

REMARK	4 XXXX COMPLIES WITH FORMAT V. 2.0									
COMPND	W:\zeph\SINDHU\DLG FILES\mutant2drug2\complex22.pdbqt									
AUTHOR	GENERATED BY OPEN BABEL 2.3.1									
ATOM	1	N	VAL	1	48.630	81.373	6.865	1.00	0.00	N
ATOM	2	HN1	VAL	1	48.831	81.592	5.889	1.00	0.00	H
ATOM	3	HN2	VAL	1	47.629	81.392	7.060	1.00	0.00	H
ATOM	4	HN3	VAL	1	48.807	80.392	7.079	1.00	0.00	H
ATOM	5	CA	VAL	1	49.384	82.279	7.763	1.00	0.00	C
ATOM	6	CB	VAL	1	48.998	83.706	7.510	1.00	0.00	C
ATOM	7	CG1	VAL	1	49.396	84.072	6.070	1.00	0.00	C
ATOM	8	CG2	VAL	1	47.497	83.873	7.804	1.00	0.00	C
ATOM	9	C	VAL	1	49.090	81.960	9.187	1.00	0.00	C
ATOM	10	O	VAL	1	48.920	80.804	9.548	1.00	0.00	O
ATOM	11	N	SER	2	49.002	82.976	10.054	1.00	0.00	N
ATOM	12	HN	SER	2	49.099	83.941	9.737	1.00	0.00	H
ATOM	13	CA	SER	2	48.769	82.681	11.435	1.00	0.00	C
ATOM	14	CB	SER	2	48.666	83.943	12.304	1.00	0.00	C
ATOM	15	OG	SER	2	48.431	83.581	13.656	1.00	0.00	O
ATOM	16	HG	SER	2	48.367	84.362	14.194	1.00	0.00	H
ATOM	17	C	SER	2	47.465	81.962	11.552	1.00	0.00	C
ATOM	18	O	SER	2	47.328	81.038	12.351	1.00	0.00	O
ATOM	19	N	VAL	3	46.457	82.356	10.752	1.00	0.00	N
ATOM	20	HN	VAL	3	46.586	83.082	10.047	1.00	0.00	H
ATOM	21	CA	VAL	3	45.198	81.707	10.939	1.00	0.00	C
ATOM	22	CB	VAL	3	44.118	82.292	10.066	1.00	0.00	C
ATOM	23	CG1	VAL	3	43.842	83.720	10.562	1.00	0.00	C
ATOM	24	CG2	VAL	3	44.560	82.264	8.592	1.00	0.00	C
ATOM	25	C	VAL	3	45.301	80.227	10.699	1.00	0.00	C
ATOM	26	O	VAL	3	45.243	79.476	11.665	1.00	0.00	O
ATOM	27	N	PHE	4	45.489	79.753	9.446	1.00	0.00	N
ATOM	28	HN	PHE	4	45.584	80.399	8.663	1.00	0.00	H
ATOM	29	CA	PHE	4	45.554	78.329	9.223	1.00	0.00	C
ATOM	30	CB	PHE	4	45.158	77.875	7.800	1.00	0.00	C
ATOM	31	CG	PHE	4	46.061	78.448	6.765	1.00	0.00	C
ATOM	32	CD1	PHE	4	47.274	77.862	6.486	1.00	0.00	C
ATOM	33	CD2	PHE	4	45.678	79.562	6.055	1.00	0.00	C
ATOM	34	CE1	PHE	4	48.101	78.389	5.522	1.00	0.00	C
ATOM	35	CE2	PHE	4	46.500	80.093	5.090	1.00	0.00	C
ATOM	36	CZ	PHE	4	47.714	79.507	4.823	1.00	0.00	C
ATOM	37	C	PHE	4	46.885	77.744	9.597	1.00	0.00	C
ATOM	38	O	PHE	4	46.954	76.690	10.228	1.00	0.00	O
ATOM	39	N	SER	5	47.985	78.411	9.199	1.00	0.00	N
ATOM	40	HN	SER	5	47.872	79.298	8.709	1.00	0.00	H
ATOM	41	CA	SER	5	49.313	77.916	9.441	1.00	0.00	C
ATOM	42	CB	SER	5	50.415	78.682	8.684	1.00	0.00	C
ATOM	43	OG	SER	5	50.264	78.498	7.285	1.00	0.00	O
ATOM	44	HG	SER	5	50.943	78.970	6.818	1.00	0.00	H
ATOM	45	C	SER	5	49.672	77.930	10.894	1.00	0.00	C
ATOM	46	O	SER	5	50.096	76.905	11.413	1.00	0.00	O
ATOM	47	N	MET	6	49.507	79.061	11.611	1.00	0.00	N
ATOM	48	HN	MET	6	49.139	79.903	11.168	1.00	0.00	H
ATOM	49	CA	MET	6	49.856	79.068	13.011	1.00	0.00	C
ATOM	50	CB	MET	6	49.609	80.419	13.709	1.00	0.00	C
ATOM	51	CG	MET	6	49.836	80.430	15.225	1.00	0.00	C
ATOM	52	SD	MET	6	51.569	80.378	15.771	1.00	0.00	S
ATOM	53	CE	MET	6	51.786	78.611	15.429	1.00	0.00	C
ATOM	54	C	MET	6	48.958	78.052	13.611	1.00	0.00	C
ATOM	55	O	MET	6	49.343	77.310	14.513	1.00	0.00	O
ATOM	56	N	PHE	7	47.739	77.967	13.051	1.00	0.00	N
ATOM	57	HN	PHE	7	47.497	78.587	12.278	1.00	0.00	H
ATOM	58	CA	PHE	7	46.778	77.022	13.521	1.00	0.00	C
ATOM	59	CB	PHE	7	45.479	76.981	12.703	1.00	0.00	C
ATOM	60	CG	PHE	7	44.479	76.112	13.386	1.00	0.00	C
ATOM	61	CD1	PHE	7	43.640	76.642	14.338	1.00	0.00	C
ATOM	62	CD2	PHE	7	44.377	74.775	13.074	1.00	0.00	C
ATOM	63	CE1	PHE	7	42.712	75.849	14.972	1.00	0.00	C
ATOM	64	CE2	PHE	7	43.450	73.978	13.704	1.00	0.00	C
ATOM	65	CZ	PHE	7	42.616	74.515	14.655	1.00	0.00	C
ATOM	66	C	PHE	7	47.385	75.673	13.376	1.00	0.00	C
ATOM	67	O	PHE	7	47.252	74.844	14.273	1.00	0.00	O
ATOM	68	N	ARG	8	48.038	75.385	12.230	1.00	0.00	N
ATOM	69	HN	ARG	8	48.097	76.051	11.460	1.00	0.00	H
ATOM	70	CA	ARG	8	48.642	74.090	12.161	1.00	0.00	C
ATOM	71	CB	ARG	8	48.159	73.220	10.989	1.00	0.00	C

ATOM	72	CG	ARG	8	46.788	72.597	11.257	1.00	0.00	C
ATOM	73	CD	ARG	8	46.405	71.474	10.293	1.00	0.00	C
ATOM	74	NE	ARG	8	45.164	70.853	10.836	1.00	0.00	N
ATOM	75	HE	ARG	8	44.830	71.121	11.762	1.00	0.00	H
ATOM	76	CZ	ARG	8	44.468	69.930	10.110	1.00	0.00	C
ATOM	77	NH1	ARG	8	44.887	69.599	8.855	1.00	0.00	N
ATOM	78	1HH1	ARG	8	45.716	70.041	8.459	1.00	0.00	H
ATOM	79	2HH1	ARG	8	44.367	68.909	8.313	1.00	0.00	H
ATOM	80	NH2	ARG	8	43.358	69.338	10.640	1.00	0.00	N
ATOM	81	1HH2	ARG	8	43.045	69.586	11.579	1.00	0.00	H
ATOM	82	2HH2	ARG	8	42.838	68.648	10.098	1.00	0.00	H
ATOM	83	C	ARG	8	50.120	74.261	12.059	1.00	0.00	C
ATOM	84	O	ARG	8	50.690	74.240	10.969	1.00	0.00	O
ATOM	85	N	TYR	9	50.784	74.387	13.223	1.00	0.00	N
ATOM	86	HN	TYR	9	50.261	74.334	14.097	1.00	0.00	H
ATOM	87	CA	TYR	9	52.201	74.593	13.274	1.00	0.00	C
ATOM	88	CB	TYR	9	52.621	75.867	14.028	1.00	0.00	C
ATOM	89	CG	TYR	9	52.438	75.630	15.489	1.00	0.00	C
ATOM	90	CD1	TYR	9	51.185	75.496	16.038	1.00	0.00	C
ATOM	91	CD2	TYR	9	53.534	75.567	16.318	1.00	0.00	C
ATOM	92	CE1	TYR	9	51.028	75.283	17.388	1.00	0.00	C
ATOM	93	CE2	TYR	9	53.385	75.355	17.667	1.00	0.00	C
ATOM	94	CZ	TYR	9	52.131	75.210	18.207	1.00	0.00	C
ATOM	95	OH	TYR	9	51.983	74.993	19.594	1.00	0.00	O
ATOM	96	HH	TYR	9	52.745	74.943	20.160	1.00	0.00	H
ATOM	97	C	TYR	9	52.730	73.427	14.058	1.00	0.00	C
ATOM	98	O	TYR	9	52.009	72.458	14.287	1.00	0.00	O
ATOM	99	N	SER	10	54.022	73.483	14.439	1.00	0.00	N
ATOM	100	HN	SER	10	54.577	74.273	14.112	1.00	0.00	H
ATOM	101	CA	SER	10	54.677	72.507	15.276	1.00	0.00	C
ATOM	102	CB	SER	10	54.258	72.618	16.753	1.00	0.00	C
ATOM	103	OG	SER	10	52.872	72.342	16.891	1.00	0.00	O
ATOM	104	HG	SER	10	52.613	72.411	17.803	1.00	0.00	H
ATOM	105	C	SER	10	54.494	71.068	14.853	1.00	0.00	C
ATOM	106	O	SER	10	53.750	70.346	15.513	1.00	0.00	O
ATOM	107	N	ASN	11	55.131	70.591	13.747	1.00	0.00	N
ATOM	108	HN	ASN	11	55.703	71.195	13.156	1.00	0.00	H
ATOM	109	CA	ASN	11	54.955	69.181	13.451	1.00	0.00	C
ATOM	110	CB	ASN	11	53.659	68.888	12.660	1.00	0.00	C
ATOM	111	CG	ASN	11	52.395	69.139	13.474	1.00	0.00	C
ATOM	112	OD1	ASN	11	52.205	68.579	14.553	1.00	0.00	O
ATOM	113	ND2	ASN	11	51.497	70.007	12.937	1.00	0.00	N
ATOM	114	1HD2	ASN	11	51.655	70.471	12.043	1.00	0.00	H
ATOM	115	2HD2	ASN	11	50.651	70.175	13.482	1.00	0.00	H
ATOM	116	C	ASN	11	56.013	68.638	12.520	1.00	0.00	C
ATOM	117	O	ASN	11	55.817	68.677	11.306	1.00	0.00	O
ATOM	118	N	TRP	12	57.159	68.114	13.012	1.00	0.00	N
ATOM	119	HN	TRP	12	57.376	68.154	14.008	1.00	0.00	H
ATOM	120	CA	TRP	12	58.062	67.497	12.072	1.00	0.00	C
ATOM	121	CB	TRP	12	59.427	67.210	12.724	1.00	0.00	C
ATOM	122	CG	TRP	12	60.447	66.532	11.840	1.00	0.00	C
ATOM	123	CD2	TRP	12	61.858	66.779	11.935	1.00	0.00	C
ATOM	124	CD1	TRP	12	60.280	65.626	10.834	1.00	0.00	C
ATOM	125	NE1	TRP	12	61.500	65.288	10.299	1.00	0.00	N
ATOM	126	HE1	TRP	12	61.654	64.628	9.537	1.00	0.00	H
ATOM	127	CE2	TRP	12	62.480	65.992	10.966	1.00	0.00	C
ATOM	128	CE3	TRP	12	62.575	67.597	12.758	1.00	0.00	C
ATOM	129	CZ2	TRP	12	63.836	66.012	10.807	1.00	0.00	C
ATOM	130	CZ3	TRP	12	63.942	67.614	12.598	1.00	0.00	C
ATOM	131	CH2	TRP	12	64.561	66.836	11.641	1.00	0.00	C
ATOM	132	C	TRP	12	57.489	66.195	11.583	1.00	0.00	C
ATOM	133	O	TRP	12	56.877	66.100	10.520	1.00	0.00	O
ATOM	134	N	LEU	13	57.583	65.171	12.450	1.00	0.00	N
ATOM	135	HN	LEU	13	57.991	65.356	13.366	1.00	0.00	H
ATOM	136	CA	LEU	13	57.146	63.837	12.167	1.00	0.00	C
ATOM	137	CB	LEU	13	57.459	62.857	13.308	1.00	0.00	C
ATOM	138	CG	LEU	13	58.964	62.690	13.578	1.00	0.00	C
ATOM	139	CD1	LEU	13	59.606	64.006	14.045	1.00	0.00	C
ATOM	140	CD2	LEU	13	59.220	61.537	14.556	1.00	0.00	C
ATOM	141	C	LEU	13	55.671	63.921	12.051	1.00	0.00	C
ATOM	142	O	LEU	13	55.030	63.087	11.414	1.00	0.00	O
ATOM	143	N	ASP	14	55.092	64.907	12.752	1.00	0.00	N
ATOM	144	HN	ASP	14	55.667	65.554	13.292	1.00	0.00	H
ATOM	145	CA	ASP	14	53.670	65.053	12.744	1.00	0.00	C

ATOM	146	CB	ASP	14	53.151	66.167	13.661	1.00	0.00	C
ATOM	147	CG	ASP	14	53.249	65.750	15.120	1.00	0.00	C
ATOM	148	OD1	ASP	14	54.034	64.817	15.438	1.00	0.00	O
ATOM	149	OD2	ASP	14	52.528	66.375	15.943	1.00	0.00	O
ATOM	150	C	ASP	14	53.183	65.390	11.370	1.00	0.00	C
ATOM	151	O	ASP	14	52.325	64.706	10.815	1.00	0.00	O
ATOM	152	N	LYS	15	53.777	66.424	10.750	1.00	0.00	N
ATOM	153	HN	LYS	15	54.566	66.894	11.195	1.00	0.00	H
ATOM	154	CA	LYS	15	53.313	66.874	9.469	1.00	0.00	C
ATOM	155	CB	LYS	15	54.184	68.009	8.906	1.00	0.00	C
ATOM	156	CG	LYS	15	53.739	68.534	7.540	1.00	0.00	C
ATOM	157	CD	LYS	15	54.447	69.829	7.135	1.00	0.00	C
ATOM	158	CE	LYS	15	54.168	70.269	5.697	1.00	0.00	C
ATOM	159	NZ	LYS	15	54.911	69.409	4.749	1.00	0.00	N
ATOM	160	HZ1	LYS	15	54.725	69.702	3.790	1.00	0.00	H
ATOM	161	HZ2	LYS	15	54.708	68.420	4.892	1.00	0.00	H
ATOM	162	HZ3	LYS	15	55.910	69.388	4.955	1.00	0.00	H
ATOM	163	C	LYS	15	53.389	65.733	8.503	1.00	0.00	C
ATOM	164	O	LYS	15	52.498	65.552	7.673	1.00	0.00	O
ATOM	165	N	LEU	16	54.464	64.933	8.573	1.00	0.00	N
ATOM	166	HN	LEU	16	55.189	65.107	9.269	1.00	0.00	H
ATOM	167	CA	LEU	16	54.587	63.831	7.661	1.00	0.00	C
ATOM	168	CB	LEU	16	55.918	63.068	7.786	1.00	0.00	C
ATOM	169	CG	LEU	16	57.143	63.822	7.236	1.00	0.00	C
ATOM	170	CD1	LEU	16	57.437	65.104	8.027	1.00	0.00	C
ATOM	171	CD2	LEU	16	58.356	62.887	7.138	1.00	0.00	C
ATOM	172	C	LEU	16	53.495	62.838	7.887	1.00	0.00	C
ATOM	173	O	LEU	16	52.861	62.381	6.938	1.00	0.00	O
ATOM	174	N	TYR	17	53.214	62.485	9.153	1.00	0.00	N
ATOM	175	HN	TYR	17	53.694	62.916	9.943	1.00	0.00	H
ATOM	176	CA	TYR	17	52.213	61.479	9.346	1.00	0.00	C
ATOM	177	CB	TYR	17	51.984	61.036	10.800	1.00	0.00	C
ATOM	178	CG	TYR	17	51.057	59.876	10.665	1.00	0.00	C
ATOM	179	CD1	TYR	17	51.558	58.653	10.283	1.00	0.00	C
ATOM	180	CD2	TYR	17	49.706	59.999	10.900	1.00	0.00	C
ATOM	181	CE1	TYR	17	50.730	57.566	10.139	1.00	0.00	C
ATOM	182	CE2	TYR	17	48.872	58.914	10.758	1.00	0.00	C
ATOM	183	CZ	TYR	17	49.384	57.696	10.376	1.00	0.00	C
ATOM	184	OH	TYR	17	48.535	56.580	10.226	1.00	0.00	O
ATOM	185	HH	TYR	17	48.889	55.739	9.962	1.00	0.00	H
ATOM	186	C	TYR	17	50.920	62.028	8.842	1.00	0.00	C
ATOM	187	O	TYR	17	50.088	61.302	8.302	1.00	0.00	O
ATOM	188	N	MET	18	50.718	63.344	9.026	1.00	0.00	N
ATOM	189	HN	MET	18	51.452	63.916	9.443	1.00	0.00	H
ATOM	190	CA	MET	18	49.479	63.947	8.641	1.00	0.00	C
ATOM	191	CB	MET	18	49.477	65.460	8.930	1.00	0.00	C
ATOM	192	CG	MET	18	48.196	66.178	8.503	1.00	0.00	C
ATOM	193	SD	MET	18	48.034	67.875	9.133	1.00	0.00	S
ATOM	194	CE	MET	18	47.420	67.358	10.762	1.00	0.00	C
ATOM	195	C	MET	18	49.215	63.760	7.176	1.00	0.00	C
ATOM	196	O	MET	18	48.170	63.233	6.795	1.00	0.00	O
ATOM	197	N	VAL	19	50.183	64.104	6.309	1.00	0.00	N
ATOM	198	HN	VAL	19	51.091	64.414	6.656	1.00	0.00	H
ATOM	199	CA	VAL	19	49.941	64.036	4.897	1.00	0.00	C
ATOM	200	CB	VAL	19	51.137	64.454	4.094	1.00	0.00	C
ATOM	201	CG1	VAL	19	51.434	65.932	4.398	1.00	0.00	C
ATOM	202	CG2	VAL	19	52.305	63.509	4.425	1.00	0.00	C
ATOM	203	C	VAL	19	49.622	62.624	4.542	1.00	0.00	C
ATOM	204	O	VAL	19	48.778	62.365	3.684	1.00	0.00	O
ATOM	205	N	VAL	20	50.302	61.669	5.198	1.00	0.00	N
ATOM	206	HN	VAL	20	50.969	61.931	5.924	1.00	0.00	H
ATOM	207	CA	VAL	20	50.099	60.285	4.887	1.00	0.00	C
ATOM	208	CB	VAL	20	50.932	59.378	5.739	1.00	0.00	C
ATOM	209	CG1	VAL	20	50.507	57.927	5.460	1.00	0.00	C
ATOM	210	CG2	VAL	20	52.417	59.657	5.448	1.00	0.00	C
ATOM	211	C	VAL	20	48.668	59.909	5.124	1.00	0.00	C
ATOM	212	O	VAL	20	48.004	59.377	4.236	1.00	0.00	O
ATOM	213	N	GLY	21	48.139	60.232	6.316	1.00	0.00	N
ATOM	214	HN	GLY	21	48.697	60.771	6.978	1.00	0.00	H
ATOM	215	CA	GLY	21	46.808	59.837	6.681	1.00	0.00	C
ATOM	216	C	GLY	21	45.834	60.431	5.721	1.00	0.00	C
ATOM	217	O	GLY	21	44.822	59.812	5.393	1.00	0.00	O
ATOM	218	N	THR	22	46.107	61.660	5.250	1.00	0.00	N
ATOM	219	HN	THR	22	46.965	62.138	5.527	1.00	0.00	H

ATOM	220	CA	THR	22	45.186	62.292	4.358	1.00	0.00	C
ATOM	221	CB	THR	22	45.675	63.619	3.855	1.00	0.00	C
ATOM	222	OG1	THR	22	45.945	64.487	4.945	1.00	0.00	O
ATOM	223	HG1	THR	22	46.254	65.327	4.627	1.00	0.00	H
ATOM	224	CG2	THR	22	44.585	64.229	2.956	1.00	0.00	C
ATOM	225	C	THR	22	45.039	61.392	3.174	1.00	0.00	C
ATOM	226	O	THR	22	43.926	61.083	2.755	1.00	0.00	O
ATOM	227	N	LEU	23	46.168	60.865	2.669	1.00	0.00	N
ATOM	228	HN	LEU	23	47.055	61.034	3.143	1.00	0.00	H
ATOM	229	CA	LEU	23	46.147	60.069	1.476	1.00	0.00	C
ATOM	230	CB	LEU	23	47.548	59.519	1.121	1.00	0.00	C
ATOM	231	CG	LEU	23	47.709	58.815	-0.251	1.00	0.00	C
ATOM	232	CD1	LEU	23	49.158	58.338	-0.433	1.00	0.00	C
ATOM	233	CD2	LEU	23	46.715	57.666	-0.495	1.00	0.00	C
ATOM	234	C	LEU	23	45.233	58.908	1.702	1.00	0.00	C
ATOM	235	O	LEU	23	44.412	58.591	0.841	1.00	0.00	O
ATOM	236	N	ALA	24	45.318	58.265	2.881	1.00	0.00	N
ATOM	237	HN	ALA	24	45.953	58.608	3.601	1.00	0.00	H
ATOM	238	CA	ALA	24	44.519	57.099	3.130	1.00	0.00	C
ATOM	239	CB	ALA	24	44.686	56.561	4.562	1.00	0.00	C
ATOM	240	C	ALA	24	43.092	57.498	2.970	1.00	0.00	C
ATOM	241	O	ALA	24	42.289	56.764	2.396	1.00	0.00	O
ATOM	242	N	ALA	25	42.750	58.708	3.441	1.00	0.00	N
ATOM	243	HN	ALA	25	43.457	59.313	3.859	1.00	0.00	H
ATOM	244	CA	ALA	25	41.391	59.147	3.355	1.00	0.00	C
ATOM	245	CB	ALA	25	41.187	60.560	3.926	1.00	0.00	C
ATOM	246	C	ALA	25	40.992	59.179	1.915	1.00	0.00	C
ATOM	247	O	ALA	25	39.909	58.726	1.544	1.00	0.00	O
ATOM	248	N	ILE	26	41.887	59.674	1.049	1.00	0.00	N
ATOM	249	HN	ILE	26	42.820	59.935	1.368	1.00	0.00	H
ATOM	250	CA	ILE	26	41.526	59.834	-0.326	1.00	0.00	C
ATOM	251	CB	ILE	26	42.664	60.423	-1.093	1.00	0.00	C
ATOM	252	CG1	ILE	26	42.989	61.798	-0.490	1.00	0.00	C
ATOM	253	CG2	ILE	26	42.291	60.461	-2.583	1.00	0.00	C
ATOM	254	CD1	ILE	26	44.376	62.310	-0.849	1.00	0.00	C
ATOM	255	C	ILE	26	41.169	58.504	-0.925	1.00	0.00	C
ATOM	256	O	ILE	26	40.075	58.334	-1.459	1.00	0.00	O
ATOM	257	N	ILE	27	42.037	57.492	-0.763	1.00	0.00	N
ATOM	258	HN	ILE	27	42.862	57.632	-0.180	1.00	0.00	H
ATOM	259	CA	ILE	27	41.830	56.215	-1.393	1.00	0.00	C
ATOM	260	CB	ILE	27	42.912	55.228	-1.063	1.00	0.00	C
ATOM	261	CG1	ILE	27	42.915	54.894	0.438	1.00	0.00	C
ATOM	262	CG2	ILE	27	44.240	55.820	-1.559	1.00	0.00	C
ATOM	263	CD1	ILE	27	43.788	53.690	0.790	1.00	0.00	C
ATOM	264	C	ILE	27	40.535	55.636	-0.916	1.00	0.00	C
ATOM	265	O	ILE	27	39.802	55.014	-1.684	1.00	0.00	O
ATOM	266	N	HIS	28	40.229	55.818	0.379	1.00	0.00	N
ATOM	267	HN	HIS	28	40.863	56.366	0.960	1.00	0.00	H
ATOM	268	CA	HIS	28	39.045	55.272	0.977	1.00	0.00	C
ATOM	269	ND1	HIS	28	37.364	53.698	3.031	1.00	0.00	N
ATOM	270	HD1	HIS	28	37.740	53.002	2.387	1.00	0.00	H
ATOM	271	CG	HIS	28	37.821	54.985	3.209	1.00	0.00	C
ATOM	272	CB	HIS	28	38.989	55.584	2.483	1.00	0.00	C
ATOM	273	NE2	HIS	28	36.072	54.622	4.588	1.00	0.00	N
ATOM	274	HE2	HIS	28	35.345	54.759	5.290	1.00	0.00	H
ATOM	275	CD2	HIS	28	37.022	55.533	4.165	1.00	0.00	C
ATOM	276	CE1	HIS	28	36.317	53.535	3.879	1.00	0.00	C
ATOM	277	C	HIS	28	37.804	55.804	0.302	1.00	0.00	C
ATOM	278	O	HIS	28	36.900	55.032	-0.023	1.00	0.00	O
ATOM	279	N	GLY	29	37.727	57.128	0.045	1.00	0.00	N
ATOM	280	HN	GLY	29	38.511	57.737	0.281	1.00	0.00	H
ATOM	281	CA	GLY	29	36.542	57.685	-0.561	1.00	0.00	C
ATOM	282	C	GLY	29	36.375	57.054	-1.892	1.00	0.00	C
ATOM	283	O	GLY	29	35.274	56.678	-2.285	1.00	0.00	O
ATOM	284	N	ALA	30	37.494	56.878	-2.603	1.00	0.00	N
ATOM	285	HN	ALA	30	38.390	57.161	-2.207	1.00	0.00	H
ATOM	286	CA	ALA	30	37.453	56.300	-3.908	1.00	0.00	C
ATOM	287	CB	ALA	30	38.847	56.112	-4.529	1.00	0.00	C
ATOM	288	C	ALA	30	36.834	54.944	-3.766	1.00	0.00	C
ATOM	289	O	ALA	30	36.150	54.466	-4.669	1.00	0.00	O
ATOM	290	N	GLY	31	37.061	54.279	-2.620	1.00	0.00	N
ATOM	291	HN	GLY	31	37.590	54.723	-1.869	1.00	0.00	H
ATOM	292	CA	GLY	31	36.560	52.946	-2.453	1.00	0.00	C
ATOM	293	C	GLY	31	35.062	52.915	-2.609	1.00	0.00	C

ATOM	294	O	GLY	31	34.532	52.051	-3.304	1.00	0.00	O
ATOM	295	N	LEU	32	34.328	53.868	-2.003	1.00	0.00	N
ATOM	296	HN	LEU	32	34.790	54.636	-1.516	1.00	0.00	H
ATOM	297	CA	LEU	32	32.888	53.802	-2.043	1.00	0.00	C
ATOM	298	CB	LEU	32	32.200	54.914	-1.229	1.00	0.00	C
ATOM	299	CG	LEU	32	32.286	54.700	0.291	1.00	0.00	C
ATOM	300	CD1	LEU	32	31.446	53.483	0.703	1.00	0.00	C
ATOM	301	CD2	LEU	32	33.741	54.603	0.775	1.00	0.00	C
ATOM	302	C	LEU	32	32.353	53.841	-3.447	1.00	0.00	C
ATOM	303	O	LEU	32	31.476	53.043	-3.775	1.00	0.00	O
ATOM	304	N	PRO	33	32.781	54.730	-4.295	1.00	0.00	N
ATOM	305	CA	PRO	33	32.288	54.702	-5.644	1.00	0.00	C
ATOM	306	CD	PRO	33	33.053	56.087	-3.883	1.00	0.00	C
ATOM	307	CB	PRO	33	32.654	56.053	-6.256	1.00	0.00	C
ATOM	308	CG	PRO	33	33.500	56.760	-5.180	1.00	0.00	C
ATOM	309	C	PRO	33	32.771	53.552	-6.457	1.00	0.00	C
ATOM	310	O	PRO	33	32.045	53.099	-7.341	1.00	0.00	O
ATOM	311	N	LEU	34	33.994	53.068	-6.193	1.00	0.00	N
ATOM	312	HN	LEU	34	34.563	53.470	-5.448	1.00	0.00	H
ATOM	313	CA	LEU	34	34.485	51.977	-6.977	1.00	0.00	C
ATOM	314	CB	LEU	34	35.898	51.531	-6.569	1.00	0.00	C
ATOM	315	CG	LEU	34	36.970	52.610	-6.811	1.00	0.00	C
ATOM	316	CD1	LEU	34	38.372	52.094	-6.451	1.00	0.00	C
ATOM	317	CD2	LEU	34	36.886	53.175	-8.239	1.00	0.00	C
ATOM	318	C	LEU	34	33.550	50.860	-6.699	1.00	0.00	C
ATOM	319	O	LEU	34	33.134	50.128	-7.597	1.00	0.00	O
ATOM	320	N	MET	35	33.136	50.771	-5.425	1.00	0.00	N
ATOM	321	HN	MET	35	33.457	51.465	-4.749	1.00	0.00	H
ATOM	322	CA	MET	35	32.261	49.735	-4.991	1.00	0.00	C
ATOM	323	CB	MET	35	31.860	49.872	-3.513	1.00	0.00	C
ATOM	324	CG	MET	35	31.004	48.708	-3.009	1.00	0.00	C
ATOM	325	SD	MET	35	31.900	47.138	-2.819	1.00	0.00	S
ATOM	326	CE	MET	35	32.795	47.635	-1.319	1.00	0.00	C
ATOM	327	C	MET	35	31.019	49.846	-5.818	1.00	0.00	C
ATOM	328	O	MET	35	30.411	48.836	-6.167	1.00	0.00	O
ATOM	329	N	MET	36	30.589	51.079	-6.148	1.00	0.00	N
ATOM	330	HN	MET	36	31.098	51.909	-5.844	1.00	0.00	H
ATOM	331	CA	MET	36	29.397	51.196	-6.938	1.00	0.00	C
ATOM	332	CB	MET	36	29.008	52.654	-7.230	1.00	0.00	C
ATOM	333	CG	MET	36	28.481	53.406	-6.008	1.00	0.00	C
ATOM	334	SD	MET	36	26.874	52.810	-5.398	1.00	0.00	S
ATOM	335	CE	MET	36	27.504	51.266	-4.680	1.00	0.00	C
ATOM	336	C	MET	36	29.594	50.521	-8.260	1.00	0.00	C
ATOM	337	O	MET	36	28.821	49.642	-8.637	1.00	0.00	O
ATOM	338	N	LEU	37	30.701	50.837	-8.954	1.00	0.00	N
ATOM	339	HN	LEU	37	31.416	51.425	-8.524	1.00	0.00	H
ATOM	340	CA	LEU	37	30.888	50.356	-10.294	1.00	0.00	C
ATOM	341	CB	LEU	37	32.232	50.821	-10.887	1.00	0.00	C
ATOM	342	CG	LEU	37	32.386	50.600	-12.407	1.00	0.00	C
ATOM	343	CD1	LEU	37	32.397	49.116	-12.797	1.00	0.00	C
ATOM	344	CD2	LEU	37	31.337	51.410	-13.184	1.00	0.00	C
ATOM	345	C	LEU	37	30.866	48.856	-10.296	1.00	0.00	C
ATOM	346	O	LEU	37	30.198	48.246	-11.131	1.00	0.00	O
ATOM	347	N	VAL	38	31.560	48.217	-9.335	1.00	0.00	N
ATOM	348	HN	VAL	38	32.036	48.756	-8.611	1.00	0.00	H
ATOM	349	CA	VAL	38	31.635	46.783	-9.321	1.00	0.00	C
ATOM	350	CB	VAL	38	32.454	46.239	-8.184	1.00	0.00	C
ATOM	351	CG1	VAL	38	33.881	46.805	-8.294	1.00	0.00	C
ATOM	352	CG2	VAL	38	31.746	46.544	-6.856	1.00	0.00	C
ATOM	353	C	VAL	38	30.248	46.256	-9.187	1.00	0.00	C
ATOM	354	O	VAL	38	29.890	45.256	-9.806	1.00	0.00	O
ATOM	355	N	PHE	39	29.413	46.955	-8.401	1.00	0.00	N
ATOM	356	HN	PHE	39	29.752	47.798	-7.938	1.00	0.00	H
ATOM	357	CA	PHE	39	28.057	46.543	-8.199	1.00	0.00	C
ATOM	358	CB	PHE	39	27.276	47.571	-7.356	1.00	0.00	C
ATOM	359	CG	PHE	39	25.817	47.268	-7.407	1.00	0.00	C
ATOM	360	CD1	PHE	39	25.271	46.283	-6.619	1.00	0.00	C
ATOM	361	CD2	PHE	39	24.993	47.972	-8.258	1.00	0.00	C
ATOM	362	CE1	PHE	39	23.924	46.009	-6.674	1.00	0.00	C
ATOM	363	CE2	PHE	39	23.646	47.705	-8.317	1.00	0.00	C
ATOM	364	CZ	PHE	39	23.109	46.720	-7.522	1.00	0.00	C
ATOM	365	C	PHE	39	27.441	46.451	-9.558	1.00	0.00	C
ATOM	366	O	PHE	39	26.653	45.548	-9.829	1.00	0.00	O
ATOM	367	N	GLY	40	27.778	47.395	-10.452	1.00	0.00	N

ATOM	368	HN	GLY	40	28.441	48.127	-10.197	1.00	0.00	H
ATOM	369	CA	GLY	40	27.203	47.371	-11.765	1.00	0.00	C
ATOM	370	C	GLY	40	27.620	46.182	-12.577	1.00	0.00	C
ATOM	371	O	GLY	40	26.776	45.497	-13.148	1.00	0.00	O
ATOM	372	N	GLU	41	28.925	45.877	-12.635	1.00	0.00	N
ATOM	373	HN	GLU	41	29.596	46.395	-12.068	1.00	0.00	H
ATOM	374	CA	GLU	41	29.376	44.819	-13.497	1.00	0.00	C
ATOM	375	CB	GLU	41	30.906	44.669	-13.502	1.00	0.00	C
ATOM	376	CG	GLU	41	31.611	45.871	-14.133	1.00	0.00	C
ATOM	377	CD	GLU	41	33.110	45.622	-14.088	1.00	0.00	C
ATOM	378	OE1	GLU	41	33.509	44.461	-13.808	1.00	0.00	O
ATOM	379	OE2	GLU	41	33.877	46.591	-14.336	1.00	0.00	O
ATOM	380	C	GLU	41	28.769	43.533	-13.045	1.00	0.00	C
ATOM	381	O	GLU	41	28.420	42.677	-13.858	1.00	0.00	O
ATOM	382	N	MET	42	28.635	43.348	-11.724	1.00	0.00	N
ATOM	383	HN	MET	42	28.951	44.056	-11.061	1.00	0.00	H
ATOM	384	CA	MET	42	28.038	42.132	-11.270	1.00	0.00	C
ATOM	385	CB	MET	42	28.008	41.988	-9.738	1.00	0.00	C
ATOM	386	CG	MET	42	27.058	42.954	-9.028	1.00	0.00	C
ATOM	387	SD	MET	42	27.012	42.760	-7.219	1.00	0.00	S
ATOM	388	CE	MET	42	28.698	43.371	-6.934	1.00	0.00	C
ATOM	389	C	MET	42	26.628	42.134	-11.765	1.00	0.00	C
ATOM	390	O	MET	42	26.098	41.106	-12.183	1.00	0.00	O
ATOM	391	N	THR	43	25.994	43.320	-11.739	1.00	0.00	N
ATOM	392	HN	THR	43	26.509	44.137	-11.412	1.00	0.00	H
ATOM	393	CA	THR	43	24.631	43.493	-12.147	1.00	0.00	C
ATOM	394	CB	THR	43	24.154	44.909	-11.982	1.00	0.00	C
ATOM	395	OG1	THR	43	24.210	45.298	-10.618	1.00	0.00	O
ATOM	396	HG1	THR	43	25.099	45.229	-10.289	1.00	0.00	H
ATOM	397	CG2	THR	43	22.716	45.020	-12.514	1.00	0.00	C
ATOM	398	C	THR	43	24.478	43.174	-13.606	1.00	0.00	C
ATOM	399	O	THR	43	23.484	42.568	-14.003	1.00	0.00	O
ATOM	400	N	ASP	44	25.436	43.596	-14.457	1.00	0.00	N
ATOM	401	HN	ASP	44	26.262	44.078	-14.102	1.00	0.00	H
ATOM	402	CA	ASP	44	25.286	43.362	-15.868	1.00	0.00	C
ATOM	403	CB	ASP	44	26.401	43.986	-16.729	1.00	0.00	C
ATOM	404	CG	ASP	44	26.074	45.452	-16.970	1.00	0.00	C
ATOM	405	OD1	ASP	44	24.859	45.777	-17.056	1.00	0.00	O
ATOM	406	OD2	ASP	44	27.032	46.263	-17.086	1.00	0.00	O
ATOM	407	C	ASP	44	25.265	41.898	-16.175	1.00	0.00	C
ATOM	408	O	ASP	44	24.394	41.423	-16.902	1.00	0.00	O
ATOM	409	N	ILE	45	26.200	41.125	-15.601	1.00	0.00	N
ATOM	410	HN	ILE	45	26.876	41.526	-14.951	1.00	0.00	H
ATOM	411	CA	ILE	45	26.235	39.725	-15.916	1.00	0.00	C
ATOM	412	CB	ILE	45	27.343	38.953	-15.272	1.00	0.00	C
ATOM	413	CG1	ILE	45	27.396	37.556	-15.916	1.00	0.00	C
ATOM	414	CG2	ILE	45	27.129	38.954	-13.750	1.00	0.00	C
ATOM	415	CD1	ILE	45	28.681	36.780	-15.642	1.00	0.00	C
ATOM	416	C	ILE	45	24.928	39.143	-15.477	1.00	0.00	C
ATOM	417	O	ILE	45	24.409	38.196	-16.066	1.00	0.00	O
ATOM	418	N	PHE	46	24.384	39.720	-14.397	1.00	0.00	N
ATOM	419	HN	PHE	46	24.897	40.500	-13.986	1.00	0.00	H
ATOM	420	CA	PHE	46	23.153	39.350	-13.762	1.00	0.00	C
ATOM	421	CB	PHE	46	22.917	40.300	-12.571	1.00	0.00	C
ATOM	422	CG	PHE	46	21.734	39.935	-11.745	1.00	0.00	C
ATOM	423	CD1	PHE	46	21.815	38.913	-10.830	1.00	0.00	C
ATOM	424	CD2	PHE	46	20.560	40.645	-11.855	1.00	0.00	C
ATOM	425	CE1	PHE	46	20.731	38.584	-10.053	1.00	0.00	C
ATOM	426	CE2	PHE	46	19.471	40.322	-11.081	1.00	0.00	C
ATOM	427	CZ	PHE	46	19.557	39.288	-10.180	1.00	0.00	C
ATOM	428	C	PHE	46	22.029	39.505	-14.752	1.00	0.00	C
ATOM	429	O	PHE	46	21.118	38.677	-14.815	1.00	0.00	O
ATOM	430	N	ALA	47	22.040	40.610	-15.520	1.00	0.00	N
ATOM	431	HN	ALA	47	22.792	41.289	-15.404	1.00	0.00	H
ATOM	432	CA	ALA	47	21.020	40.857	-16.498	1.00	0.00	C
ATOM	433	CB	ALA	47	21.135	42.252	-17.139	1.00	0.00	C
ATOM	434	C	ALA	47	21.102	39.852	-17.601	1.00	0.00	C
ATOM	435	O	ALA	47	20.080	39.315	-18.013	1.00	0.00	O
ATOM	436	N	ASN	48	22.320	39.543	-18.091	1.00	0.00	N
ATOM	437	HN	ASN	48	23.150	39.940	-17.651	1.00	0.00	H
ATOM	438	CA	ASN	48	22.474	38.665	-19.223	1.00	0.00	C
ATOM	439	CB	ASN	48	23.952	38.443	-19.596	1.00	0.00	C
ATOM	440	CG	ASN	48	24.017	37.796	-20.974	1.00	0.00	C
ATOM	441	OD1	ASN	48	23.030	37.766	-21.706	1.00	0.00	O

ATOM	442	ND2	ASN	48	25.214	37.263	-21.341	1.00	0.00	N
ATOM	443	1HD2	ASN	48	26.033	37.288	-20.734	1.00	0.00	H
ATOM	444	2HD2	ASN	48	25.258	36.830	-22.263	1.00	0.00	H
ATOM	445	C	ASN	48	21.902	37.326	-18.881	1.00	0.00	C
ATOM	446	O	ASN	48	21.171	36.729	-19.672	1.00	0.00	O
ATOM	447	N	ALA	49	22.221	36.819	-17.678	1.00	0.00	N
ATOM	448	HN	ALA	49	22.818	37.353	-17.046	1.00	0.00	H
ATOM	449	CA	ALA	49	21.729	35.535	-17.276	1.00	0.00	C
ATOM	450	CB	ALA	49	22.235	35.110	-15.887	1.00	0.00	C
ATOM	451	C	ALA	49	20.237	35.616	-17.207	1.00	0.00	C
ATOM	452	O	ALA	49	19.514	34.704	-17.601	1.00	0.00	O
ATOM	453	N	GLY	50	19.726	36.732	-16.682	1.00	0.00	N
ATOM	454	HN	GLY	50	20.352	37.468	-16.354	1.00	0.00	H
ATOM	455	CA	GLY	50	18.313	36.907	-16.575	1.00	0.00	C
ATOM	456	C	GLY	50	17.715	36.996	-17.945	1.00	0.00	C
ATOM	457	O	GLY	50	16.555	36.663	-18.133	1.00	0.00	O
ATOM	458	N	ASN	51	18.447	37.543	-18.925	1.00	0.00	N
ATOM	459	HN	ASN	51	19.403	37.830	-18.716	1.00	0.00	H
ATOM	460	CA	ASN	51	17.947	37.743	-20.252	1.00	0.00	C
ATOM	461	CB	ASN	51	18.926	38.560	-21.113	1.00	0.00	C
ATOM	462	CG	ASN	51	18.220	38.995	-22.388	1.00	0.00	C
ATOM	463	OD1	ASN	51	17.748	38.169	-23.167	1.00	0.00	O
ATOM	464	ND2	ASN	51	18.143	40.335	-22.607	1.00	0.00	N
ATOM	465	1HD2	ASN	51	18.535	41.020	-21.961	1.00	0.00	H
ATOM	466	2HD2	ASN	51	17.670	40.627	-23.462	1.00	0.00	H
ATOM	467	C	ASN	51	17.752	36.428	-20.922	1.00	0.00	C
ATOM	468	O	ASN	51	16.718	36.176	-21.535	1.00	0.00	O
ATOM	469	N	LEU	52	18.772	35.558	-20.871	1.00	0.00	N
ATOM	470	HN	LEU	52	19.648	35.797	-20.406	1.00	0.00	H
ATOM	471	CA	LEU	52	18.588	34.287	-21.490	1.00	0.00	C
ATOM	472	CB	LEU	52	19.890	33.477	-21.589	1.00	0.00	C
ATOM	473	CG	LEU	52	19.703	32.104	-22.256	1.00	0.00	C
ATOM	474	CD1	LEU	52	19.254	32.252	-23.718	1.00	0.00	C
ATOM	475	CD2	LEU	52	20.963	31.238	-22.104	1.00	0.00	C
ATOM	476	C	LEU	52	17.625	33.499	-20.668	1.00	0.00	C
ATOM	477	O	LEU	52	16.751	32.808	-21.190	1.00	0.00	O
ATOM	478	N	GLU	53	17.846	33.485	-19.341	1.00	0.00	N
ATOM	479	HN	GLU	53	18.612	34.021	-18.932	1.00	0.00	H
ATOM	480	CA	GLU	53	16.980	32.699	-18.518	1.00	0.00	C
ATOM	481	CB	GLU	53	17.674	32.206	-17.249	1.00	0.00	C
ATOM	482	CG	GLU	53	16.873	31.150	-16.505	1.00	0.00	C
ATOM	483	CD	GLU	53	16.924	29.866	-17.322	1.00	0.00	C
ATOM	484	OE1	GLU	53	16.227	29.804	-18.370	1.00	0.00	O
ATOM	485	OE2	GLU	53	17.662	28.932	-16.908	1.00	0.00	O
ATOM	486	C	GLU	53	15.737	33.331	-18.052	1.00	0.00	C
ATOM	487	O	GLU	53	14.659	32.956	-18.495	1.00	0.00	O
ATOM	488	N	ASP	54	15.901	34.352	-17.180	1.00	0.00	N
ATOM	489	HN	ASP	54	16.860	34.679	-17.059	1.00	0.00	H
ATOM	490	CA	ASP	54	14.901	35.043	-16.396	1.00	0.00	C
ATOM	491	CB	ASP	54	14.062	36.090	-17.160	1.00	0.00	C
ATOM	492	CG	ASP	54	13.252	36.962	-16.212	1.00	0.00	C
ATOM	493	OD1	ASP	54	13.656	37.092	-15.026	1.00	0.00	O
ATOM	494	OD2	ASP	54	12.217	37.516	-16.670	1.00	0.00	O
ATOM	495	C	ASP	54	13.954	34.061	-15.773	1.00	0.00	C
ATOM	496	O	ASP	54	13.943	32.869	-16.075	1.00	0.00	O
ATOM	497	N	LEU	55	13.151	34.534	-14.804	1.00	0.00	N
ATOM	498	HN	LEU	55	13.271	35.475	-14.430	1.00	0.00	H
ATOM	499	CA	LEU	55	12.128	33.672	-14.321	1.00	0.00	C
ATOM	500	CB	LEU	55	11.201	34.338	-13.291	1.00	0.00	C
ATOM	501	CG	LEU	55	10.092	33.397	-12.781	1.00	0.00	C
ATOM	502	CD1	LEU	55	10.683	32.199	-12.023	1.00	0.00	C
ATOM	503	CD2	LEU	55	9.031	34.161	-11.971	1.00	0.00	C
ATOM	504	C	LEU	55	11.331	33.434	-15.551	1.00	0.00	C
ATOM	505	O	LEU	55	10.910	32.315	-15.841	1.00	0.00	O
ATOM	506	N	MET	56	11.147	34.515	-16.332	1.00	0.00	N
ATOM	507	HN	MET	56	11.490	35.430	-16.039	1.00	0.00	H
ATOM	508	CA	MET	56	10.467	34.364	-17.572	1.00	0.00	C
ATOM	509	CB	MET	56	9.143	35.141	-17.592	1.00	0.00	C
ATOM	510	CG	MET	56	8.133	34.618	-16.570	1.00	0.00	C
ATOM	511	SD	MET	56	6.732	35.732	-16.262	1.00	0.00	S
ATOM	512	CE	MET	56	7.640	36.810	-15.116	1.00	0.00	C
ATOM	513	C	MET	56	11.326	34.937	-18.661	1.00	0.00	C
ATOM	514	O	MET	56	10.904	35.863	-19.351	1.00	0.00	O
ATOM	515	N	SER	57	12.559	34.421	-18.866	1.00	0.00	N

ATOM	516	HN	SER	57	12.976	33.731	-18.241	1.00	0.00	H
ATOM	517	CA	SER	57	13.234	34.916	-20.025	1.00	0.00	C
ATOM	518	CB	SER	57	14.681	35.360	-19.918	1.00	0.00	C
ATOM	519	OG	SER	57	14.645	36.775	-19.805	1.00	0.00	O
ATOM	520	HG	SER	57	15.551	37.053	-19.738	1.00	0.00	H
ATOM	521	C	SER	57	13.083	33.981	-21.157	1.00	0.00	C
ATOM	522	O	SER	57	12.004	33.429	-21.360	1.00	0.00	O
ATOM	523	N	ASN	58	14.166	33.825	-21.947	1.00	0.00	N
ATOM	524	HN	ASN	58	15.048	34.269	-21.691	1.00	0.00	H
ATOM	525	CA	ASN	58	14.086	33.041	-23.140	1.00	0.00	C
ATOM	526	CB	ASN	58	15.464	32.839	-23.796	1.00	0.00	C
ATOM	527	CG	ASN	58	15.263	32.226	-25.172	1.00	0.00	C
ATOM	528	OD1	ASN	58	14.140	32.122	-25.663	1.00	0.00	O
ATOM	529	ND2	ASN	58	16.384	31.798	-25.812	1.00	0.00	N
ATOM	530	1HD2	ASN	58	16.249	31.387	-26.736	1.00	0.00	H
ATOM	531	2HD2	ASN	58	17.315	31.884	-25.405	1.00	0.00	H
ATOM	532	C	ASN	58	13.554	31.690	-22.782	1.00	0.00	C
ATOM	533	O	ASN	58	12.438	31.378	-23.198	1.00	0.00	O
ATOM	534	N	ILE	59	14.282	30.920	-21.925	1.00	0.00	N
ATOM	535	HN	ILE	59	15.166	31.297	-21.582	1.00	0.00	H
ATOM	536	CA	ILE	59	13.887	29.600	-21.466	1.00	0.00	C
ATOM	537	CB	ILE	59	12.970	29.639	-20.253	1.00	0.00	C
ATOM	538	CG1	ILE	59	13.570	30.576	-19.212	1.00	0.00	C
ATOM	539	CG2	ILE	59	12.851	28.249	-19.594	1.00	0.00	C
ATOM	540	CD1	ILE	59	12.623	30.904	-18.058	1.00	0.00	C
ATOM	541	C	ILE	59	13.236	28.851	-22.612	1.00	0.00	C
ATOM	542	O	ILE	59	13.474	29.153	-23.780	1.00	0.00	O
ATOM	543	N	THR	60	12.543	27.737	-22.309	1.00	0.00	N
ATOM	544	HN	THR	60	12.583	27.399	-21.347	1.00	0.00	H
ATOM	545	CA	THR	60	11.753	26.994	-23.246	1.00	0.00	C
ATOM	546	CB	THR	60	10.514	27.711	-23.721	1.00	0.00	C
ATOM	547	OG1	THR	60	9.691	26.810	-24.443	1.00	0.00	O
ATOM	548	HG1	THR	60	9.461	26.074	-23.888	1.00	0.00	H
ATOM	549	CG2	THR	60	10.886	28.902	-24.619	1.00	0.00	C
ATOM	550	C	THR	60	12.601	26.636	-24.407	1.00	0.00	C
ATOM	551	O	THR	60	12.129	26.541	-25.538	1.00	0.00	O
ATOM	552	N	ASN	61	13.896	26.416	-24.130	1.00	0.00	N
ATOM	553	HN	ASN	61	14.230	26.516	-23.171	1.00	0.00	H
ATOM	554	CA	ASN	61	14.811	26.044	-25.158	1.00	0.00	C
ATOM	555	CB	ASN	61	15.537	27.233	-25.812	1.00	0.00	C
ATOM	556	CG	ASN	61	14.537	27.946	-26.717	1.00	0.00	C
ATOM	557	OD1	ASN	61	13.767	27.308	-27.434	1.00	0.00	O
ATOM	558	ND2	ASN	61	14.543	29.306	-26.685	1.00	0.00	N
ATOM	559	1HD2	ASN	61	15.181	29.835	-26.091	1.00	0.00	H
ATOM	560	2HD2	ASN	61	13.874	29.783	-27.290	1.00	0.00	H
ATOM	561	C	ASN	61	15.826	25.148	-24.525	1.00	0.00	C
ATOM	562	O	ASN	61	15.558	24.496	-23.516	1.00	0.00	O
ATOM	563	N	ARG	62	17.029	25.107	-25.125	1.00	0.00	N
ATOM	564	HN	ARG	62	17.197	25.728	-25.916	1.00	0.00	H
ATOM	565	CA	ARG	62	18.087	24.233	-24.708	1.00	0.00	C
ATOM	566	CB	ARG	62	19.403	24.629	-25.393	1.00	0.00	C
ATOM	567	CG	ARG	62	19.234	24.777	-26.906	1.00	0.00	C
ATOM	568	CD	ARG	62	20.277	25.684	-27.561	1.00	0.00	C
ATOM	569	NE	ARG	62	19.894	25.839	-28.994	1.00	0.00	N
ATOM	570	HE	ARG	62	20.323	25.240	-29.700	1.00	0.00	H
ATOM	571	CZ	ARG	62	18.973	26.776	-29.370	1.00	0.00	C
ATOM	572	NH1	ARG	62	18.379	27.576	-28.437	1.00	0.00	N
ATOM	573	1HH1	ARG	62	17.692	28.275	-28.718	1.00	0.00	H
ATOM	574	2HH1	ARG	62	18.628	27.475	-27.453	1.00	0.00	H
ATOM	575	NH2	ARG	62	18.640	26.911	-30.687	1.00	0.00	N
ATOM	576	1HH2	ARG	62	17.953	27.610	-30.968	1.00	0.00	H
ATOM	577	2HH2	ARG	62	19.084	26.313	-31.384	1.00	0.00	H
ATOM	578	C	ARG	62	18.282	24.401	-23.230	1.00	0.00	C
ATOM	579	O	ARG	62	18.797	25.415	-22.765	1.00	0.00	O
ATOM	580	N	SER	63	17.874	23.378	-22.453	1.00	0.00	N
ATOM	581	HN	SER	63	17.474	22.554	-22.902	1.00	0.00	H
ATOM	582	CA	SER	63	17.977	23.396	-21.021	1.00	0.00	C
ATOM	583	CB	SER	63	17.262	22.202	-20.365	1.00	0.00	C
ATOM	584	OG	SER	63	17.395	22.266	-18.953	1.00	0.00	O
ATOM	585	HG	SER	63	16.954	21.529	-18.548	1.00	0.00	H
ATOM	586	C	SER	63	19.417	23.319	-20.609	1.00	0.00	C
ATOM	587	O	SER	63	19.861	24.042	-19.717	1.00	0.00	O
ATOM	588	N	ASP	64	20.192	22.443	-21.277	1.00	0.00	N
ATOM	589	HN	ASP	64	19.798	21.942	-22.073	1.00	0.00	H

ATOM	590	CA	ASP	64	21.555	22.193	-20.904	1.00	0.00	C
ATOM	591	CB	ASP	64	22.234	21.118	-21.774	1.00	0.00	C
ATOM	592	CG	ASP	64	22.295	21.613	-23.214	1.00	0.00	C
ATOM	593	OD1	ASP	64	21.311	22.258	-23.665	1.00	0.00	O
ATOM	594	OD2	ASP	64	23.332	21.355	-23.882	1.00	0.00	O
ATOM	595	C	ASP	64	22.351	23.447	-21.045	1.00	0.00	C
ATOM	596	O	ASP	64	23.196	23.752	-20.206	1.00	0.00	O
ATOM	597	N	ILE	65	22.088	24.220	-22.110	1.00	0.00	N
ATOM	598	HN	ILE	65	21.346	23.953	-22.757	1.00	0.00	H
ATOM	599	CA	ILE	65	22.838	25.415	-22.346	1.00	0.00	C
ATOM	600	CB	ILE	65	22.483	26.138	-23.619	1.00	0.00	C
ATOM	601	CG1	ILE	65	23.557	27.189	-23.953	1.00	0.00	C
ATOM	602	CG2	ILE	65	21.084	26.749	-23.460	1.00	0.00	C
ATOM	603	CD1	ILE	65	24.908	26.589	-24.337	1.00	0.00	C
ATOM	604	C	ILE	65	22.579	26.336	-21.203	1.00	0.00	C
ATOM	605	O	ILE	65	23.427	27.153	-20.863	1.00	0.00	O
ATOM	606	N	ASN	66	21.359	26.290	-20.639	1.00	0.00	N
ATOM	607	HN	ASN	66	20.665	25.644	-21.016	1.00	0.00	H
ATOM	608	CA	ASN	66	21.002	27.120	-19.525	1.00	0.00	C
ATOM	609	CB	ASN	66	19.502	27.030	-19.200	1.00	0.00	C
ATOM	610	CG	ASN	66	18.750	27.568	-20.408	1.00	0.00	C
ATOM	611	OD1	ASN	66	17.796	26.956	-20.885	1.00	0.00	O
ATOM	612	ND2	ASN	66	19.194	28.745	-20.926	1.00	0.00	N
ATOM	613	1HD2	ASN	66	18.690	29.106	-21.736	1.00	0.00	H
ATOM	614	2HD2	ASN	66	19.985	29.253	-20.530	1.00	0.00	H
ATOM	615	C	ASN	66	21.769	26.703	-18.307	1.00	0.00	C
ATOM	616	O	ASN	66	22.246	27.536	-17.540	1.00	0.00	O
ATOM	617	N	ASP	67	21.911	25.390	-18.070	1.00	0.00	N
ATOM	618	HN	ASP	67	21.528	24.692	-18.707	1.00	0.00	H
ATOM	619	CA	ASP	67	22.622	25.006	-16.887	1.00	0.00	C
ATOM	620	CB	ASP	67	22.579	23.486	-16.595	1.00	0.00	C
ATOM	621	CG	ASP	67	23.237	22.656	-17.694	1.00	0.00	C
ATOM	622	OD1	ASP	67	24.479	22.759	-17.880	1.00	0.00	O
ATOM	623	OD2	ASP	67	22.498	21.873	-18.349	1.00	0.00	O
ATOM	624	C	ASP	67	24.038	25.463	-17.018	1.00	0.00	C
ATOM	625	O	ASP	67	24.643	25.912	-16.046	1.00	0.00	O
ATOM	626	N	THR	68	24.611	25.341	-18.231	1.00	0.00	N
ATOM	627	HN	THR	68	24.062	24.979	-19.011	1.00	0.00	H
ATOM	628	CA	THR	68	25.980	25.711	-18.444	1.00	0.00	C
ATOM	629	CB	THR	68	26.552	25.204	-19.741	1.00	0.00	C
ATOM	630	OG1	THR	68	27.949	25.455	-19.779	1.00	0.00	O
ATOM	631	HG1	THR	68	28.378	25.033	-19.044	1.00	0.00	H
ATOM	632	CG2	THR	68	25.857	25.887	-20.930	1.00	0.00	C
ATOM	633	C	THR	68	26.170	27.193	-18.403	1.00	0.00	C
ATOM	634	O	THR	68	27.080	27.684	-17.739	1.00	0.00	O
ATOM	635	N	GLY	69	25.302	27.957	-19.091	1.00	0.00	N
ATOM	636	HN	GLY	69	24.498	27.535	-19.556	1.00	0.00	H
ATOM	637	CA	GLY	69	25.521	29.369	-19.162	1.00	0.00	C
ATOM	638	C	GLY	69	25.436	29.942	-17.786	1.00	0.00	C
ATOM	639	O	GLY	69	26.228	30.805	-17.412	1.00	0.00	O
ATOM	640	N	PHE	70	24.435	29.487	-17.012	1.00	0.00	N
ATOM	641	HN	PHE	70	23.840	28.740	-17.371	1.00	0.00	H
ATOM	642	CA	PHE	70	24.169	30.008	-15.704	1.00	0.00	C
ATOM	643	CB	PHE	70	22.758	29.654	-15.231	1.00	0.00	C
ATOM	644	CG	PHE	70	21.969	30.546	-16.116	1.00	0.00	C
ATOM	645	CD1	PHE	70	21.737	30.203	-17.427	1.00	0.00	C
ATOM	646	CD2	PHE	70	21.492	31.741	-15.644	1.00	0.00	C
ATOM	647	CE1	PHE	70	21.033	31.011	-18.276	1.00	0.00	C
ATOM	648	CE2	PHE	70	20.785	32.560	-16.484	1.00	0.00	C
ATOM	649	CZ	PHE	70	20.558	32.195	-17.791	1.00	0.00	C
ATOM	650	C	PHE	70	25.195	29.648	-14.682	1.00	0.00	C
ATOM	651	O	PHE	70	25.676	30.506	-13.946	1.00	0.00	O
ATOM	652	N	PHE	71	25.601	28.375	-14.631	1.00	0.00	N
ATOM	653	HN	PHE	71	25.226	27.700	-15.297	1.00	0.00	H
ATOM	654	CA	PHE	71	26.555	27.948	-13.653	1.00	0.00	C
ATOM	655	CB	PHE	71	26.911	26.465	-13.836	1.00	0.00	C
ATOM	656	CG	PHE	71	27.430	25.917	-12.554	1.00	0.00	C
ATOM	657	CD1	PHE	71	28.664	26.270	-12.065	1.00	0.00	C
ATOM	658	CD2	PHE	71	26.665	25.012	-11.854	1.00	0.00	C
ATOM	659	CE1	PHE	71	29.109	25.732	-10.879	1.00	0.00	C
ATOM	660	CE2	PHE	71	27.107	24.474	-10.671	1.00	0.00	C
ATOM	661	CZ	PHE	71	28.336	24.838	-10.179	1.00	0.00	C
ATOM	662	C	PHE	71	27.773	28.752	-13.968	1.00	0.00	C
ATOM	663	O	PHE	71	28.553	29.112	-13.088	1.00	0.00	O

ATOM	664	N	MET	72	27.961	29.030	-15.271	1.00	0.00	N
ATOM	665	HN	MET	72	27.271	28.712	-15.952	1.00	0.00	H
ATOM	666	CA	MET	72	29.106	29.762	-15.727	1.00	0.00	C
ATOM	667	CB	MET	72	29.088	29.945	-17.258	1.00	0.00	C
ATOM	668	CG	MET	72	30.264	30.740	-17.836	1.00	0.00	C
ATOM	669	SD	MET	72	30.136	32.547	-17.648	1.00	0.00	S
ATOM	670	CE	MET	72	31.535	32.927	-18.741	1.00	0.00	C
ATOM	671	C	MET	72	29.155	31.128	-15.111	1.00	0.00	C
ATOM	672	O	MET	72	30.115	31.461	-14.420	1.00	0.00	O
ATOM	673	N	ASN	73	28.097	31.941	-15.289	1.00	0.00	N
ATOM	674	HN	ASN	73	27.275	31.603	-15.790	1.00	0.00	H
ATOM	675	CA	ASN	73	28.121	33.283	-14.776	1.00	0.00	C
ATOM	676	CB	ASN	73	26.986	34.180	-15.314	1.00	0.00	C
ATOM	677	CG	ASN	73	25.633	33.596	-14.938	1.00	0.00	C
ATOM	678	OD1	ASN	73	25.246	32.531	-15.416	1.00	0.00	O
ATOM	679	ND2	ASN	73	24.884	34.320	-14.064	1.00	0.00	N
ATOM	680	1HD2	ASN	73	25.205	35.203	-13.668	1.00	0.00	H
ATOM	681	2HD2	ASN	73	23.977	33.928	-13.812	1.00	0.00	H
ATOM	682	C	ASN	73	28.047	33.233	-13.286	1.00	0.00	C
ATOM	683	O	ASN	73	28.555	34.118	-12.598	1.00	0.00	O
ATOM	684	N	LEU	74	27.376	32.201	-12.745	1.00	0.00	N
ATOM	685	HN	LEU	74	26.981	31.475	-13.342	1.00	0.00	H
ATOM	686	CA	LEU	74	27.221	32.130	-11.322	1.00	0.00	C
ATOM	687	CB	LEU	74	26.480	30.842	-10.902	1.00	0.00	C
ATOM	688	CG	LEU	74	26.224	30.615	-9.391	1.00	0.00	C
ATOM	689	CD1	LEU	74	25.247	29.453	-9.187	1.00	0.00	C
ATOM	690	CD2	LEU	74	27.501	30.341	-8.582	1.00	0.00	C
ATOM	691	C	LEU	74	28.565	32.067	-10.693	1.00	0.00	C
ATOM	692	O	LEU	74	28.970	32.961	-9.952	1.00	0.00	O
ATOM	693	N	GLU	75	29.323	31.018	-11.033	1.00	0.00	N
ATOM	694	HN	GLU	75	29.004	30.363	-11.746	1.00	0.00	H
ATOM	695	CA	GLU	75	30.582	30.824	-10.389	1.00	0.00	C
ATOM	696	CB	GLU	75	31.292	29.555	-10.859	1.00	0.00	C
ATOM	697	CG	GLU	75	30.487	28.309	-10.534	1.00	0.00	C
ATOM	698	CD	GLU	75	30.303	28.253	-9.026	1.00	0.00	C
ATOM	699	OE1	GLU	75	31.038	28.986	-8.311	1.00	0.00	O
ATOM	700	OE2	GLU	75	29.420	27.479	-8.569	1.00	0.00	O
ATOM	701	C	GLU	75	31.468	31.952	-10.763	1.00	0.00	C
ATOM	702	O	GLU	75	32.207	32.470	-9.928	1.00	0.00	O
ATOM	703	N	GLU	76	31.402	32.368	-12.041	1.00	0.00	N
ATOM	704	HN	GLU	76	30.694	31.991	-12.670	1.00	0.00	H
ATOM	705	CA	GLU	76	32.337	33.346	-12.507	1.00	0.00	C
ATOM	706	CB	GLU	76	32.209	33.644	-14.015	1.00	0.00	C
ATOM	707	CG	GLU	76	30.974	34.452	-14.419	1.00	0.00	C
ATOM	708	CD	GLU	76	31.364	35.923	-14.370	1.00	0.00	C
ATOM	709	OE1	GLU	76	32.410	36.266	-14.982	1.00	0.00	O
ATOM	710	OE2	GLU	76	30.634	36.720	-13.722	1.00	0.00	O
ATOM	711	C	GLU	76	32.179	34.633	-11.757	1.00	0.00	C
ATOM	712	O	GLU	76	33.150	35.174	-11.233	1.00	0.00	O
ATOM	713	N	ASP	77	30.946	35.151	-11.649	1.00	0.00	N
ATOM	714	HN	ASP	77	30.154	34.659	-12.063	1.00	0.00	H
ATOM	715	CA	ASP	77	30.730	36.389	-10.958	1.00	0.00	C
ATOM	716	CB	ASP	77	29.277	36.883	-11.066	1.00	0.00	C
ATOM	717	CG	ASP	77	29.203	38.292	-10.494	1.00	0.00	C
ATOM	718	OD1	ASP	77	30.281	38.864	-10.178	1.00	0.00	O
ATOM	719	OD2	ASP	77	28.065	38.820	-10.372	1.00	0.00	O
ATOM	720	C	ASP	77	31.017	36.131	-9.523	1.00	0.00	C
ATOM	721	O	ASP	77	31.354	37.041	-8.774	1.00	0.00	O
ATOM	722	N	MET	78	30.857	34.869	-9.095	1.00	0.00	N
ATOM	723	HN	MET	78	30.576	34.145	-9.756	1.00	0.00	H
ATOM	724	CA	MET	78	31.075	34.527	-7.723	1.00	0.00	C
ATOM	725	CB	MET	78	30.756	33.051	-7.433	1.00	0.00	C
ATOM	726	CG	MET	78	30.719	32.696	-5.947	1.00	0.00	C
ATOM	727	SD	MET	78	29.908	31.106	-5.603	1.00	0.00	S
ATOM	728	CE	MET	78	28.229	31.771	-5.802	1.00	0.00	C
ATOM	729	C	MET	78	32.508	34.796	-7.396	1.00	0.00	C
ATOM	730	O	MET	78	32.819	35.253	-6.297	1.00	0.00	O
ATOM	731	N	THR	79	33.432	34.499	-8.334	1.00	0.00	N
ATOM	732	HN	THR	79	33.159	34.070	-9.218	1.00	0.00	H
ATOM	733	CA	THR	79	34.805	34.800	-8.058	1.00	0.00	C
ATOM	734	CB	THR	79	35.785	34.357	-9.109	1.00	0.00	C
ATOM	735	OG1	THR	79	35.559	35.038	-10.333	1.00	0.00	O
ATOM	736	HG1	THR	79	35.639	35.977	-10.211	1.00	0.00	H
ATOM	737	CG2	THR	79	35.656	32.843	-9.306	1.00	0.00	C

ATOM	738	C	THR	79	34.911	36.283	-7.985	1.00	0.00	C
ATOM	739	O	THR	79	35.565	36.823	-7.096	1.00	0.00	O
ATOM	740	N	ARG	80	34.210	36.972	-8.905	1.00	0.00	N
ATOM	741	HN	ARG	80	33.614	36.453	-9.550	1.00	0.00	H
ATOM	742	CA	ARG	80	34.260	38.399	-9.022	1.00	0.00	C
ATOM	743	CB	ARG	80	33.300	38.942	-10.093	1.00	0.00	C
ATOM	744	CG	ARG	80	33.674	38.567	-11.526	1.00	0.00	C
ATOM	745	CD	ARG	80	32.699	39.126	-12.565	1.00	0.00	C
ATOM	746	NE	ARG	80	33.271	38.840	-13.908	1.00	0.00	N
ATOM	747	HE	ARG	80	32.964	38.023	-14.436	1.00	0.00	H
ATOM	748	CZ	ARG	80	34.211	39.683	-14.426	1.00	0.00	C
ATOM	749	NH1	ARG	80	34.635	40.757	-13.699	1.00	0.00	N
ATOM	750	1HH1	ARG	80	35.338	41.387	-14.086	1.00	0.00	H
ATOM	751	2HH1	ARG	80	34.245	40.933	-12.773	1.00	0.00	H
ATOM	752	NH2	ARG	80	34.733	39.448	-15.666	1.00	0.00	N
ATOM	753	1HH2	ARG	80	35.436	40.078	-16.053	1.00	0.00	H
ATOM	754	2HH2	ARG	80	34.416	38.645	-16.209	1.00	0.00	H
ATOM	755	C	ARG	80	33.824	39.002	-7.725	1.00	0.00	C
ATOM	756	O	ARG	80	34.417	39.972	-7.256	1.00	0.00	O
ATOM	757	N	TYR	81	32.771	38.442	-7.106	1.00	0.00	N
ATOM	758	HN	TYR	81	32.317	37.626	-7.516	1.00	0.00	H
ATOM	759	CA	TYR	81	32.284	38.984	-5.876	1.00	0.00	C
ATOM	760	CB	TYR	81	31.108	38.201	-5.253	1.00	0.00	C
ATOM	761	CG	TYR	81	29.879	38.265	-6.099	1.00	0.00	C
ATOM	762	CD1	TYR	81	29.158	39.432	-6.223	1.00	0.00	C
ATOM	763	CD2	TYR	81	29.419	37.135	-6.738	1.00	0.00	C
ATOM	764	CE1	TYR	81	28.017	39.478	-6.992	1.00	0.00	C
ATOM	765	CE2	TYR	81	28.280	37.173	-7.507	1.00	0.00	C
ATOM	766	CZ	TYR	81	27.577	38.347	-7.638	1.00	0.00	C
ATOM	767	OH	TYR	81	26.407	38.387	-8.427	1.00	0.00	O
ATOM	768	HH	TYR	81	25.921	39.198	-8.518	1.00	0.00	H
ATOM	769	C	TYR	81	33.393	38.874	-4.882	1.00	0.00	C
ATOM	770	O	TYR	81	33.710	39.827	-4.174	1.00	0.00	O
ATOM	771	N	ALA	82	34.052	37.703	-4.842	1.00	0.00	N
ATOM	772	HN	ALA	82	33.835	36.974	-5.521	1.00	0.00	H
ATOM	773	CA	ALA	82	35.058	37.477	-3.849	1.00	0.00	C
ATOM	774	CB	ALA	82	35.724	36.097	-3.985	1.00	0.00	C
ATOM	775	C	ALA	82	36.132	38.507	-4.000	1.00	0.00	C
ATOM	776	O	ALA	82	36.561	39.111	-3.020	1.00	0.00	O
ATOM	777	N	TYR	83	36.565	38.774	-5.243	1.00	0.00	N
ATOM	778	HN	TYR	83	36.130	38.313	-6.042	1.00	0.00	H
ATOM	779	CA	TYR	83	37.634	39.703	-5.451	1.00	0.00	C
ATOM	780	CB	TYR	83	37.975	39.959	-6.932	1.00	0.00	C
ATOM	781	CG	TYR	83	38.250	38.689	-7.659	1.00	0.00	C
ATOM	782	CD1	TYR	83	39.397	37.959	-7.449	1.00	0.00	C
ATOM	783	CD2	TYR	83	37.347	38.253	-8.599	1.00	0.00	C
ATOM	784	CE1	TYR	83	39.617	36.797	-8.152	1.00	0.00	C
ATOM	785	CE2	TYR	83	37.560	37.094	-9.304	1.00	0.00	C
ATOM	786	CZ	TYR	83	38.698	36.361	-9.078	1.00	0.00	C
ATOM	787	OH	TYR	83	38.927	35.169	-9.797	1.00	0.00	O
ATOM	788	HH	TYR	83	39.715	34.662	-9.641	1.00	0.00	H
ATOM	789	C	TYR	83	37.173	41.039	-4.966	1.00	0.00	C
ATOM	790	O	TYR	83	37.961	41.804	-4.417	1.00	0.00	O
ATOM	791	N	TYR	84	35.896	41.393	-5.216	1.00	0.00	N
ATOM	792	HN	TYR	84	35.235	40.731	-5.622	1.00	0.00	H
ATOM	793	CA	TYR	84	35.500	42.734	-4.891	1.00	0.00	C
ATOM	794	CB	TYR	84	34.205	43.245	-5.566	1.00	0.00	C
ATOM	795	CG	TYR	84	32.954	42.903	-4.829	1.00	0.00	C
ATOM	796	CD1	TYR	84	32.544	43.685	-3.772	1.00	0.00	C
ATOM	797	CD2	TYR	84	32.167	41.845	-5.210	1.00	0.00	C
ATOM	798	CE1	TYR	84	31.385	43.400	-3.088	1.00	0.00	C
ATOM	799	CE2	TYR	84	31.007	41.552	-4.532	1.00	0.00	C
ATOM	800	CZ	TYR	84	30.615	42.327	-3.468	1.00	0.00	C
ATOM	801	OH	TYR	84	29.424	42.025	-2.774	1.00	0.00	O
ATOM	802	HH	TYR	84	29.153	42.561	-2.038	1.00	0.00	H
ATOM	803	C	TYR	84	35.420	42.981	-3.415	1.00	0.00	C
ATOM	804	O	TYR	84	35.947	43.981	-2.933	1.00	0.00	O
ATOM	805	N	TYR	85	34.786	42.084	-2.636	1.00	0.00	N
ATOM	806	HN	TYR	85	34.383	41.232	-3.026	1.00	0.00	H
ATOM	807	CA	TYR	85	34.702	42.377	-1.237	1.00	0.00	C
ATOM	808	CB	TYR	85	33.888	41.381	-0.400	1.00	0.00	C
ATOM	809	CG	TYR	85	34.641	40.113	-0.205	1.00	0.00	C
ATOM	810	CD1	TYR	85	34.568	39.090	-1.120	1.00	0.00	C
ATOM	811	CD2	TYR	85	35.416	39.951	0.921	1.00	0.00	C

ATOM	812	CE1	TYR	85	35.268	37.924	-0.914	1.00	0.00	C
ATOM	813	CE2	TYR	85	36.117	38.788	1.131	1.00	0.00	C
ATOM	814	CZ	TYR	85	36.043	37.772	0.210	1.00	0.00	C
ATOM	815	OH	TYR	85	36.759	36.576	0.419	1.00	0.00	O
ATOM	816	HH	TYR	85	37.295	36.471	1.196	1.00	0.00	H
ATOM	817	C	TYR	85	36.095	42.364	-0.723	1.00	0.00	C
ATOM	818	O	TYR	85	36.450	43.148	0.151	1.00	0.00	O
ATOM	819	N	SER	86	36.928	41.447	-1.242	1.00	0.00	N
ATOM	820	HN	SER	86	36.612	40.813	-1.976	1.00	0.00	H
ATOM	821	CA	SER	86	38.265	41.378	-0.745	1.00	0.00	C
ATOM	822	CB	SER	86	39.099	40.231	-1.349	1.00	0.00	C
ATOM	823	OG	SER	86	39.343	40.438	-2.732	1.00	0.00	O
ATOM	824	HG	SER	86	39.857	39.731	-3.104	1.00	0.00	H
ATOM	825	C	SER	86	38.981	42.673	-0.976	1.00	0.00	C
ATOM	826	O	SER	86	39.271	43.382	-0.016	1.00	0.00	O
ATOM	827	N	GLY	87	39.192	43.070	-2.249	1.00	0.00	N
ATOM	828	HN	GLY	87	38.755	42.559	-3.016	1.00	0.00	H
ATOM	829	CA	GLY	87	40.027	44.206	-2.534	1.00	0.00	C
ATOM	830	C	GLY	87	39.515	45.420	-1.825	1.00	0.00	C
ATOM	831	O	GLY	87	40.293	46.153	-1.216	1.00	0.00	O
ATOM	832	N	ILE	88	38.199	45.686	-1.891	1.00	0.00	N
ATOM	833	HN	ILE	88	37.570	45.073	-2.410	1.00	0.00	H
ATOM	834	CA	ILE	88	37.696	46.848	-1.217	1.00	0.00	C
ATOM	835	CB	ILE	88	36.246	47.107	-1.511	1.00	0.00	C
ATOM	836	CG1	ILE	88	36.041	47.376	-3.010	1.00	0.00	C
ATOM	837	CG2	ILE	88	35.772	48.258	-0.604	1.00	0.00	C
ATOM	838	CD1	ILE	88	36.788	48.610	-3.513	1.00	0.00	C
ATOM	839	C	ILE	88	37.788	46.660	0.266	1.00	0.00	C
ATOM	840	O	ILE	88	38.422	47.443	0.968	1.00	0.00	O
ATOM	841	N	GLY	89	37.230	45.547	0.770	1.00	0.00	N
ATOM	842	HN	GLY	89	36.902	44.821	0.133	1.00	0.00	H
ATOM	843	CA	GLY	89	37.085	45.357	2.184	1.00	0.00	C
ATOM	844	C	GLY	89	38.408	45.406	2.866	1.00	0.00	C
ATOM	845	O	GLY	89	38.582	46.151	3.829	1.00	0.00	O
ATOM	846	N	ALA	90	39.392	44.642	2.368	1.00	0.00	N
ATOM	847	HN	ALA	90	39.232	44.061	1.545	1.00	0.00	H
ATOM	848	CA	ALA	90	40.669	44.657	3.010	1.00	0.00	C
ATOM	849	CB	ALA	90	41.698	43.751	2.314	1.00	0.00	C
ATOM	850	C	ALA	90	41.148	46.058	2.894	1.00	0.00	C
ATOM	851	O	ALA	90	41.694	46.626	3.839	1.00	0.00	O
ATOM	852	N	GLY	91	40.877	46.674	1.730	1.00	0.00	N
ATOM	853	HN	GLY	91	40.315	46.209	1.017	1.00	0.00	H
ATOM	854	CA	GLY	91	41.387	47.987	1.507	1.00	0.00	C
ATOM	855	C	GLY	91	40.897	48.926	2.567	1.00	0.00	C
ATOM	856	O	GLY	91	41.697	49.569	3.238	1.00	0.00	O
ATOM	857	N	VAL	92	39.578	48.975	2.810	1.00	0.00	N
ATOM	858	HN	VAL	92	38.955	48.325	2.330	1.00	0.00	H
ATOM	859	CA	VAL	92	39.029	49.928	3.735	1.00	0.00	C
ATOM	860	CB	VAL	92	37.561	49.715	3.938	1.00	0.00	C
ATOM	861	CG1	VAL	92	37.046	50.763	4.931	1.00	0.00	C
ATOM	862	CG2	VAL	92	36.867	49.714	2.574	1.00	0.00	C
ATOM	863	C	VAL	92	39.642	49.736	5.078	1.00	0.00	C
ATOM	864	O	VAL	92	40.141	50.693	5.666	1.00	0.00	O
ATOM	865	N	LEU	93	39.683	48.479	5.568	1.00	0.00	N
ATOM	866	HN	LEU	93	39.407	47.698	4.973	1.00	0.00	H
ATOM	867	CA	LEU	93	40.108	48.226	6.911	1.00	0.00	C
ATOM	868	CB	LEU	93	40.195	46.719	7.224	1.00	0.00	C
ATOM	869	CG	LEU	93	40.621	46.406	8.670	1.00	0.00	C
ATOM	870	CD1	LEU	93	39.536	46.838	9.670	1.00	0.00	C
ATOM	871	CD2	LEU	93	41.033	44.934	8.833	1.00	0.00	C
ATOM	872	C	LEU	93	41.479	48.802	7.102	1.00	0.00	C
ATOM	873	O	LEU	93	41.717	49.527	8.068	1.00	0.00	O
ATOM	874	N	VAL	94	42.410	48.542	6.164	1.00	0.00	N
ATOM	875	HN	VAL	94	42.176	47.994	5.336	1.00	0.00	H
ATOM	876	CA	VAL	94	43.738	49.052	6.354	1.00	0.00	C
ATOM	877	CB	VAL	94	44.724	48.564	5.326	1.00	0.00	C
ATOM	878	CG1	VAL	94	44.840	47.038	5.462	1.00	0.00	C
ATOM	879	CG2	VAL	94	44.298	49.027	3.923	1.00	0.00	C
ATOM	880	C	VAL	94	43.751	50.560	6.343	1.00	0.00	C
ATOM	881	O	VAL	94	44.300	51.183	7.250	1.00	0.00	O
ATOM	882	N	ALA	95	43.139	51.186	5.318	1.00	0.00	N
ATOM	883	HN	ALA	95	42.628	50.617	4.643	1.00	0.00	H
ATOM	884	CA	ALA	95	43.166	52.615	5.122	1.00	0.00	C
ATOM	885	CB	ALA	95	42.580	53.032	3.763	1.00	0.00	C

ATOM	886	C	ALA	95	42.414	53.373	6.173	1.00	0.00	C
ATOM	887	O	ALA	95	42.821	54.472	6.550	1.00	0.00	O
ATOM	888	N	ALA	96	41.263	52.841	6.627	1.00	0.00	N
ATOM	889	HN	ALA	96	40.960	51.927	6.290	1.00	0.00	H
ATOM	890	CA	ALA	96	40.459	53.550	7.581	1.00	0.00	C
ATOM	891	CB	ALA	96	39.172	52.795	7.955	1.00	0.00	C
ATOM	892	C	ALA	96	41.263	53.711	8.823	1.00	0.00	C
ATOM	893	O	ALA	96	41.419	54.820	9.336	1.00	0.00	O
ATOM	894	N	TYR	97	41.888	52.604	9.263	1.00	0.00	N
ATOM	895	HN	TYR	97	41.809	51.741	8.726	1.00	0.00	H
ATOM	896	CA	TYR	97	42.660	52.609	10.465	1.00	0.00	C
ATOM	897	CB	TYR	97	43.354	51.263	10.735	1.00	0.00	C
ATOM	898	CG	TYR	97	44.335	51.484	11.832	1.00	0.00	C
ATOM	899	CD1	TYR	97	43.930	51.603	13.142	1.00	0.00	C
ATOM	900	CD2	TYR	97	45.676	51.562	11.537	1.00	0.00	C
ATOM	901	CE1	TYR	97	44.852	51.810	14.143	1.00	0.00	C
ATOM	902	CE2	TYR	97	46.601	51.768	12.530	1.00	0.00	C
ATOM	903	CZ	TYR	97	46.190	51.894	13.835	1.00	0.00	C
ATOM	904	OH	TYR	97	47.146	52.107	14.849	1.00	0.00	O
ATOM	905	HH	TYR	97	46.862	52.194	15.751	1.00	0.00	H
ATOM	906	C	TYR	97	43.707	53.657	10.300	1.00	0.00	C
ATOM	907	O	TYR	97	44.058	54.350	11.253	1.00	0.00	O
ATOM	908	N	ILE	98	44.245	53.787	9.075	1.00	0.00	N
ATOM	909	HN	ILE	98	43.918	53.190	8.315	1.00	0.00	H
ATOM	910	CA	ILE	98	45.273	54.755	8.824	1.00	0.00	C
ATOM	911	CB	ILE	98	45.802	54.684	7.421	1.00	0.00	C
ATOM	912	CG1	ILE	98	46.440	53.310	7.168	1.00	0.00	C
ATOM	913	CG2	ILE	98	46.777	55.857	7.217	1.00	0.00	C
ATOM	914	CD1	ILE	98	47.599	53.003	8.115	1.00	0.00	C
ATOM	915	C	ILE	98	44.753	56.155	9.034	1.00	0.00	C
ATOM	916	O	ILE	98	45.376	56.942	9.743	1.00	0.00	O
ATOM	917	N	GLN	99	43.570	56.490	8.476	1.00	0.00	N
ATOM	918	HN	GLN	99	43.039	55.770	7.986	1.00	0.00	H
ATOM	919	CA	GLN	99	43.026	57.826	8.545	1.00	0.00	C
ATOM	920	CB	GLN	99	41.574	57.908	8.027	1.00	0.00	C
ATOM	921	CG	GLN	99	41.314	57.390	6.614	1.00	0.00	C
ATOM	922	CD	GLN	99	39.806	57.452	6.365	1.00	0.00	C
ATOM	923	OE1	GLN	99	39.277	56.744	5.510	1.00	0.00	O
ATOM	924	NE2	GLN	99	39.089	58.317	7.132	1.00	0.00	N
ATOM	925	1HE2	GLN	99	39.528	58.904	7.841	1.00	0.00	H
ATOM	926	2HE2	GLN	99	38.083	58.358	6.966	1.00	0.00	H
ATOM	927	C	GLN	99	42.860	58.209	9.985	1.00	0.00	C
ATOM	928	O	GLN	99	43.012	59.367	10.360	1.00	0.00	O
ATOM	929	N	VAL	100	42.448	57.257	10.828	1.00	0.00	N
ATOM	930	HN	VAL	100	42.291	56.312	10.478	1.00	0.00	H
ATOM	931	CA	VAL	100	42.223	57.541	12.217	1.00	0.00	C
ATOM	932	CB	VAL	100	41.564	56.399	12.933	1.00	0.00	C
ATOM	933	CG1	VAL	100	41.361	56.789	14.408	1.00	0.00	C
ATOM	934	CG2	VAL	100	40.271	56.030	12.186	1.00	0.00	C
ATOM	935	C	VAL	100	43.531	57.817	12.897	1.00	0.00	C
ATOM	936	O	VAL	100	43.612	58.639	13.811	1.00	0.00	O
ATOM	937	N	SER	101	44.598	57.108	12.484	1.00	0.00	N
ATOM	938	HN	SER	101	44.491	56.426	11.733	1.00	0.00	H
ATOM	939	CA	SER	101	45.883	57.302	13.089	1.00	0.00	C
ATOM	940	CB	SER	101	46.963	56.375	12.512	1.00	0.00	C
ATOM	941	OG	SER	101	46.639	55.019	12.782	1.00	0.00	O
ATOM	942	HG	SER	101	47.307	54.446	12.425	1.00	0.00	H
ATOM	943	C	SER	101	46.282	58.713	12.798	1.00	0.00	C
ATOM	944	O	SER	101	47.074	59.319	13.521	1.00	0.00	O
ATOM	945	N	PHE	102	45.741	59.261	11.695	1.00	0.00	N
ATOM	946	HN	PHE	102	45.143	58.686	11.101	1.00	0.00	H
ATOM	947	CA	PHE	102	45.977	60.624	11.327	1.00	0.00	C
ATOM	948	CB	PHE	102	45.152	61.016	10.081	1.00	0.00	C
ATOM	949	CG	PHE	102	45.272	62.435	9.613	1.00	0.00	C
ATOM	950	CD1	PHE	102	45.001	63.505	10.436	1.00	0.00	C
ATOM	951	CD2	PHE	102	45.674	62.701	8.327	1.00	0.00	C
ATOM	952	CE1	PHE	102	45.096	64.802	10.001	1.00	0.00	C
ATOM	953	CE2	PHE	102	45.772	63.997	7.877	1.00	0.00	C
ATOM	954	CZ	PHE	102	45.480	65.051	8.709	1.00	0.00	C
ATOM	955	C	PHE	102	45.428	61.439	12.445	1.00	0.00	C
ATOM	956	O	PHE	102	46.143	62.230	13.056	1.00	0.00	O
ATOM	957	N	TRP	103	44.148	61.185	12.784	1.00	0.00	N
ATOM	958	HN	TRP	103	43.676	60.371	12.390	1.00	0.00	H
ATOM	959	CA	TRP	103	43.443	62.039	13.688	1.00	0.00	C

ATOM	960	CB	TRP	103	42.044	61.476	14.036	1.00	0.00	C
ATOM	961	CG	TRP	103	41.243	62.222	15.086	1.00	0.00	C
ATOM	962	CD2	TRP	103	39.840	62.522	14.961	1.00	0.00	C
ATOM	963	CD1	TRP	103	41.641	62.753	16.280	1.00	0.00	C
ATOM	964	NE1	TRP	103	40.577	63.354	16.908	1.00	0.00	N
ATOM	965	HE1	TRP	103	40.606	63.818	17.816	1.00	0.00	H
ATOM	966	CE2	TRP	103	39.464	63.224	16.106	1.00	0.00	C
ATOM	967	CE3	TRP	103	38.943	62.250	13.966	1.00	0.00	C
ATOM	968	CZ2	TRP	103	38.181	63.665	16.273	1.00	0.00	C
ATOM	969	CZ3	TRP	103	37.647	62.684	14.145	1.00	0.00	C
ATOM	970	CH2	TRP	103	37.273	63.379	15.276	1.00	0.00	C
ATOM	971	C	TRP	103	44.210	62.254	14.953	1.00	0.00	C
ATOM	972	O	TRP	103	44.722	63.347	15.182	1.00	0.00	O
ATOM	973	N	CYS	104	44.387	61.212	15.769	1.00	0.00	N
ATOM	974	HN	CYS	104	44.098	60.276	15.485	1.00	0.00	H
ATOM	975	CA	CYS	104	44.988	61.430	17.047	1.00	0.00	C
ATOM	976	CB	CYS	104	44.781	60.258	18.010	1.00	0.00	C
ATOM	977	SG	CYS	104	43.034	59.991	18.433	1.00	0.00	S
ATOM	978	C	CYS	104	46.438	61.735	17.020	1.00	0.00	C
ATOM	979	O	CYS	104	46.855	62.602	17.780	1.00	0.00	O
ATOM	980	N	LEU	105	47.245	61.056	16.173	1.00	0.00	N
ATOM	981	HN	LEU	105	46.859	60.401	15.494	1.00	0.00	H
ATOM	982	CA	LEU	105	48.661	61.283	16.256	1.00	0.00	C
ATOM	983	CB	LEU	105	49.468	60.522	15.191	1.00	0.00	C
ATOM	984	CG	LEU	105	49.515	59.005	15.435	1.00	0.00	C
ATOM	985	CD1	LEU	105	50.339	58.284	14.356	1.00	0.00	C
ATOM	986	CD2	LEU	105	50.013	58.703	16.859	1.00	0.00	C
ATOM	987	C	LEU	105	48.879	62.735	16.035	1.00	0.00	C
ATOM	988	O	LEU	105	49.526	63.404	16.842	1.00	0.00	O
ATOM	989	N	ALA	106	48.246	63.276	14.986	1.00	0.00	N
ATOM	990	HN	ALA	106	47.637	62.719	14.387	1.00	0.00	H
ATOM	991	CA	ALA	106	48.460	64.663	14.744	1.00	0.00	C
ATOM	992	CB	ALA	106	47.794	65.126	13.439	1.00	0.00	C
ATOM	993	C	ALA	106	47.918	65.533	15.841	1.00	0.00	C
ATOM	994	O	ALA	106	48.676	66.086	16.633	1.00	0.00	O
ATOM	995	N	ALA	107	46.591	65.523	16.046	1.00	0.00	N
ATOM	996	HN	ALA	107	46.017	64.838	15.554	1.00	0.00	H
ATOM	997	CA	ALA	107	45.958	66.453	16.942	1.00	0.00	C
ATOM	998	CB	ALA	107	44.440	66.234	17.048	1.00	0.00	C
ATOM	999	C	ALA	107	46.538	66.276	18.303	1.00	0.00	C
ATOM	1000	O	ALA	107	46.751	67.239	19.037	1.00	0.00	O
ATOM	1001	N	GLY	108	46.848	65.028	18.666	1.00	0.00	N
ATOM	1002	HN	GLY	108	46.753	64.256	18.006	1.00	0.00	H
ATOM	1003	CA	GLY	108	47.314	64.795	19.993	1.00	0.00	C
ATOM	1004	C	GLY	108	48.561	65.589	20.265	1.00	0.00	C
ATOM	1005	O	GLY	108	48.569	66.444	21.149	1.00	0.00	O
ATOM	1006	N	ARG	109	49.621	65.404	19.457	1.00	0.00	N
ATOM	1007	HN	ARG	109	49.542	64.796	18.642	1.00	0.00	H
ATOM	1008	CA	ARG	109	50.865	66.065	19.746	1.00	0.00	C
ATOM	1009	CB	ARG	109	51.989	65.630	18.791	1.00	0.00	C
ATOM	1010	CG	ARG	109	52.358	64.153	18.954	1.00	0.00	C
ATOM	1011	CD	ARG	109	53.488	63.684	18.035	1.00	0.00	C
ATOM	1012	NE	ARG	109	53.820	62.281	18.410	1.00	0.00	N
ATOM	1013	HE	ARG	109	53.369	61.503	17.929	1.00	0.00	H
ATOM	1014	CZ	ARG	109	54.730	62.039	19.399	1.00	0.00	C
ATOM	1015	NH1	ARG	109	55.281	63.080	20.087	1.00	0.00	N
ATOM	1016	1HH1	ARG	109	55.961	62.899	20.826	1.00	0.00	H
ATOM	1017	2HH1	ARG	109	55.011	64.038	19.864	1.00	0.00	H
ATOM	1018	NH2	ARG	109	55.091	60.757	19.697	1.00	0.00	N
ATOM	1019	1HH2	ARG	109	55.771	60.576	20.436	1.00	0.00	H
ATOM	1020	2HH2	ARG	109	54.679	59.979	19.183	1.00	0.00	H
ATOM	1021	C	ARG	109	50.678	67.539	19.620	1.00	0.00	C
ATOM	1022	O	ARG	109	51.191	68.323	20.420	1.00	0.00	O
ATOM	1023	N	GLN	110	49.896	67.955	18.615	1.00	0.00	N
ATOM	1024	HN	GLN	110	49.413	67.279	18.024	1.00	0.00	H
ATOM	1025	CA	GLN	110	49.747	69.357	18.381	1.00	0.00	C
ATOM	1026	CB	GLN	110	48.861	69.685	17.171	1.00	0.00	C
ATOM	1027	CG	GLN	110	49.438	69.174	15.852	1.00	0.00	C
ATOM	1028	CD	GLN	110	48.680	69.856	14.727	1.00	0.00	C
ATOM	1029	OE1	GLN	110	49.006	70.979	14.345	1.00	0.00	O
ATOM	1030	NE2	GLN	110	47.640	69.170	14.183	1.00	0.00	N
ATOM	1031	1HE2	GLN	110	47.131	69.628	13.427	1.00	0.00	H
ATOM	1032	2HE2	GLN	110	47.370	68.239	14.500	1.00	0.00	H
ATOM	1033	C	GLN	110	49.137	70.012	19.580	1.00	0.00	C

ATOM	1034	O	GLN	110	49.528	71.115	19.958	1.00	0.00	O
ATOM	1035	N	ILE	111	48.137	69.367	20.198	1.00	0.00	N
ATOM	1036	HN	ILE	111	47.826	68.453	19.870	1.00	0.00	H
ATOM	1037	CA	ILE	111	47.516	69.989	21.327	1.00	0.00	C
ATOM	1038	CB	ILE	111	46.190	69.420	21.716	1.00	0.00	C
ATOM	1039	CG1	ILE	111	45.189	69.773	20.611	1.00	0.00	C
ATOM	1040	CG2	ILE	111	45.789	69.980	23.093	1.00	0.00	C
ATOM	1041	CD1	ILE	111	43.794	69.252	20.889	1.00	0.00	C
ATOM	1042	C	ILE	111	48.409	70.037	22.515	1.00	0.00	C
ATOM	1043	O	ILE	111	48.423	71.052	23.200	1.00	0.00	O
ATOM	1044	N	HIS	112	49.194	68.975	22.780	1.00	0.00	N
ATOM	1045	HN	HIS	112	49.208	68.195	22.122	1.00	0.00	H
ATOM	1046	CA	HIS	112	50.014	68.904	23.960	1.00	0.00	C
ATOM	1047	ND1	HIS	112	50.971	66.804	26.281	1.00	0.00	N
ATOM	1048	HD1	HIS	112	49.971	66.619	26.363	1.00	0.00	H
ATOM	1049	CG	HIS	112	51.622	67.329	25.187	1.00	0.00	C
ATOM	1050	CB	HIS	112	50.939	67.677	23.900	1.00	0.00	C
ATOM	1051	NE2	HIS	112	53.124	66.926	26.821	1.00	0.00	N
ATOM	1052	HE2	HIS	112	54.000	66.859	27.339	1.00	0.00	H
ATOM	1053	CD2	HIS	112	52.936	67.399	25.535	1.00	0.00	C
ATOM	1054	CE1	HIS	112	51.916	66.581	27.229	1.00	0.00	C
ATOM	1055	C	HIS	112	50.854	70.141	23.988	1.00	0.00	C
ATOM	1056	O	HIS	112	50.957	70.820	25.011	1.00	0.00	O
ATOM	1057	N	LYS	113	51.426	70.497	22.829	1.00	0.00	N
ATOM	1058	HN	LYS	113	51.289	69.921	21.999	1.00	0.00	H
ATOM	1059	CA	LYS	113	52.227	71.680	22.749	1.00	0.00	C
ATOM	1060	CB	LYS	113	52.819	71.867	21.346	1.00	0.00	C
ATOM	1061	CG	LYS	113	53.753	70.720	20.966	1.00	0.00	C
ATOM	1062	CD	LYS	113	54.036	70.609	19.470	1.00	0.00	C
ATOM	1063	CE	LYS	113	54.913	69.407	19.118	1.00	0.00	C
ATOM	1064	NZ	LYS	113	54.999	69.249	17.650	1.00	0.00	N
ATOM	1065	HZ1	LYS	113	55.584	68.447	17.415	1.00	0.00	H
ATOM	1066	HZ2	LYS	113	55.321	70.102	17.193	1.00	0.00	H
ATOM	1067	HZ3	LYS	113	54.077	69.187	17.219	1.00	0.00	H
ATOM	1068	C	LYS	113	51.363	72.868	23.050	1.00	0.00	C
ATOM	1069	O	LYS	113	51.733	73.746	23.832	1.00	0.00	O
ATOM	1070	N	ILE	114	50.151	72.903	22.468	1.00	0.00	N
ATOM	1071	HN	ILE	114	49.832	72.117	21.902	1.00	0.00	H
ATOM	1072	CA	ILE	114	49.308	74.050	22.646	1.00	0.00	C
ATOM	1073	CB	ILE	114	47.954	73.859	22.012	1.00	0.00	C
ATOM	1074	CG1	ILE	114	48.057	73.786	20.480	1.00	0.00	C
ATOM	1075	CG2	ILE	114	47.022	74.969	22.525	1.00	0.00	C
ATOM	1076	CD1	ILE	114	48.530	75.091	19.844	1.00	0.00	C
ATOM	1077	C	ILE	114	49.038	74.207	24.107	1.00	0.00	C
ATOM	1078	O	ILE	114	49.308	75.245	24.705	1.00	0.00	O
ATOM	1079	N	ARG	115	48.618	73.107	24.740	1.00	0.00	N
ATOM	1080	HN	ARG	115	48.653	72.223	24.233	1.00	0.00	H
ATOM	1081	CA	ARG	115	48.126	73.089	26.074	1.00	0.00	C
ATOM	1082	CB	ARG	115	47.950	71.648	26.580	1.00	0.00	C
ATOM	1083	CG	ARG	115	47.224	71.516	27.918	1.00	0.00	C
ATOM	1084	CD	ARG	115	45.703	71.574	27.781	1.00	0.00	C
ATOM	1085	NE	ARG	115	45.317	70.424	26.917	1.00	0.00	N
ATOM	1086	HE	ARG	115	46.042	69.869	26.461	1.00	0.00	H
ATOM	1087	CZ	ARG	115	44.004	70.105	26.729	1.00	0.00	C
ATOM	1088	NH1	ARG	115	43.031	70.817	27.367	1.00	0.00	N
ATOM	1089	1HH1	ARG	115	43.283	71.594	27.978	1.00	0.00	H
ATOM	1090	2HH1	ARG	115	42.049	70.578	27.226	1.00	0.00	H
ATOM	1091	NH2	ARG	115	43.667	69.065	25.912	1.00	0.00	N
ATOM	1092	1HH2	ARG	115	44.395	68.533	25.435	1.00	0.00	H
ATOM	1093	2HH2	ARG	115	42.685	68.826	25.771	1.00	0.00	H
ATOM	1094	C	ARG	115	49.105	73.745	26.999	1.00	0.00	C
ATOM	1095	O	ARG	115	48.744	74.674	27.719	1.00	0.00	O
ATOM	1096	N	LYS	116	50.380	73.318	26.970	1.00	0.00	N
ATOM	1097	HN	LYS	116	50.661	72.625	26.276	1.00	0.00	H
ATOM	1098	CA	LYS	116	51.356	73.822	27.901	1.00	0.00	C
ATOM	1099	CB	LYS	116	52.732	73.150	27.729	1.00	0.00	C
ATOM	1100	CG	LYS	116	53.327	73.339	26.331	1.00	0.00	C
ATOM	1101	CD	LYS	116	54.801	72.941	26.212	1.00	0.00	C
ATOM	1102	CE	LYS	116	55.348	73.056	24.787	1.00	0.00	C
ATOM	1103	NZ	LYS	116	56.786	72.705	24.763	1.00	0.00	N
ATOM	1104	HZ1	LYS	116	57.150	72.782	23.813	1.00	0.00	H
ATOM	1105	HZ2	LYS	116	56.961	71.784	25.165	1.00	0.00	H
ATOM	1106	HZ3	LYS	116	57.326	73.263	25.425	1.00	0.00	H
ATOM	1107	C	LYS	116	51.549	75.288	27.717	1.00	0.00	C

ATOM	1108	O	LYS	116	51.628	76.040	28.691	1.00	0.00	O
ATOM	1109	N	GLN	117	51.617	75.742	26.454	1.00	0.00	N
ATOM	1110	HN	GLN	117	51.475	75.116	25.661	1.00	0.00	H
ATOM	1111	CA	GLN	117	51.895	77.133	26.256	1.00	0.00	C
ATOM	1112	CB	GLN	117	51.934	77.544	24.774	1.00	0.00	C
ATOM	1113	CG	GLN	117	53.054	76.896	23.960	1.00	0.00	C
ATOM	1114	CD	GLN	117	52.931	77.418	22.535	1.00	0.00	C
ATOM	1115	OE1	GLN	117	52.574	76.678	21.620	1.00	0.00	O
ATOM	1116	NE2	GLN	117	53.225	78.733	22.341	1.00	0.00	N
ATOM	1117	1HE2	GLN	117	53.143	79.083	21.386	1.00	0.00	H
ATOM	1118	2HE2	GLN	117	53.521	79.347	23.100	1.00	0.00	H
ATOM	1119	C	GLN	117	50.791	77.925	26.879	1.00	0.00	C
ATOM	1120	O	GLN	117	51.037	78.881	27.613	1.00	0.00	O
ATOM	1121	N	PHE	118	49.538	77.506	26.635	1.00	0.00	N
ATOM	1122	HN	PHE	118	49.391	76.631	26.131	1.00	0.00	H
ATOM	1123	CA	PHE	118	48.404	78.268	27.071	1.00	0.00	C
ATOM	1124	CB	PHE	118	47.086	77.711	26.502	1.00	0.00	C
ATOM	1125	CG	PHE	118	45.995	78.718	26.663	1.00	0.00	C
ATOM	1126	CD1	PHE	118	46.086	79.944	26.049	1.00	0.00	C
ATOM	1127	CD2	PHE	118	44.896	78.471	27.445	1.00	0.00	C
ATOM	1128	CE1	PHE	118	45.097	80.890	26.177	1.00	0.00	C
ATOM	1129	CE2	PHE	118	43.899	79.409	27.577	1.00	0.00	C
ATOM	1130	CZ	PHE	118	43.991	80.622	26.942	1.00	0.00	C
ATOM	1131	C	PHE	118	48.365	78.301	28.570	1.00	0.00	C
ATOM	1132	O	PHE	118	48.091	79.345	29.160	1.00	0.00	O
ATOM	1133	N	PHE	119	48.677	77.167	29.230	1.00	0.00	N
ATOM	1134	HN	PHE	119	48.962	76.344	28.698	1.00	0.00	H
ATOM	1135	CA	PHE	119	48.618	77.089	30.665	1.00	0.00	C
ATOM	1136	CB	PHE	119	49.173	75.742	31.165	1.00	0.00	C
ATOM	1137	CG	PHE	119	48.064	74.750	31.229	1.00	0.00	C
ATOM	1138	CD1	PHE	119	47.064	74.714	30.285	1.00	0.00	C
ATOM	1139	CD2	PHE	119	48.065	73.801	32.224	1.00	0.00	C
ATOM	1140	CE1	PHE	119	46.059	73.779	30.376	1.00	0.00	C
ATOM	1141	CE2	PHE	119	47.069	72.862	32.319	1.00	0.00	C
ATOM	1142	CZ	PHE	119	46.056	72.855	31.394	1.00	0.00	C
ATOM	1143	C	PHE	119	49.447	78.182	31.286	1.00	0.00	C
ATOM	1144	O	PHE	119	48.917	79.011	32.025	1.00	0.00	O
ATOM	1145	N	HIS	120	50.755	78.246	30.972	1.00	0.00	N
ATOM	1146	HN	HIS	120	51.136	77.555	30.325	1.00	0.00	H
ATOM	1147	CA	HIS	120	51.641	79.251	31.512	1.00	0.00	C
ATOM	1148	ND1	HIS	120	54.681	80.231	32.658	1.00	0.00	N
ATOM	1149	HD1	HIS	120	54.645	79.542	33.409	1.00	0.00	H
ATOM	1150	CG	HIS	120	54.008	80.174	31.458	1.00	0.00	C
ATOM	1151	CB	HIS	120	53.093	79.062	31.039	1.00	0.00	C
ATOM	1152	NE2	HIS	120	55.238	82.065	31.530	1.00	0.00	N
ATOM	1153	HE2	HIS	120	55.665	82.955	31.275	1.00	0.00	H
ATOM	1154	CD2	HIS	120	54.359	81.303	30.783	1.00	0.00	C
ATOM	1155	CE1	HIS	120	55.401	81.381	32.649	1.00	0.00	C
ATOM	1156	C	HIS	120	51.196	80.583	31.028	1.00	0.00	C
ATOM	1157	O	HIS	120	51.331	81.592	31.722	1.00	0.00	O
ATOM	1158	N	ALA	121	50.676	80.623	29.792	1.00	0.00	N
ATOM	1159	HN	ALA	121	50.548	79.772	29.245	1.00	0.00	H
ATOM	1160	CA	ALA	121	50.307	81.903	29.268	1.00	0.00	C
ATOM	1161	CB	ALA	121	49.752	81.818	27.836	1.00	0.00	C
ATOM	1162	C	ALA	121	49.241	82.495	30.122	1.00	0.00	C
ATOM	1163	O	ALA	121	49.408	83.620	30.594	1.00	0.00	O
ATOM	1164	N	ILE	122	48.174	81.718	30.423	1.00	0.00	N
ATOM	1165	HN	ILE	122	48.146	80.743	30.124	1.00	0.00	H
ATOM	1166	CA	ILE	122	47.083	82.280	31.168	1.00	0.00	C
ATOM	1167	CB	ILE	122	45.980	81.315	31.490	1.00	0.00	C
ATOM	1168	CG1	ILE	122	45.262	80.852	30.216	1.00	0.00	C
ATOM	1169	CG2	ILE	122	45.038	81.995	32.498	1.00	0.00	C
ATOM	1170	CD1	ILE	122	44.244	79.746	30.485	1.00	0.00	C
ATOM	1171	C	ILE	122	47.629	82.763	32.475	1.00	0.00	C
ATOM	1172	O	ILE	122	47.372	83.892	32.875	1.00	0.00	O
ATOM	1173	N	MET	123	48.492	81.966	33.123	1.00	0.00	N
ATOM	1174	HN	MET	123	48.794	81.104	32.670	1.00	0.00	H
ATOM	1175	CA	MET	123	49.009	82.274	34.428	1.00	0.00	C
ATOM	1176	CB	MET	123	49.903	81.167	35.012	1.00	0.00	C
ATOM	1177	CG	MET	123	49.110	79.953	35.497	1.00	0.00	C
ATOM	1178	SD	MET	123	48.054	80.292	36.939	1.00	0.00	S
ATOM	1179	CE	MET	123	49.425	80.387	38.128	1.00	0.00	C
ATOM	1180	C	MET	123	49.797	83.548	34.443	1.00	0.00	C
ATOM	1181	O	MET	123	50.024	84.101	35.513	1.00	0.00	O

ATOM	1182	N	ARG	124	50.412	83.932	33.316	1.00	0.00	N
ATOM	1183	HN	ARG	124	50.373	83.310	32.508	1.00	0.00	H
ATOM	1184	CA	ARG	124	51.129	85.183	33.184	1.00	0.00	C
ATOM	1185	CB	ARG	124	52.227	85.140	32.110	1.00	0.00	C
ATOM	1186	CG	ARG	124	53.494	84.399	32.543	1.00	0.00	C
ATOM	1187	CD	ARG	124	54.561	85.321	33.144	1.00	0.00	C
ATOM	1188	NE	ARG	124	54.390	85.323	34.626	1.00	0.00	N
ATOM	1189	HE	ARG	124	53.907	84.550	35.083	1.00	0.00	H
ATOM	1190	CZ	ARG	124	54.879	86.357	35.372	1.00	0.00	C
ATOM	1191	NH1	ARG	124	55.449	87.433	34.755	1.00	0.00	N
ATOM	1192	1HH1	ARG	124	55.814	88.205	35.312	1.00	0.00	H
ATOM	1193	2HH1	ARG	124	55.505	87.464	33.737	1.00	0.00	H
ATOM	1194	NH2	ARG	124	54.804	86.316	36.734	1.00	0.00	N
ATOM	1195	1HH2	ARG	124	55.169	87.088	37.291	1.00	0.00	H
ATOM	1196	2HH2	ARG	124	54.378	85.512	37.195	1.00	0.00	H
ATOM	1197	C	ARG	124	50.275	86.376	32.860	1.00	0.00	C
ATOM	1198	O	ARG	124	50.676	87.509	33.123	1.00	0.00	O
ATOM	1199	N	GLN	125	49.094	86.160	32.254	1.00	0.00	N
ATOM	1200	HN	GLN	125	48.758	85.200	32.182	1.00	0.00	H
ATOM	1201	CA	GLN	125	48.276	87.211	31.701	1.00	0.00	C
ATOM	1202	CB	GLN	125	46.932	86.699	31.146	1.00	0.00	C
ATOM	1203	CG	GLN	125	46.112	87.789	30.450	1.00	0.00	C
ATOM	1204	CD	GLN	125	44.802	87.198	29.944	1.00	0.00	C
ATOM	1205	OE1	GLN	125	44.489	86.031	30.176	1.00	0.00	O
ATOM	1206	NE2	GLN	125	44.001	88.045	29.245	1.00	0.00	N
ATOM	1207	1HE2	GLN	125	43.124	87.649	28.906	1.00	0.00	H
ATOM	1208	2HE2	GLN	125	44.260	89.013	29.053	1.00	0.00	H
ATOM	1209	C	GLN	125	47.975	88.204	32.777	1.00	0.00	C
ATOM	1210	O	GLN	125	47.673	89.363	32.489	1.00	0.00	O
ATOM	1211	N	GLU	126	47.971	87.749	34.042	1.00	0.00	N
ATOM	1212	HN	GLU	126	48.135	86.757	34.216	1.00	0.00	H
ATOM	1213	CA	GLU	126	47.743	88.621	35.146	1.00	0.00	C
ATOM	1214	CB	GLU	126	48.874	89.626	35.420	1.00	0.00	C
ATOM	1215	CG	GLU	126	49.940	89.064	36.372	1.00	0.00	C
ATOM	1216	CD	GLU	126	50.332	87.649	35.956	1.00	0.00	C
ATOM	1217	OE1	GLU	126	49.482	86.725	36.082	1.00	0.00	O
ATOM	1218	OE2	GLU	126	51.502	87.471	35.522	1.00	0.00	O
ATOM	1219	C	GLU	126	46.407	89.274	35.068	1.00	0.00	C
ATOM	1220	O	GLU	126	45.385	88.658	34.785	1.00	0.00	O
ATOM	1221	N	ILE	127	46.410	90.585	35.277	1.00	0.00	N
ATOM	1222	HN	ILE	127	47.322	91.040	35.314	1.00	0.00	H
ATOM	1223	CA	ILE	127	45.275	91.420	35.454	1.00	0.00	C
ATOM	1224	CB	ILE	127	45.767	92.829	35.500	1.00	0.00	C
ATOM	1225	CG1	ILE	127	44.813	93.808	36.142	1.00	0.00	C
ATOM	1226	CG2	ILE	127	46.092	93.267	34.077	1.00	0.00	C
ATOM	1227	CD1	ILE	127	45.499	95.163	36.093	1.00	0.00	C
ATOM	1228	C	ILE	127	44.265	91.320	34.342	1.00	0.00	C
ATOM	1229	O	ILE	127	43.088	91.599	34.564	1.00	0.00	O
ATOM	1230	N	GLY	128	44.695	91.021	33.104	1.00	0.00	N
ATOM	1231	HN	GLY	128	45.690	90.850	32.958	1.00	0.00	H
ATOM	1232	CA	GLY	128	43.804	90.933	31.976	1.00	0.00	C
ATOM	1233	C	GLY	128	42.830	89.831	32.196	1.00	0.00	C
ATOM	1234	O	GLY	128	41.715	89.826	31.677	1.00	0.00	O
ATOM	1235	N	TRP	129	43.290	88.836	32.949	1.00	0.00	N
ATOM	1236	HN	TRP	129	44.242	88.934	33.301	1.00	0.00	H
ATOM	1237	CA	TRP	129	42.594	87.646	33.318	1.00	0.00	C
ATOM	1238	CB	TRP	129	43.584	86.733	34.060	1.00	0.00	C
ATOM	1239	CG	TRP	129	43.119	85.587	34.908	1.00	0.00	C
ATOM	1240	CD2	TRP	129	43.940	85.132	35.990	1.00	0.00	C
ATOM	1241	CD1	TRP	129	42.061	84.731	34.831	1.00	0.00	C
ATOM	1242	NE1	TRP	129	42.160	83.782	35.825	1.00	0.00	N
ATOM	1243	HE1	TRP	129	41.489	83.035	36.005	1.00	0.00	H
ATOM	1244	CE2	TRP	129	43.320	84.013	36.537	1.00	0.00	C
ATOM	1245	CE3	TRP	129	45.128	85.605	36.470	1.00	0.00	C
ATOM	1246	CZ2	TRP	129	43.883	83.343	37.586	1.00	0.00	C
ATOM	1247	CZ3	TRP	129	45.685	84.939	37.534	1.00	0.00	C
ATOM	1248	CH2	TRP	129	45.074	83.829	38.082	1.00	0.00	C
ATOM	1249	C	TRP	129	41.395	88.020	34.105	1.00	0.00	C
ATOM	1250	O	TRP	129	40.493	87.208	34.280	1.00	0.00	O
ATOM	1251	N	PHE	130	41.461	89.166	34.788	1.00	0.00	N
ATOM	1252	HN	PHE	130	42.374	89.606	34.904	1.00	0.00	H
ATOM	1253	CA	PHE	130	40.325	89.810	35.365	1.00	0.00	C
ATOM	1254	CB	PHE	130	40.746	90.643	36.585	1.00	0.00	C
ATOM	1255	CG	PHE	130	39.531	91.017	37.355	1.00	0.00	C

ATOM	1256	CD1	PHE	130	39.001	90.138	38.272	1.00	0.00	C
ATOM	1257	CD2	PHE	130	38.931	92.239	37.168	1.00	0.00	C
ATOM	1258	CE1	PHE	130	37.881	90.474	38.993	1.00	0.00	C
ATOM	1259	CE2	PHE	130	37.810	92.580	37.887	1.00	0.00	C
ATOM	1260	CZ	PHE	130	37.285	91.697	38.800	1.00	0.00	C
ATOM	1261	C	PHE	130	39.741	90.761	34.333	1.00	0.00	C
ATOM	1262	O	PHE	130	38.534	90.988	34.279	1.00	0.00	O
ATOM	1263	N	ASP	131	40.616	91.353	33.482	1.00	0.00	N
ATOM	1264	HN	ASP	131	41.582	91.026	33.495	1.00	0.00	H
ATOM	1265	CA	ASP	131	40.281	92.413	32.558	1.00	0.00	C
ATOM	1266	CB	ASP	131	41.461	92.805	31.648	1.00	0.00	C
ATOM	1267	CG	ASP	131	42.519	93.501	32.492	1.00	0.00	C
ATOM	1268	OD1	ASP	131	42.218	93.810	33.673	1.00	0.00	O
ATOM	1269	OD2	ASP	131	43.642	93.732	31.968	1.00	0.00	O
ATOM	1270	C	ASP	131	39.163	92.026	31.679	1.00	0.00	C
ATOM	1271	O	ASP	131	38.147	92.709	31.579	1.00	0.00	O
ATOM	1272	N	VAL	132	39.303	90.892	31.015	1.00	0.00	N
ATOM	1273	HN	VAL	132	40.155	90.333	31.073	1.00	0.00	H
ATOM	1274	CA	VAL	132	38.203	90.500	30.221	1.00	0.00	C
ATOM	1275	CB	VAL	132	38.508	90.417	28.754	1.00	0.00	C
ATOM	1276	CG1	VAL	132	38.845	91.830	28.252	1.00	0.00	C
ATOM	1277	CG2	VAL	132	39.646	89.406	28.540	1.00	0.00	C
ATOM	1278	C	VAL	132	37.986	89.146	30.726	1.00	0.00	C
ATOM	1279	O	VAL	132	38.437	88.814	31.822	1.00	0.00	O
ATOM	1280	N	HIS	133	37.227	88.359	29.975	1.00	0.00	N
ATOM	1281	HN	HIS	133	36.753	88.726	29.150	1.00	0.00	H
ATOM	1282	CA	HIS	133	37.089	86.995	30.344	1.00	0.00	C
ATOM	1283	ND1	HIS	133	39.669	85.685	28.669	1.00	0.00	N
ATOM	1284	HD1	HIS	133	38.961	85.077	28.257	1.00	0.00	H
ATOM	1285	CG	HIS	133	39.573	86.365	29.862	1.00	0.00	C
ATOM	1286	CB	HIS	133	38.394	86.288	30.793	1.00	0.00	C
ATOM	1287	NE2	HIS	133	41.579	86.796	28.917	1.00	0.00	N
ATOM	1288	HE2	HIS	133	42.515	87.166	28.753	1.00	0.00	H
ATOM	1289	CD2	HIS	133	40.750	87.039	29.997	1.00	0.00	C
ATOM	1290	CE1	HIS	133	40.887	85.978	28.146	1.00	0.00	C
ATOM	1291	C	HIS	133	36.141	86.837	31.490	1.00	0.00	C
ATOM	1292	O	HIS	133	36.344	87.374	32.578	1.00	0.00	O
ATOM	1293	N	ASP	134	35.083	86.036	31.269	1.00	0.00	N
ATOM	1294	HN	ASP	134	34.934	85.656	30.334	1.00	0.00	H
ATOM	1295	CA	ASP	134	34.162	85.704	32.312	1.00	0.00	C
ATOM	1296	CB	ASP	134	32.976	84.859	31.820	1.00	0.00	C
ATOM	1297	CG	ASP	134	32.093	85.771	30.978	1.00	0.00	C
ATOM	1298	OD1	ASP	134	31.734	86.870	31.478	1.00	0.00	O
ATOM	1299	OD2	ASP	134	31.763	85.382	29.827	1.00	0.00	O
ATOM	1300	C	ASP	134	34.968	84.894	33.270	1.00	0.00	C
ATOM	1301	O	ASP	134	34.619	84.731	34.438	1.00	0.00	O
ATOM	1302	N	VAL	135	36.053	84.304	32.737	1.00	0.00	N
ATOM	1303	HN	VAL	135	36.207	84.446	31.739	1.00	0.00	H
ATOM	1304	CA	VAL	135	37.017	83.495	33.428	1.00	0.00	C
ATOM	1305	CB	VAL	135	37.393	84.047	34.769	1.00	0.00	C
ATOM	1306	CG1	VAL	135	38.290	83.015	35.469	1.00	0.00	C
ATOM	1307	CG2	VAL	135	38.056	85.422	34.580	1.00	0.00	C
ATOM	1308	C	VAL	135	36.381	82.162	33.651	1.00	0.00	C
ATOM	1309	O	VAL	135	37.067	81.138	33.652	1.00	0.00	O
ATOM	1310	N	GLY	136	35.044	82.144	33.844	1.00	0.00	N
ATOM	1311	HN	GLY	136	34.540	83.024	33.957	1.00	0.00	H
ATOM	1312	CA	GLY	136	34.328	80.912	33.892	1.00	0.00	C
ATOM	1313	C	GLY	136	34.289	80.460	32.478	1.00	0.00	C
ATOM	1314	O	GLY	136	34.587	79.314	32.152	1.00	0.00	O
ATOM	1315	N	GLU	137	33.955	81.418	31.593	1.00	0.00	N
ATOM	1316	HN	GLU	137	33.767	82.362	31.929	1.00	0.00	H
ATOM	1317	CA	GLU	137	33.857	81.145	30.198	1.00	0.00	C
ATOM	1318	CB	GLU	137	33.320	82.339	29.375	1.00	0.00	C
ATOM	1319	CG	GLU	137	34.205	83.588	29.361	1.00	0.00	C
ATOM	1320	CD	GLU	137	35.127	83.510	28.152	1.00	0.00	C
ATOM	1321	OE1	GLU	137	36.239	82.941	28.295	1.00	0.00	O
ATOM	1322	OE2	GLU	137	34.732	84.017	27.068	1.00	0.00	O
ATOM	1323	C	GLU	137	35.235	80.776	29.734	1.00	0.00	C
ATOM	1324	O	GLU	137	35.371	80.001	28.792	1.00	0.00	O
ATOM	1325	N	LEU	138	36.283	81.352	30.375	1.00	0.00	N
ATOM	1326	HN	LEU	138	36.072	81.960	31.167	1.00	0.00	H
ATOM	1327	CA	LEU	138	37.681	81.173	30.025	1.00	0.00	C
ATOM	1328	CB	LEU	138	38.638	82.029	30.864	1.00	0.00	C
ATOM	1329	CG	LEU	138	40.114	81.682	30.580	1.00	0.00	C

ATOM	1330	CD1	LEU	138	40.587	82.215	29.218	1.00	0.00	C
ATOM	1331	CD2	LEU	138	41.017	82.066	31.757	1.00	0.00	C
ATOM	1332	C	LEU	138	38.189	79.788	30.210	1.00	0.00	C
ATOM	1333	O	LEU	138	38.662	79.196	29.253	1.00	0.00	O
ATOM	1334	N	ASN	139	38.104	79.214	31.422	1.00	0.00	N
ATOM	1335	HN	ASN	139	37.664	79.712	32.196	1.00	0.00	H
ATOM	1336	CA	ASN	139	38.637	77.895	31.621	1.00	0.00	C
ATOM	1337	CB	ASN	139	38.468	77.390	33.066	1.00	0.00	C
ATOM	1338	CG	ASN	139	36.999	77.482	33.453	1.00	0.00	C
ATOM	1339	OD1	ASN	139	36.531	78.531	33.892	1.00	0.00	O
ATOM	1340	ND2	ASN	139	36.247	76.363	33.281	1.00	0.00	N
ATOM	1341	1HD2	ASN	139	36.635	75.493	32.917	1.00	0.00	H
ATOM	1342	2HD2	ASN	139	35.262	76.425	33.540	1.00	0.00	H
ATOM	1343	C	ASN	139	37.835	77.027	30.736	1.00	0.00	C
ATOM	1344	O	ASN	139	38.367	76.110	30.114	1.00	0.00	O
ATOM	1345	N	THR	140	36.529	77.347	30.635	1.00	0.00	N
ATOM	1346	HN	THR	140	36.163	78.145	31.155	1.00	0.00	H
ATOM	1347	CA	THR	140	35.653	76.582	29.809	1.00	0.00	C
ATOM	1348	CB	THR	140	34.275	77.168	29.695	1.00	0.00	C
ATOM	1349	OG1	THR	140	33.650	77.226	30.969	1.00	0.00	O
ATOM	1350	HG1	THR	140	34.161	77.763	31.564	1.00	0.00	H
ATOM	1351	CG2	THR	140	33.448	76.299	28.732	1.00	0.00	C
ATOM	1352	C	THR	140	36.271	76.633	28.457	1.00	0.00	C
ATOM	1353	O	THR	140	36.355	75.617	27.777	1.00	0.00	O
ATOM	1354	N	ARG	141	36.764	77.828	28.078	1.00	0.00	N
ATOM	1355	HN	ARG	141	36.653	78.607	28.727	1.00	0.00	H
ATOM	1356	CA	ARG	141	37.434	78.096	26.835	1.00	0.00	C
ATOM	1357	CB	ARG	141	37.781	79.590	26.693	1.00	0.00	C
ATOM	1358	CG	ARG	141	38.693	79.914	25.514	1.00	0.00	C
ATOM	1359	CD	ARG	141	39.258	81.337	25.538	1.00	0.00	C
ATOM	1360	NE	ARG	141	38.109	82.289	25.578	1.00	0.00	N
ATOM	1361	HE	ARG	141	37.820	82.698	26.467	1.00	0.00	H
ATOM	1362	CZ	ARG	141	37.442	82.616	24.433	1.00	0.00	C
ATOM	1363	NH1	ARG	141	37.755	81.989	23.262	1.00	0.00	N
ATOM	1364	1HH1	ARG	141	37.257	82.233	22.406	1.00	0.00	H
ATOM	1365	2HH1	ARG	141	38.492	81.284	23.243	1.00	0.00	H
ATOM	1366	NH2	ARG	141	36.456	83.560	24.459	1.00	0.00	N
ATOM	1367	1HH2	ARG	141	35.958	83.804	23.603	1.00	0.00	H
ATOM	1368	2HH2	ARG	141	36.222	84.029	25.334	1.00	0.00	H
ATOM	1369	C	ARG	141	38.731	77.334	26.751	1.00	0.00	C
ATOM	1370	O	ARG	141	39.107	76.879	25.678	1.00	0.00	O
ATOM	1371	N	LEU	142	39.488	77.185	27.853	1.00	0.00	N
ATOM	1372	HN	LEU	142	39.170	77.554	28.749	1.00	0.00	H
ATOM	1373	CA	LEU	142	40.747	76.502	27.757	1.00	0.00	C
ATOM	1374	CB	LEU	142	41.437	76.396	29.136	1.00	0.00	C
ATOM	1375	CG	LEU	142	42.706	75.514	29.196	1.00	0.00	C
ATOM	1376	CD1	LEU	142	42.377	74.010	29.219	1.00	0.00	C
ATOM	1377	CD2	LEU	142	43.680	75.866	28.065	1.00	0.00	C
ATOM	1378	C	LEU	142	40.484	75.121	27.264	1.00	0.00	C
ATOM	1379	O	LEU	142	41.025	74.724	26.238	1.00	0.00	O
ATOM	1380	N	THR	143	39.628	74.354	27.963	1.00	0.00	N
ATOM	1381	HN	THR	143	39.161	74.731	28.787	1.00	0.00	H
ATOM	1382	CA	THR	143	39.373	73.003	27.547	1.00	0.00	C
ATOM	1383	CB	THR	143	38.646	72.202	28.584	1.00	0.00	C
ATOM	1384	OG1	THR	143	37.380	72.782	28.861	1.00	0.00	O
ATOM	1385	HG1	THR	143	36.919	72.274	29.518	1.00	0.00	H
ATOM	1386	CG2	THR	143	39.504	72.159	29.857	1.00	0.00	C
ATOM	1387	C	THR	143	38.549	72.974	26.311	1.00	0.00	C
ATOM	1388	O	THR	143	38.876	72.269	25.362	1.00	0.00	O
ATOM	1389	N	ASP	144	37.467	73.768	26.284	1.00	0.00	N
ATOM	1390	HN	ASP	144	37.295	74.414	27.054	1.00	0.00	H
ATOM	1391	CA	ASP	144	36.553	73.717	25.186	1.00	0.00	C
ATOM	1392	CB	ASP	144	35.373	74.688	25.372	1.00	0.00	C
ATOM	1393	CG	ASP	144	34.353	74.443	24.271	1.00	0.00	C
ATOM	1394	OD1	ASP	144	34.636	73.615	23.365	1.00	0.00	O
ATOM	1395	OD2	ASP	144	33.270	75.084	24.326	1.00	0.00	O
ATOM	1396	C	ASP	144	37.281	74.100	23.938	1.00	0.00	C
ATOM	1397	O	ASP	144	37.174	73.398	22.936	1.00	0.00	O
ATOM	1398	N	ASP	145	38.042	75.215	23.965	1.00	0.00	N
ATOM	1399	HN	ASP	145	38.124	75.740	24.835	1.00	0.00	H
ATOM	1400	CA	ASP	145	38.737	75.678	22.800	1.00	0.00	C
ATOM	1401	CB	ASP	145	39.334	77.087	22.956	1.00	0.00	C
ATOM	1402	CG	ASP	145	38.170	78.063	23.047	1.00	0.00	C
ATOM	1403	OD1	ASP	145	37.048	77.610	23.402	1.00	0.00	O

ATOM	1404	OD2	ASP	145	38.386	79.273	22.771	1.00	0.00	O
ATOM	1405	C	ASP	145	39.837	74.740	22.435	1.00	0.00	C
ATOM	1406	O	ASP	145	39.894	74.311	21.287	1.00	0.00	O
ATOM	1407	N	VAL	146	40.693	74.339	23.406	1.00	0.00	N
ATOM	1408	HN	VAL	146	40.546	74.636	24.371	1.00	0.00	H
ATOM	1409	CA	VAL	146	41.810	73.494	23.074	1.00	0.00	C
ATOM	1410	CB	VAL	146	42.659	73.058	24.233	1.00	0.00	C
ATOM	1411	CG1	VAL	146	43.323	74.298	24.834	1.00	0.00	C
ATOM	1412	CG2	VAL	146	41.807	72.254	25.218	1.00	0.00	C
ATOM	1413	C	VAL	146	41.251	72.264	22.426	1.00	0.00	C
ATOM	1414	O	VAL	146	41.752	71.832	21.392	1.00	0.00	O
ATOM	1415	N	SER	147	40.148	71.726	22.984	1.00	0.00	N
ATOM	1416	HN	SER	147	39.757	72.180	23.810	1.00	0.00	H
ATOM	1417	CA	SER	147	39.489	70.548	22.482	1.00	0.00	C
ATOM	1418	CB	SER	147	38.295	70.123	23.356	1.00	0.00	C
ATOM	1419	OG	SER	147	38.744	69.751	24.650	1.00	0.00	O
ATOM	1420	HG	SER	147	38.007	69.489	25.189	1.00	0.00	H
ATOM	1421	C	SER	147	38.948	70.810	21.100	1.00	0.00	C
ATOM	1422	O	SER	147	39.134	70.002	20.196	1.00	0.00	O
ATOM	1423	N	LYS	148	38.295	71.968	20.879	1.00	0.00	N
ATOM	1424	HN	LYS	148	38.239	72.655	21.631	1.00	0.00	H
ATOM	1425	CA	LYS	148	37.676	72.266	19.618	1.00	0.00	C
ATOM	1426	CB	LYS	148	36.948	73.621	19.598	1.00	0.00	C
ATOM	1427	CG	LYS	148	35.642	73.588	20.395	1.00	0.00	C
ATOM	1428	CD	LYS	148	34.658	72.533	19.878	1.00	0.00	C
ATOM	1429	CE	LYS	148	33.339	72.468	20.650	1.00	0.00	C
ATOM	1430	NZ	LYS	148	32.463	71.426	20.068	1.00	0.00	N
ATOM	1431	HZ1	LYS	148	31.583	71.383	20.583	1.00	0.00	H
ATOM	1432	HZ2	LYS	148	32.926	70.518	20.024	1.00	0.00	H
ATOM	1433	HZ3	LYS	148	32.315	71.566	19.069	1.00	0.00	H
ATOM	1434	C	LYS	148	38.736	72.272	18.569	1.00	0.00	C
ATOM	1435	O	LYS	148	38.467	71.981	17.405	1.00	0.00	O
ATOM	1436	N	ILE	149	39.967	72.648	18.952	1.00	0.00	N
ATOM	1437	HN	ILE	149	40.124	72.938	19.917	1.00	0.00	H
ATOM	1438	CA	ILE	149	41.060	72.650	18.035	1.00	0.00	C
ATOM	1439	CB	ILE	149	42.329	73.072	18.699	1.00	0.00	C
ATOM	1440	CG1	ILE	149	42.027	74.297	19.566	1.00	0.00	C
ATOM	1441	CG2	ILE	149	43.405	73.289	17.622	1.00	0.00	C
ATOM	1442	CD1	ILE	149	41.069	75.277	18.897	1.00	0.00	C
ATOM	1443	C	ILE	149	41.242	71.219	17.648	1.00	0.00	C
ATOM	1444	O	ILE	149	41.325	70.882	16.468	1.00	0.00	O
ATOM	1445	N	ASN	150	41.233	70.332	18.665	1.00	0.00	N
ATOM	1446	HN	ASN	150	41.046	70.675	19.607	1.00	0.00	H
ATOM	1447	CA	ASN	150	41.474	68.930	18.483	1.00	0.00	C
ATOM	1448	CB	ASN	150	41.306	68.130	19.785	1.00	0.00	C
ATOM	1449	CG	ASN	150	41.951	66.765	19.594	1.00	0.00	C
ATOM	1450	OD1	ASN	150	41.511	65.960	18.774	1.00	0.00	O
ATOM	1451	ND2	ASN	150	43.036	66.498	20.370	1.00	0.00	N
ATOM	1452	1HD2	ASN	150	43.401	67.165	21.050	1.00	0.00	H
ATOM	1453	2HD2	ASN	150	43.468	65.583	20.242	1.00	0.00	H
ATOM	1454	C	ASN	150	40.471	68.397	17.509	1.00	0.00	C
ATOM	1455	O	ASN	150	40.837	67.788	16.506	1.00	0.00	O
ATOM	1456	N	GLU	151	39.175	68.675	17.735	1.00	0.00	N
ATOM	1457	HN	GLU	151	38.910	69.265	18.524	1.00	0.00	H
ATOM	1458	CA	GLU	151	38.166	68.143	16.868	1.00	0.00	C
ATOM	1459	CB	GLU	151	36.741	68.565	17.265	1.00	0.00	C
ATOM	1460	CG	GLU	151	36.228	67.835	18.508	1.00	0.00	C
ATOM	1461	CD	GLU	151	34.823	68.337	18.805	1.00	0.00	C
ATOM	1462	OE1	GLU	151	34.441	69.394	18.236	1.00	0.00	O
ATOM	1463	OE2	GLU	151	34.113	67.671	19.605	1.00	0.00	O
ATOM	1464	C	GLU	151	38.452	68.660	15.493	1.00	0.00	C
ATOM	1465	O	GLU	151	38.306	67.934	14.515	1.00	0.00	O
ATOM	1466	N	GLY	152	38.935	69.912	15.383	1.00	0.00	N
ATOM	1467	HN	GLY	152	39.138	70.452	16.224	1.00	0.00	H
ATOM	1468	CA	GLY	152	39.165	70.491	14.095	1.00	0.00	C
ATOM	1469	C	GLY	152	40.111	69.624	13.318	1.00	0.00	C
ATOM	1470	O	GLY	152	39.911	69.421	12.122	1.00	0.00	O
ATOM	1471	N	ILE	153	41.183	69.116	13.961	1.00	0.00	N
ATOM	1472	HN	ILE	153	41.292	69.268	14.964	1.00	0.00	H
ATOM	1473	CA	ILE	153	42.175	68.360	13.239	1.00	0.00	C
ATOM	1474	CB	ILE	153	43.403	68.112	14.059	1.00	0.00	C
ATOM	1475	CG1	ILE	153	43.944	69.442	14.603	1.00	0.00	C
ATOM	1476	CG2	ILE	153	44.408	67.347	13.178	1.00	0.00	C
ATOM	1477	CD1	ILE	153	44.216	70.476	13.515	1.00	0.00	C

ATOM	1478	C	ILE	153	41.716	66.992	12.762	1.00	0.00	C
ATOM	1479	O	ILE	153	41.778	66.704	11.569	1.00	0.00	O
ATOM	1480	N	GLY	154	41.237	66.111	13.673	1.00	0.00	N
ATOM	1481	HN	GLY	154	41.131	66.421	14.639	1.00	0.00	H
ATOM	1482	CA	GLY	154	40.868	64.750	13.341	1.00	0.00	C
ATOM	1483	C	GLY	154	39.666	64.691	12.439	1.00	0.00	C
ATOM	1484	O	GLY	154	39.615	63.856	11.540	1.00	0.00	O
ATOM	1485	N	ASP	155	38.629	65.519	12.683	1.00	0.00	N
ATOM	1486	HN	ASP	155	38.671	66.184	13.455	1.00	0.00	H
ATOM	1487	CA	ASP	155	37.464	65.454	11.844	1.00	0.00	C
ATOM	1488	CB	ASP	155	36.164	66.051	12.434	1.00	0.00	C
ATOM	1489	CG	ASP	155	36.279	67.528	12.740	1.00	0.00	C
ATOM	1490	OD1	ASP	155	37.206	68.192	12.208	1.00	0.00	O
ATOM	1491	OD2	ASP	155	35.447	68.011	13.553	1.00	0.00	O
ATOM	1492	C	ASP	155	37.781	66.003	10.498	1.00	0.00	C
ATOM	1493	O	ASP	155	37.255	65.512	9.505	1.00	0.00	O
ATOM	1494	N	LYS	156	38.686	66.994	10.416	1.00	0.00	N
ATOM	1495	HN	LYS	156	39.116	67.353	11.269	1.00	0.00	H
ATOM	1496	CA	LYS	156	39.056	67.553	9.154	1.00	0.00	C
ATOM	1497	CB	LYS	156	40.131	68.649	9.292	1.00	0.00	C
ATOM	1498	CG	LYS	156	40.997	68.916	8.058	1.00	0.00	C
ATOM	1499	CD	LYS	156	42.193	67.963	7.967	1.00	0.00	C
ATOM	1500	CE	LYS	156	42.095	66.851	6.927	1.00	0.00	C
ATOM	1501	NZ	LYS	156	43.047	65.774	7.272	1.00	0.00	N
ATOM	1502	HZ1	LYS	156	42.981	65.031	6.577	1.00	0.00	H
ATOM	1503	HZ2	LYS	156	42.912	65.428	8.222	1.00	0.00	H
ATOM	1504	HZ3	LYS	156	44.000	66.120	7.379	1.00	0.00	H
ATOM	1505	C	LYS	156	39.538	66.426	8.312	1.00	0.00	C
ATOM	1506	O	LYS	156	39.340	66.418	7.097	1.00	0.00	O
ATOM	1507	N	ILE	157	40.169	65.420	8.944	1.00	0.00	N
ATOM	1508	HN	ILE	157	40.284	65.422	9.957	1.00	0.00	H
ATOM	1509	CA	ILE	157	40.672	64.349	8.144	1.00	0.00	C
ATOM	1510	CB	ILE	157	41.443	63.305	8.910	1.00	0.00	C
ATOM	1511	CG1	ILE	157	40.601	62.216	9.603	1.00	0.00	C
ATOM	1512	CG2	ILE	157	42.185	64.142	9.955	1.00	0.00	C
ATOM	1513	CD1	ILE	157	40.132	61.087	8.682	1.00	0.00	C
ATOM	1514	C	ILE	157	39.470	63.712	7.535	1.00	0.00	C
ATOM	1515	O	ILE	157	39.412	63.494	6.329	1.00	0.00	O
ATOM	1516	N	GLY	158	38.425	63.499	8.355	1.00	0.00	N
ATOM	1517	HN	GLY	158	38.473	63.841	9.315	1.00	0.00	H
ATOM	1518	CA	GLY	158	37.247	62.808	7.925	1.00	0.00	C
ATOM	1519	C	GLY	158	36.705	63.477	6.704	1.00	0.00	C
ATOM	1520	O	GLY	158	36.368	62.799	5.734	1.00	0.00	O
ATOM	1521	N	MET	159	36.644	64.821	6.696	1.00	0.00	N
ATOM	1522	HN	MET	159	36.997	65.355	7.490	1.00	0.00	H
ATOM	1523	CA	MET	159	36.081	65.499	5.568	1.00	0.00	C
ATOM	1524	CB	MET	159	36.049	67.027	5.734	1.00	0.00	C
ATOM	1525	CG	MET	159	35.216	67.754	4.673	1.00	0.00	C
ATOM	1526	SD	MET	159	35.929	67.796	3.000	1.00	0.00	S
ATOM	1527	CE	MET	159	37.220	69.007	3.406	1.00	0.00	C
ATOM	1528	C	MET	159	36.886	65.215	4.345	1.00	0.00	C
ATOM	1529	O	MET	159	36.318	64.822	3.333	1.00	0.00	O
ATOM	1530	N	PHE	160	38.228	65.311	4.437	1.00	0.00	N
ATOM	1531	HN	PHE	160	38.639	65.461	5.358	1.00	0.00	H
ATOM	1532	CA	PHE	160	39.112	65.213	3.302	1.00	0.00	C
ATOM	1533	CB	PHE	160	40.585	65.119	3.739	1.00	0.00	C
ATOM	1534	CG	PHE	160	41.456	65.359	2.557	1.00	0.00	C
ATOM	1535	CD1	PHE	160	41.668	64.373	1.622	1.00	0.00	C
ATOM	1536	CD2	PHE	160	42.077	66.576	2.398	1.00	0.00	C
ATOM	1537	CE1	PHE	160	42.478	64.605	0.536	1.00	0.00	C
ATOM	1538	CE2	PHE	160	42.889	66.812	1.314	1.00	0.00	C
ATOM	1539	CZ	PHE	160	43.089	65.825	0.379	1.00	0.00	C
ATOM	1540	C	PHE	160	38.756	63.942	2.618	1.00	0.00	C
ATOM	1541	O	PHE	160	38.485	63.920	1.418	1.00	0.00	O
ATOM	1542	N	PHE	161	38.617	62.875	3.417	1.00	0.00	N
ATOM	1543	HN	PHE	161	38.795	62.968	4.417	1.00	0.00	H
ATOM	1544	CA	PHE	161	38.224	61.612	2.886	1.00	0.00	C
ATOM	1545	CB	PHE	161	38.059	60.588	4.028	1.00	0.00	C
ATOM	1546	CG	PHE	161	37.045	59.553	3.688	1.00	0.00	C
ATOM	1547	CD1	PHE	161	37.181	58.712	2.612	1.00	0.00	C
ATOM	1548	CD2	PHE	161	35.951	59.406	4.512	1.00	0.00	C
ATOM	1549	CE1	PHE	161	36.214	57.768	2.356	1.00	0.00	C
ATOM	1550	CE2	PHE	161	34.986	58.463	4.259	1.00	0.00	C
ATOM	1551	CZ	PHE	161	35.115	57.639	3.170	1.00	0.00	C

ATOM	1552	C	PHE	161	36.937	61.754	2.116	1.00	0.00	C
ATOM	1553	O	PHE	161	36.890	61.455	0.926	1.00	0.00	O
ATOM	1554	N	GLN	162	35.869	62.290	2.725	1.00	0.00	N
ATOM	1555	HN	GLN	162	35.954	62.657	3.673	1.00	0.00	H
ATOM	1556	CA	GLN	162	34.601	62.349	2.042	1.00	0.00	C
ATOM	1557	CB	GLN	162	33.466	62.876	2.935	1.00	0.00	C
ATOM	1558	CG	GLN	162	32.085	62.768	2.286	1.00	0.00	C
ATOM	1559	CD	GLN	162	31.682	61.299	2.290	1.00	0.00	C
ATOM	1560	OE1	GLN	162	31.842	60.595	1.295	1.00	0.00	O
ATOM	1561	NE2	GLN	162	31.150	60.819	3.447	1.00	0.00	N
ATOM	1562	1HE2	GLN	162	30.880	59.835	3.450	1.00	0.00	H
ATOM	1563	2HE2	GLN	162	31.017	61.403	4.273	1.00	0.00	H
ATOM	1564	C	GLN	162	34.682	63.245	0.844	1.00	0.00	C
ATOM	1565	O	GLN	162	34.076	62.958	-0.188	1.00	0.00	O
ATOM	1566	N	SER	163	35.444	64.351	0.937	1.00	0.00	N
ATOM	1567	HN	SER	163	35.994	64.513	1.781	1.00	0.00	H
ATOM	1568	CA	SER	163	35.494	65.303	-0.131	1.00	0.00	C
ATOM	1569	CB	SER	163	36.480	66.458	0.113	1.00	0.00	C
ATOM	1570	OG	SER	163	37.819	65.991	0.038	1.00	0.00	O
ATOM	1571	HG	SER	163	38.428	66.704	0.189	1.00	0.00	H
ATOM	1572	C	SER	163	35.941	64.579	-1.360	1.00	0.00	C
ATOM	1573	O	SER	163	35.503	64.893	-2.463	1.00	0.00	O
ATOM	1574	N	MET	164	36.871	63.623	-1.195	1.00	0.00	N
ATOM	1575	HN	MET	164	37.230	63.458	-0.255	1.00	0.00	H
ATOM	1576	CA	MET	164	37.389	62.819	-2.270	1.00	0.00	C
ATOM	1577	CB	MET	164	38.703	62.124	-1.892	1.00	0.00	C
ATOM	1578	CG	MET	164	39.823	63.135	-1.656	1.00	0.00	C
ATOM	1579	SD	MET	164	40.170	64.185	-3.099	1.00	0.00	S
ATOM	1580	CE	MET	164	41.552	65.070	-2.326	1.00	0.00	C
ATOM	1581	C	MET	164	36.431	61.774	-2.758	1.00	0.00	C
ATOM	1582	O	MET	164	36.406	61.461	-3.946	1.00	0.00	O
ATOM	1583	N	ALA	165	35.647	61.155	-1.857	1.00	0.00	N
ATOM	1584	HN	ALA	165	35.684	61.415	-0.871	1.00	0.00	H
ATOM	1585	CA	ALA	165	34.758	60.123	-2.308	1.00	0.00	C
ATOM	1586	CB	ALA	165	33.938	59.497	-1.166	1.00	0.00	C
ATOM	1587	C	ALA	165	33.810	60.780	-3.243	1.00	0.00	C
ATOM	1588	O	ALA	165	33.448	60.216	-4.271	1.00	0.00	O
ATOM	1589	N	THR	166	33.375	61.996	-2.875	1.00	0.00	N
ATOM	1590	HN	THR	166	33.713	62.376	-1.991	1.00	0.00	H
ATOM	1591	CA	THR	166	32.467	62.794	-3.643	1.00	0.00	C
ATOM	1592	CB	THR	166	32.274	64.135	-2.998	1.00	0.00	C
ATOM	1593	OG1	THR	166	31.833	64.024	-1.656	1.00	0.00	O
ATOM	1594	HG1	THR	166	31.711	64.873	-1.248	1.00	0.00	H
ATOM	1595	CG2	THR	166	31.274	64.928	-3.836	1.00	0.00	C
ATOM	1596	C	THR	166	33.106	63.170	-4.937	1.00	0.00	C
ATOM	1597	O	THR	166	32.594	62.898	-6.021	1.00	0.00	O
ATOM	1598	N	PHE	167	34.290	63.796	-4.830	1.00	0.00	N
ATOM	1599	HN	PHE	167	34.753	63.856	-3.923	1.00	0.00	H
ATOM	1600	CA	PHE	167	34.902	64.377	-5.982	1.00	0.00	C
ATOM	1601	CB	PHE	167	36.230	65.069	-5.629	1.00	0.00	C
ATOM	1602	CG	PHE	167	36.587	65.972	-6.756	1.00	0.00	C
ATOM	1603	CD1	PHE	167	37.299	65.520	-7.842	1.00	0.00	C
ATOM	1604	CD2	PHE	167	36.197	67.291	-6.715	1.00	0.00	C
ATOM	1605	CE1	PHE	167	37.616	66.375	-8.872	1.00	0.00	C
ATOM	1606	CE2	PHE	167	36.512	68.149	-7.741	1.00	0.00	C
ATOM	1607	CZ	PHE	167	37.224	67.691	-8.824	1.00	0.00	C
ATOM	1608	C	PHE	167	35.179	63.305	-6.982	1.00	0.00	C
ATOM	1609	O	PHE	167	34.691	63.351	-8.108	1.00	0.00	O
ATOM	1610	N	PHE	168	35.929	62.274	-6.563	1.00	0.00	N
ATOM	1611	HN	PHE	168	36.238	62.256	-5.591	1.00	0.00	H
ATOM	1612	CA	PHE	168	36.312	61.199	-7.426	1.00	0.00	C
ATOM	1613	CB	PHE	168	37.354	60.251	-6.817	1.00	0.00	C
ATOM	1614	CG	PHE	168	38.641	60.992	-6.869	1.00	0.00	C
ATOM	1615	CD1	PHE	168	39.351	61.031	-8.045	1.00	0.00	C
ATOM	1616	CD2	PHE	168	39.131	61.646	-5.761	1.00	0.00	C
ATOM	1617	CE1	PHE	168	40.541	61.712	-8.118	1.00	0.00	C
ATOM	1618	CE2	PHE	168	40.321	62.329	-5.830	1.00	0.00	C
ATOM	1619	CZ	PHE	168	41.027	62.362	-7.009	1.00	0.00	C
ATOM	1620	C	PHE	168	35.129	60.388	-7.819	1.00	0.00	C
ATOM	1621	O	PHE	168	35.112	59.880	-8.930	1.00	0.00	O
ATOM	1622	N	THR	169	34.132	60.169	-6.940	1.00	0.00	N
ATOM	1623	HN	THR	169	34.143	60.559	-5.997	1.00	0.00	H
ATOM	1624	CA	THR	169	33.051	59.349	-7.419	1.00	0.00	C
ATOM	1625	CB	THR	169	31.944	59.036	-6.420	1.00	0.00	C

ATOM	1626	OG1	THR	169	30.972	58.220	-7.057	1.00	0.00	O
ATOM	1627	HG1	THR	169	31.404	57.448	-7.403	1.00	0.00	H
ATOM	1628	CG2	THR	169	31.242	60.291	-5.857	1.00	0.00	C
ATOM	1629	C	THR	169	32.403	60.008	-8.593	1.00	0.00	C
ATOM	1630	O	THR	169	32.463	59.496	-9.709	1.00	0.00	O
ATOM	1631	N	GLY	170	31.912	61.240	-8.393	1.00	0.00	N
ATOM	1632	HN	GLY	170	32.088	61.695	-7.497	1.00	0.00	H
ATOM	1633	CA	GLY	170	31.157	61.940	-9.374	1.00	0.00	C
ATOM	1634	C	GLY	170	32.018	62.057	-10.574	1.00	0.00	C
ATOM	1635	O	GLY	170	31.516	62.219	-11.680	1.00	0.00	O
ATOM	1636	N	PHE	171	33.340	62.153	-10.370	1.00	0.00	N
ATOM	1637	HN	PHE	171	33.719	62.186	-9.424	1.00	0.00	H
ATOM	1638	CA	PHE	171	34.208	62.208	-11.504	1.00	0.00	C
ATOM	1639	CB	PHE	171	35.605	62.730	-11.127	1.00	0.00	C
ATOM	1640	CG	PHE	171	36.444	62.763	-12.357	1.00	0.00	C
ATOM	1641	CD1	PHE	171	36.261	63.752	-13.296	1.00	0.00	C
ATOM	1642	CD2	PHE	171	37.428	61.824	-12.565	1.00	0.00	C
ATOM	1643	CE1	PHE	171	37.034	63.794	-14.433	1.00	0.00	C
ATOM	1644	CE2	PHE	171	38.204	61.862	-13.700	1.00	0.00	C
ATOM	1645	CZ	PHE	171	38.008	62.848	-14.638	1.00	0.00	C
ATOM	1646	C	PHE	171	34.385	60.885	-12.182	1.00	0.00	C
ATOM	1647	O	PHE	171	33.834	60.653	-13.248	1.00	0.00	O
ATOM	1648	N	ILE	172	35.004	59.917	-11.487	1.00	0.00	N
ATOM	1649	HN	ILE	172	35.156	60.063	-10.489	1.00	0.00	H
ATOM	1650	CA	ILE	172	35.463	58.692	-12.068	1.00	0.00	C
ATOM	1651	CB	ILE	172	36.130	57.810	-11.031	1.00	0.00	C
ATOM	1652	CG1	ILE	172	37.011	56.755	-11.708	1.00	0.00	C
ATOM	1653	CG2	ILE	172	35.095	57.254	-10.039	1.00	0.00	C
ATOM	1654	CD1	ILE	172	38.281	57.367	-12.296	1.00	0.00	C
ATOM	1655	C	ILE	172	34.296	58.022	-12.725	1.00	0.00	C
ATOM	1656	O	ILE	172	34.352	57.701	-13.910	1.00	0.00	O
ATOM	1657	N	VAL	173	33.180	57.836	-12.006	1.00	0.00	N
ATOM	1658	HN	VAL	173	33.157	58.098	-11.021	1.00	0.00	H
ATOM	1659	CA	VAL	173	32.021	57.269	-12.624	1.00	0.00	C
ATOM	1660	CB	VAL	173	31.003	56.826	-11.615	1.00	0.00	C
ATOM	1661	CG1	VAL	173	29.757	56.316	-12.359	1.00	0.00	C
ATOM	1662	CG2	VAL	173	31.655	55.785	-10.688	1.00	0.00	C
ATOM	1663	C	VAL	173	31.364	58.293	-13.490	1.00	0.00	C
ATOM	1664	O	VAL	173	31.013	58.036	-14.638	1.00	0.00	O
ATOM	1665	N	GLY	174	31.260	59.523	-12.961	1.00	0.00	N
ATOM	1666	HN	GLY	174	31.758	59.722	-12.093	1.00	0.00	H
ATOM	1667	CA	GLY	174	30.485	60.568	-13.556	1.00	0.00	C
ATOM	1668	C	GLY	174	30.933	60.875	-14.943	1.00	0.00	C
ATOM	1669	O	GLY	174	30.158	61.443	-15.697	1.00	0.00	O
ATOM	1670	N	PHE	175	32.224	60.785	-15.267	1.00	0.00	N
ATOM	1671	HN	PHE	175	32.917	60.654	-14.530	1.00	0.00	H
ATOM	1672	CA	PHE	175	32.654	60.869	-16.632	1.00	0.00	C
ATOM	1673	CB	PHE	175	33.968	61.660	-16.734	1.00	0.00	C
ATOM	1674	CG	PHE	175	34.426	61.673	-18.150	1.00	0.00	C
ATOM	1675	CD1	PHE	175	33.842	62.512	-19.070	1.00	0.00	C
ATOM	1676	CD2	PHE	175	35.458	60.855	-18.550	1.00	0.00	C
ATOM	1677	CE1	PHE	175	34.274	62.523	-20.376	1.00	0.00	C
ATOM	1678	CE2	PHE	175	35.893	60.862	-19.854	1.00	0.00	C
ATOM	1679	CZ	PHE	175	35.299	61.697	-20.770	1.00	0.00	C
ATOM	1680	C	PHE	175	32.876	59.535	-17.298	1.00	0.00	C
ATOM	1681	O	PHE	175	32.319	59.222	-18.348	1.00	0.00	O
ATOM	1682	N	THR	176	33.659	58.665	-16.626	1.00	0.00	N
ATOM	1683	HN	THR	176	33.860	58.837	-15.641	1.00	0.00	H
ATOM	1684	CA	THR	176	34.218	57.503	-17.261	1.00	0.00	C
ATOM	1685	CB	THR	176	35.071	56.677	-16.346	1.00	0.00	C
ATOM	1686	OG1	THR	176	36.140	57.458	-15.832	1.00	0.00	O
ATOM	1687	HG1	THR	176	36.681	56.935	-15.252	1.00	0.00	H
ATOM	1688	CG2	THR	176	35.618	55.480	-17.141	1.00	0.00	C
ATOM	1689	C	THR	176	33.164	56.601	-17.794	1.00	0.00	C
ATOM	1690	O	THR	176	33.265	56.138	-18.929	1.00	0.00	O
ATOM	1691	N	ARG	177	32.113	56.321	-17.012	1.00	0.00	N
ATOM	1692	HN	ARG	177	31.981	56.758	-16.100	1.00	0.00	H
ATOM	1693	CA	ARG	177	31.189	55.369	-17.542	1.00	0.00	C
ATOM	1694	CB	ARG	177	30.650	54.384	-16.491	1.00	0.00	C
ATOM	1695	CG	ARG	177	31.658	53.293	-16.126	1.00	0.00	C
ATOM	1696	CD	ARG	177	32.937	53.824	-15.477	1.00	0.00	C
ATOM	1697	NE	ARG	177	33.808	52.650	-15.188	1.00	0.00	N
ATOM	1698	HE	ARG	177	33.786	52.211	-14.267	1.00	0.00	H
ATOM	1699	CZ	ARG	177	34.635	52.163	-16.158	1.00	0.00	C

ATOM	1700	NH1	ARG	177	34.665	52.754	-17.388	1.00	0.00	N
ATOM	1701	1HH1	ARG	177	35.283	52.390	-18.113	1.00	0.00	H
ATOM	1702	2HH1	ARG	177	34.065	53.556	-17.582	1.00	0.00	H
ATOM	1703	NH2	ARG	177	35.438	51.089	-15.898	1.00	0.00	N
ATOM	1704	1HH2	ARG	177	36.056	50.725	-16.623	1.00	0.00	H
ATOM	1705	2HH2	ARG	177	35.416	50.647	-14.979	1.00	0.00	H
ATOM	1706	C	ARG	177	30.029	56.058	-18.153	1.00	0.00	C
ATOM	1707	O	ARG	177	29.190	56.613	-17.451	1.00	0.00	O
ATOM	1708	N	GLY	178	29.900	55.943	-19.487	1.00	0.00	N
ATOM	1709	HN	GLY	178	30.575	55.392	-20.017	1.00	0.00	H
ATOM	1710	CA	GLY	178	28.820	56.590	-20.166	1.00	0.00	C
ATOM	1711	C	GLY	178	29.322	57.328	-21.357	1.00	0.00	C
ATOM	1712	O	GLY	178	28.702	57.207	-22.413	1.00	0.00	O
ATOM	1713	N	TRP	179	30.468	58.039	-21.242	1.00	0.00	N
ATOM	1714	HN	TRP	179	30.964	58.036	-20.351	1.00	0.00	H
ATOM	1715	CA	TRP	179	31.010	58.800	-22.339	1.00	0.00	C
ATOM	1716	CB	TRP	179	31.678	57.898	-23.389	1.00	0.00	C
ATOM	1717	CG	TRP	179	32.832	57.111	-22.811	1.00	0.00	C
ATOM	1718	CD2	TRP	179	33.463	55.993	-23.455	1.00	0.00	C
ATOM	1719	CD1	TRP	179	33.451	57.258	-21.604	1.00	0.00	C
ATOM	1720	NE1	TRP	179	34.423	56.299	-21.452	1.00	0.00	N
ATOM	1721	HE1	TRP	179	35.028	56.188	-20.639	1.00	0.00	H
ATOM	1722	CE2	TRP	179	34.442	55.513	-22.584	1.00	0.00	C
ATOM	1723	CE3	TRP	179	33.238	55.408	-24.668	1.00	0.00	C
ATOM	1724	CZ2	TRP	179	35.215	54.436	-22.914	1.00	0.00	C
ATOM	1725	CZ3	TRP	179	34.027	54.329	-25.000	1.00	0.00	C
ATOM	1726	CH2	TRP	179	34.995	53.851	-24.141	1.00	0.00	C
ATOM	1727	C	TRP	179	29.881	59.564	-22.958	1.00	0.00	C
ATOM	1728	O	TRP	179	29.428	59.226	-24.048	1.00	0.00	O
ATOM	1729	N	LYS	180	29.389	60.584	-22.228	1.00	0.00	N
ATOM	1730	HN	LYS	180	29.867	60.773	-21.347	1.00	0.00	H
ATOM	1731	CA	LYS	180	28.273	61.441	-22.535	1.00	0.00	C
ATOM	1732	CB	LYS	180	28.124	61.703	-24.041	1.00	0.00	C
ATOM	1733	CG	LYS	180	27.241	60.685	-24.761	1.00	0.00	C
ATOM	1734	CD	LYS	180	27.305	60.828	-26.276	1.00	0.00	C
ATOM	1735	CE	LYS	180	28.550	60.157	-26.860	1.00	0.00	C
ATOM	1736	NZ	LYS	180	29.772	60.766	-26.286	1.00	0.00	N
ATOM	1737	HZ1	LYS	180	30.602	60.319	-26.675	1.00	0.00	H
ATOM	1738	HZ2	LYS	180	29.768	60.742	-25.266	1.00	0.00	H
ATOM	1739	HZ3	LYS	180	29.789	61.778	-26.411	1.00	0.00	H
ATOM	1740	C	LYS	180	26.995	60.800	-22.055	1.00	0.00	C
ATOM	1741	O	LYS	180	25.972	61.476	-21.955	1.00	0.00	O
ATOM	1742	N	LEU	181	26.993	59.479	-21.777	1.00	0.00	N
ATOM	1743	HN	LEU	181	27.800	58.916	-22.044	1.00	0.00	H
ATOM	1744	CA	LEU	181	25.885	58.841	-21.114	1.00	0.00	C
ATOM	1745	CB	LEU	181	25.894	57.308	-21.288	1.00	0.00	C
ATOM	1746	CG	LEU	181	24.830	56.544	-20.471	1.00	0.00	C
ATOM	1747	CD1	LEU	181	25.222	56.413	-18.990	1.00	0.00	C
ATOM	1748	CD2	LEU	181	23.445	57.181	-20.637	1.00	0.00	C
ATOM	1749	C	LEU	181	26.033	59.159	-19.678	1.00	0.00	C
ATOM	1750	O	LEU	181	25.082	59.450	-18.958	1.00	0.00	O
ATOM	1751	N	THR	182	27.298	59.109	-19.245	1.00	0.00	N
ATOM	1752	HN	THR	182	28.023	58.833	-19.907	1.00	0.00	H
ATOM	1753	CA	THR	182	27.688	59.419	-17.912	1.00	0.00	C
ATOM	1754	CB	THR	182	29.153	59.285	-17.718	1.00	0.00	C
ATOM	1755	OG1	THR	182	29.391	59.072	-16.342	1.00	0.00	O
ATOM	1756	HG1	THR	182	30.329	58.986	-16.218	1.00	0.00	H
ATOM	1757	CG2	THR	182	29.914	60.507	-18.254	1.00	0.00	C
ATOM	1758	C	THR	182	27.359	60.856	-17.790	1.00	0.00	C
ATOM	1759	O	THR	182	27.185	61.384	-16.692	1.00	0.00	O
ATOM	1760	N	LEU	183	27.402	61.520	-18.960	1.00	0.00	N
ATOM	1761	HN	LEU	183	27.718	60.996	-19.776	1.00	0.00	H
ATOM	1762	CA	LEU	183	27.049	62.883	-19.167	1.00	0.00	C
ATOM	1763	CB	LEU	183	27.473	63.451	-20.532	1.00	0.00	C
ATOM	1764	CG	LEU	183	28.965	63.813	-20.613	1.00	0.00	C
ATOM	1765	CD1	LEU	183	29.278	65.009	-19.702	1.00	0.00	C
ATOM	1766	CD2	LEU	183	29.869	62.608	-20.322	1.00	0.00	C
ATOM	1767	C	LEU	183	25.579	63.014	-19.072	1.00	0.00	C
ATOM	1768	O	LEU	183	25.091	64.070	-18.700	1.00	0.00	O
ATOM	1769	N	VAL	184	24.820	61.983	-19.474	1.00	0.00	N
ATOM	1770	HN	VAL	184	25.242	61.161	-19.906	1.00	0.00	H
ATOM	1771	CA	VAL	184	23.406	62.065	-19.282	1.00	0.00	C
ATOM	1772	CB	VAL	184	22.686	60.800	-19.638	1.00	0.00	C
ATOM	1773	CG1	VAL	184	21.208	60.950	-19.238	1.00	0.00	C

ATOM	1774	CG2	VAL	184	22.904	60.513	-21.133	1.00	0.00	C
ATOM	1775	C	VAL	184	23.284	62.237	-17.811	1.00	0.00	C
ATOM	1776	O	VAL	184	22.495	63.045	-17.325	1.00	0.00	O
ATOM	1777	N	ILE	185	24.130	61.499	-17.068	1.00	0.00	N
ATOM	1778	HN	ILE	185	24.778	60.851	-17.516	1.00	0.00	H
ATOM	1779	CA	ILE	185	24.112	61.632	-15.644	1.00	0.00	C
ATOM	1780	CB	ILE	185	25.144	60.812	-14.916	1.00	0.00	C
ATOM	1781	CG1	ILE	185	24.890	59.302	-15.022	1.00	0.00	C
ATOM	1782	CG2	ILE	185	25.183	61.323	-13.466	1.00	0.00	C
ATOM	1783	CD1	ILE	185	25.305	58.679	-16.346	1.00	0.00	C
ATOM	1784	C	ILE	185	24.465	63.030	-15.294	1.00	0.00	C
ATOM	1785	O	ILE	185	23.641	63.739	-14.727	1.00	0.00	O
ATOM	1786	N	LEU	186	25.638	63.502	-15.759	1.00	0.00	N
ATOM	1787	HN	LEU	186	26.175	62.940	-16.420	1.00	0.00	H
ATOM	1788	CA	LEU	186	26.148	64.778	-15.345	1.00	0.00	C
ATOM	1789	CB	LEU	186	27.436	65.174	-16.089	1.00	0.00	C
ATOM	1790	CG	LEU	186	28.637	64.264	-15.774	1.00	0.00	C
ATOM	1791	CD1	LEU	186	29.892	64.711	-16.539	1.00	0.00	C
ATOM	1792	CD2	LEU	186	28.868	64.147	-14.260	1.00	0.00	C
ATOM	1793	C	LEU	186	25.119	65.817	-15.654	1.00	0.00	C
ATOM	1794	O	LEU	186	24.892	66.729	-14.861	1.00	0.00	O
ATOM	1795	N	ALA	187	24.481	65.729	-16.830	1.00	0.00	N
ATOM	1796	HN	ALA	187	24.682	64.968	-17.478	1.00	0.00	H
ATOM	1797	CA	ALA	187	23.514	66.726	-17.152	1.00	0.00	C
ATOM	1798	CB	ALA	187	23.043	66.637	-18.612	1.00	0.00	C
ATOM	1799	C	ALA	187	22.286	66.655	-16.297	1.00	0.00	C
ATOM	1800	O	ALA	187	22.109	67.472	-15.403	1.00	0.00	O
ATOM	1801	N	ILE	188	21.464	65.599	-16.433	1.00	0.00	N
ATOM	1802	HN	ILE	188	21.712	64.807	-17.026	1.00	0.00	H
ATOM	1803	CA	ILE	188	20.226	65.632	-15.711	1.00	0.00	C
ATOM	1804	CB	ILE	188	19.268	64.557	-16.178	1.00	0.00	C
ATOM	1805	CG1	ILE	188	19.878	63.140	-16.153	1.00	0.00	C
ATOM	1806	CG2	ILE	188	18.769	64.974	-17.570	1.00	0.00	C
ATOM	1807	CD1	ILE	188	19.898	62.431	-14.802	1.00	0.00	C
ATOM	1808	C	ILE	188	20.495	65.579	-14.246	1.00	0.00	C
ATOM	1809	O	ILE	188	20.037	66.438	-13.494	1.00	0.00	O
ATOM	1810	N	SER	189	21.328	64.626	-13.808	1.00	0.00	N
ATOM	1811	HN	SER	189	21.811	64.016	-14.467	1.00	0.00	H
ATOM	1812	CA	SER	189	21.527	64.480	-12.402	1.00	0.00	C
ATOM	1813	CB	SER	189	22.330	63.218	-12.019	1.00	0.00	C
ATOM	1814	OG	SER	189	21.616	62.054	-12.410	1.00	0.00	O
ATOM	1815	HG	SER	189	22.110	61.278	-12.174	1.00	0.00	H
ATOM	1816	C	SER	189	22.122	65.732	-11.824	1.00	0.00	C
ATOM	1817	O	SER	189	21.419	66.379	-11.053	1.00	0.00	O
ATOM	1818	N	PRO	190	23.306	66.194	-12.171	1.00	0.00	N
ATOM	1819	CA	PRO	190	23.775	67.386	-11.517	1.00	0.00	C
ATOM	1820	CD	PRO	190	24.425	65.314	-12.483	1.00	0.00	C
ATOM	1821	CB	PRO	190	25.226	67.554	-11.953	1.00	0.00	C
ATOM	1822	CG	PRO	190	25.699	66.097	-12.114	1.00	0.00	C
ATOM	1823	C	PRO	190	22.886	68.579	-11.711	1.00	0.00	C
ATOM	1824	O	PRO	190	22.954	69.483	-10.880	1.00	0.00	O
ATOM	1825	N	VAL	191	22.077	68.633	-12.789	1.00	0.00	N
ATOM	1826	HN	VAL	191	22.108	67.894	-13.491	1.00	0.00	H
ATOM	1827	CA	VAL	191	21.170	69.740	-12.943	1.00	0.00	C
ATOM	1828	CB	VAL	191	20.510	69.809	-14.289	1.00	0.00	C
ATOM	1829	CG1	VAL	191	19.395	70.867	-14.228	1.00	0.00	C
ATOM	1830	CG2	VAL	191	21.588	70.156	-15.330	1.00	0.00	C
ATOM	1831	C	VAL	191	20.091	69.672	-11.906	1.00	0.00	C
ATOM	1832	O	VAL	191	19.790	70.673	-11.257	1.00	0.00	O
ATOM	1833	N	LEU	192	19.479	68.486	-11.707	1.00	0.00	N
ATOM	1834	HN	LEU	192	19.753	67.666	-12.249	1.00	0.00	H
ATOM	1835	CA	LEU	192	18.438	68.393	-10.723	1.00	0.00	C
ATOM	1836	CB	LEU	192	17.791	66.997	-10.620	1.00	0.00	C
ATOM	1837	CG	LEU	192	16.753	66.676	-11.718	1.00	0.00	C
ATOM	1838	CD1	LEU	192	15.507	67.562	-11.570	1.00	0.00	C
ATOM	1839	CD2	LEU	192	17.343	66.746	-13.130	1.00	0.00	C
ATOM	1840	C	LEU	192	19.060	68.704	-9.406	1.00	0.00	C
ATOM	1841	O	LEU	192	18.526	69.484	-8.620	1.00	0.00	O
ATOM	1842	N	GLY	193	20.265	68.158	-9.179	1.00	0.00	N
ATOM	1843	HN	GLY	193	20.706	67.608	-9.916	1.00	0.00	H
ATOM	1844	CA	GLY	193	20.949	68.324	-7.934	1.00	0.00	C
ATOM	1845	C	GLY	193	21.097	69.786	-7.707	1.00	0.00	C
ATOM	1846	O	GLY	193	21.131	70.240	-6.566	1.00	0.00	O
ATOM	1847	N	LEU	194	21.248	70.553	-8.800	1.00	0.00	N

ATOM	1848	HN	LEU	194	21.259	70.116	-9.722	1.00	0.00	H
ATOM	1849	CA	LEU	194	21.393	71.971	-8.693	1.00	0.00	C
ATOM	1850	CB	LEU	194	21.671	72.616	-10.063	1.00	0.00	C
ATOM	1851	CG	LEU	194	21.846	74.144	-10.031	1.00	0.00	C
ATOM	1852	CD1	LEU	194	20.510	74.892	-9.876	1.00	0.00	C
ATOM	1853	CD2	LEU	194	22.876	74.541	-8.962	1.00	0.00	C
ATOM	1854	C	LEU	194	20.132	72.554	-8.131	1.00	0.00	C
ATOM	1855	O	LEU	194	20.180	73.361	-7.206	1.00	0.00	O
ATOM	1856	N	SER	195	18.958	72.144	-8.648	1.00	0.00	N
ATOM	1857	HN	SER	195	18.937	71.427	-9.373	1.00	0.00	H
ATOM	1858	CA	SER	195	17.735	72.727	-8.168	1.00	0.00	C
ATOM	1859	CB	SER	195	16.483	72.178	-8.879	1.00	0.00	C
ATOM	1860	OG	SER	195	16.302	70.804	-8.570	1.00	0.00	O
ATOM	1861	HG	SER	195	15.530	70.466	-9.008	1.00	0.00	H
ATOM	1862	C	SER	195	17.607	72.393	-6.718	1.00	0.00	C
ATOM	1863	O	SER	195	17.160	73.213	-5.918	1.00	0.00	O
ATOM	1864	N	ALA	196	17.993	71.161	-6.342	1.00	0.00	N
ATOM	1865	HN	ALA	196	18.368	70.513	-7.035	1.00	0.00	H
ATOM	1866	CA	ALA	196	17.881	70.753	-4.975	1.00	0.00	C
ATOM	1867	CB	ALA	196	18.271	69.281	-4.756	1.00	0.00	C
ATOM	1868	C	ALA	196	18.791	71.582	-4.122	1.00	0.00	C
ATOM	1869	O	ALA	196	18.387	72.093	-3.081	1.00	0.00	O
ATOM	1870	N	ALA	197	20.047	71.776	-4.555	1.00	0.00	N
ATOM	1871	HN	ALA	197	20.342	71.432	-5.469	1.00	0.00	H
ATOM	1872	CA	ALA	197	20.964	72.476	-3.706	1.00	0.00	C
ATOM	1873	CB	ALA	197	22.371	72.589	-4.316	1.00	0.00	C
ATOM	1874	C	ALA	197	20.459	73.866	-3.483	1.00	0.00	C
ATOM	1875	O	ALA	197	20.432	74.337	-2.348	1.00	0.00	O
ATOM	1876	N	VAL	198	20.038	74.558	-4.559	1.00	0.00	N
ATOM	1877	HN	VAL	198	20.019	74.102	-5.471	1.00	0.00	H
ATOM	1878	CA	VAL	198	19.615	75.925	-4.446	1.00	0.00	C
ATOM	1879	CB	VAL	198	19.330	76.553	-5.778	1.00	0.00	C
ATOM	1880	CG1	VAL	198	18.770	77.967	-5.542	1.00	0.00	C
ATOM	1881	CG2	VAL	198	20.612	76.512	-6.626	1.00	0.00	C
ATOM	1882	C	VAL	198	18.357	76.070	-3.650	1.00	0.00	C
ATOM	1883	O	VAL	198	18.346	76.735	-2.620	1.00	0.00	O
ATOM	1884	N	TRP	199	17.264	75.409	-4.068	1.00	0.00	N
ATOM	1885	HN	TRP	199	17.327	74.732	-4.829	1.00	0.00	H
ATOM	1886	CA	TRP	199	16.006	75.671	-3.426	1.00	0.00	C
ATOM	1887	CB	TRP	199	14.823	74.897	-4.048	1.00	0.00	C
ATOM	1888	CG	TRP	199	13.445	75.393	-3.645	1.00	0.00	C
ATOM	1889	CD2	TRP	199	12.743	75.062	-2.433	1.00	0.00	C
ATOM	1890	CD1	TRP	199	12.626	76.233	-4.342	1.00	0.00	C
ATOM	1891	NE1	TRP	199	11.461	76.445	-3.646	1.00	0.00	N
ATOM	1892	HE1	TRP	199	10.684	77.032	-3.950	1.00	0.00	H
ATOM	1893	CE2	TRP	199	11.519	75.732	-2.469	1.00	0.00	C
ATOM	1894	CE3	TRP	199	13.085	74.269	-1.377	1.00	0.00	C
ATOM	1895	CZ2	TRP	199	10.619	75.617	-1.448	1.00	0.00	C
ATOM	1896	CZ3	TRP	199	12.175	74.156	-0.349	1.00	0.00	C
ATOM	1897	CH2	TRP	199	10.965	74.817	-0.383	1.00	0.00	C
ATOM	1898	C	TRP	199	16.100	75.258	-1.992	1.00	0.00	C
ATOM	1899	O	TRP	199	15.715	76.005	-1.097	1.00	0.00	O
ATOM	1900	N	ALA	200	16.629	74.051	-1.725	1.00	0.00	N
ATOM	1901	HN	ALA	200	16.999	73.469	-2.476	1.00	0.00	H
ATOM	1902	CA	ALA	200	16.663	73.598	-0.369	1.00	0.00	C
ATOM	1903	CB	ALA	200	17.233	72.177	-0.242	1.00	0.00	C
ATOM	1904	C	ALA	200	17.528	74.503	0.456	1.00	0.00	C
ATOM	1905	O	ALA	200	17.119	74.978	1.513	1.00	0.00	O
ATOM	1906	N	LYS	201	18.741	74.812	-0.026	1.00	0.00	N
ATOM	1907	HN	LYS	201	19.017	74.483	-0.951	1.00	0.00	H
ATOM	1908	CA	LYS	201	19.653	75.601	0.748	1.00	0.00	C
ATOM	1909	CB	LYS	201	21.057	75.679	0.126	1.00	0.00	C
ATOM	1910	CG	LYS	201	21.738	74.309	0.060	1.00	0.00	C
ATOM	1911	CD	LYS	201	21.812	73.596	1.412	1.00	0.00	C
ATOM	1912	CE	LYS	201	22.273	72.140	1.311	1.00	0.00	C
ATOM	1913	NZ	LYS	201	22.286	71.519	2.654	1.00	0.00	N
ATOM	1914	HZ1	LYS	201	22.593	70.549	2.587	1.00	0.00	H
ATOM	1915	HZ2	LYS	201	21.384	71.603	3.123	1.00	0.00	H
ATOM	1916	HZ3	LYS	201	22.848	72.053	3.317	1.00	0.00	H
ATOM	1917	C	LYS	201	19.111	76.980	0.907	1.00	0.00	C
ATOM	1918	O	LYS	201	19.312	77.610	1.944	1.00	0.00	O
ATOM	1919	N	ILE	202	18.415	77.498	-0.122	1.00	0.00	N
ATOM	1920	HN	ILE	202	18.229	76.947	-0.960	1.00	0.00	H
ATOM	1921	CA	ILE	202	17.944	78.843	-0.005	1.00	0.00	C

ATOM	1922	CB	ILE	202	17.293	79.415	-1.238	1.00	0.00	C
ATOM	1923	CG1	ILE	202	16.008	78.672	-1.630	1.00	0.00	C
ATOM	1924	CG2	ILE	202	18.356	79.462	-2.343	1.00	0.00	C
ATOM	1925	CD1	ILE	202	15.190	79.395	-2.700	1.00	0.00	C
ATOM	1926	C	ILE	202	16.967	78.893	1.114	1.00	0.00	C
ATOM	1927	O	ILE	202	17.001	79.794	1.947	1.00	0.00	O
ATOM	1928	N	LEU	203	16.083	77.893	1.172	1.00	0.00	N
ATOM	1929	HN	LEU	203	16.127	77.149	0.476	1.00	0.00	H
ATOM	1930	CA	LEU	203	15.084	77.842	2.179	1.00	0.00	C
ATOM	1931	CB	LEU	203	14.165	76.642	1.931	1.00	0.00	C
ATOM	1932	CG	LEU	203	12.954	76.539	2.857	1.00	0.00	C
ATOM	1933	CD1	LEU	203	12.086	77.808	2.799	1.00	0.00	C
ATOM	1934	CD2	LEU	203	12.158	75.280	2.499	1.00	0.00	C
ATOM	1935	C	LEU	203	15.786	77.703	3.491	1.00	0.00	C
ATOM	1936	O	LEU	203	15.395	78.326	4.471	1.00	0.00	O
ATOM	1937	N	SER	204	16.874	76.911	3.540	1.00	0.00	N
ATOM	1938	HN	SER	204	17.210	76.464	2.687	1.00	0.00	H
ATOM	1939	CA	SER	204	17.569	76.686	4.779	1.00	0.00	C
ATOM	1940	CB	SER	204	18.825	75.813	4.608	1.00	0.00	C
ATOM	1941	OG	SER	204	18.463	74.510	4.172	1.00	0.00	O
ATOM	1942	HG	SER	204	19.238	73.971	4.066	1.00	0.00	H
ATOM	1943	C	SER	204	18.008	78.003	5.339	1.00	0.00	C
ATOM	1944	O	SER	204	17.852	78.266	6.530	1.00	0.00	O
ATOM	1945	N	SER	205	18.572	78.882	4.496	1.00	0.00	N
ATOM	1946	HN	SER	205	18.704	78.642	3.513	1.00	0.00	H
ATOM	1947	CA	SER	205	18.987	80.161	4.991	1.00	0.00	C
ATOM	1948	CB	SER	205	19.623	81.028	3.900	1.00	0.00	C
ATOM	1949	OG	SER	205	19.800	82.344	4.393	1.00	0.00	O
ATOM	1950	HG	SER	205	20.194	82.882	3.716	1.00	0.00	H
ATOM	1951	C	SER	205	17.753	80.865	5.441	1.00	0.00	C
ATOM	1952	O	SER	205	17.738	81.557	6.457	1.00	0.00	O
ATOM	1953	N	PHE	206	16.662	80.646	4.695	1.00	0.00	N
ATOM	1954	HN	PHE	206	16.728	79.997	3.911	1.00	0.00	H
ATOM	1955	CA	PHE	206	15.410	81.284	4.953	1.00	0.00	C
ATOM	1956	CB	PHE	206	14.322	80.858	3.950	1.00	0.00	C
ATOM	1957	CG	PHE	206	13.070	81.610	4.252	1.00	0.00	C
ATOM	1958	CD1	PHE	206	12.976	82.949	3.946	1.00	0.00	C
ATOM	1959	CD2	PHE	206	11.983	80.981	4.814	1.00	0.00	C
ATOM	1960	CE1	PHE	206	11.826	83.652	4.214	1.00	0.00	C
ATOM	1961	CE2	PHE	206	10.828	81.678	5.083	1.00	0.00	C
ATOM	1962	CZ	PHE	206	10.749	83.018	4.785	1.00	0.00	C
ATOM	1963	C	PHE	206	14.966	80.893	6.328	1.00	0.00	C
ATOM	1964	O	PHE	206	14.412	81.715	7.055	1.00	0.00	O
ATOM	1965	N	THR	207	15.182	79.623	6.721	1.00	0.00	N
ATOM	1966	HN	THR	207	15.674	78.973	6.108	1.00	0.00	H
ATOM	1967	CA	THR	207	14.717	79.192	8.005	1.00	0.00	C
ATOM	1968	CB	THR	207	14.841	77.710	8.260	1.00	0.00	C
ATOM	1969	OG1	THR	207	14.015	77.343	9.355	1.00	0.00	O
ATOM	1970	HG1	THR	207	13.115	77.570	9.155	1.00	0.00	H
ATOM	1971	CG2	THR	207	16.297	77.343	8.584	1.00	0.00	C
ATOM	1972	C	THR	207	15.454	79.929	9.080	1.00	0.00	C
ATOM	1973	O	THR	207	14.848	80.381	10.050	1.00	0.00	O
ATOM	1974	N	ASP	208	16.781	80.102	8.925	1.00	0.00	N
ATOM	1975	HN	ASP	208	17.242	79.784	8.073	1.00	0.00	H
ATOM	1976	CA	ASP	208	17.543	80.735	9.963	1.00	0.00	C
ATOM	1977	CB	ASP	208	19.044	80.819	9.632	1.00	0.00	C
ATOM	1978	CG	ASP	208	19.807	81.099	10.921	1.00	0.00	C
ATOM	1979	OD1	ASP	208	19.207	81.692	11.856	1.00	0.00	O
ATOM	1980	OD2	ASP	208	21.006	80.716	10.986	1.00	0.00	O
ATOM	1981	C	ASP	208	17.016	82.124	10.134	1.00	0.00	C
ATOM	1982	O	ASP	208	16.794	82.582	11.254	1.00	0.00	O
ATOM	1983	N	LYS	209	16.744	82.816	9.013	1.00	0.00	N
ATOM	1984	HN	LYS	209	16.891	82.384	8.101	1.00	0.00	H
ATOM	1985	CA	LYS	209	16.248	84.157	9.097	1.00	0.00	C
ATOM	1986	CB	LYS	209	15.837	84.752	7.749	1.00	0.00	C
ATOM	1987	CG	LYS	209	15.011	86.013	7.983	1.00	0.00	C
ATOM	1988	CD	LYS	209	14.520	86.721	6.731	1.00	0.00	C
ATOM	1989	CE	LYS	209	13.338	87.628	7.065	1.00	0.00	C
ATOM	1990	NZ	LYS	209	12.247	86.823	7.662	1.00	0.00	N
ATOM	1991	HZ1	LYS	209	11.457	87.429	7.885	1.00	0.00	H
ATOM	1992	HZ2	LYS	209	12.562	86.288	8.471	1.00	0.00	H
ATOM	1993	HZ3	LYS	209	11.976	86.041	7.066	1.00	0.00	H
ATOM	1994	C	LYS	209	14.979	84.118	9.880	1.00	0.00	C
ATOM	1995	O	LYS	209	14.712	85.000	10.695	1.00	0.00	O

ATOM	1996	N	GLU	210	14.156	83.080	9.653	1.00	0.00	N
ATOM	1997	HN	GLU	210	14.421	82.348	8.994	1.00	0.00	H
ATOM	1998	CA	GLU	210	12.905	83.010	10.343	1.00	0.00	C
ATOM	1999	CB	GLU	210	12.069	81.771	9.981	1.00	0.00	C
ATOM	2000	CG	GLU	210	11.355	81.902	8.637	1.00	0.00	C
ATOM	2001	CD	GLU	210	10.368	83.055	8.769	1.00	0.00	C
ATOM	2002	OE1	GLU	210	10.833	84.204	8.994	1.00	0.00	O
ATOM	2003	OE2	GLU	210	9.139	82.802	8.655	1.00	0.00	O
ATOM	2004	C	GLU	210	13.186	82.962	11.807	1.00	0.00	C
ATOM	2005	O	GLU	210	12.484	83.593	12.594	1.00	0.00	O
ATOM	2006	N	LEU	211	14.235	82.221	12.206	1.00	0.00	N
ATOM	2007	HN	LEU	211	14.802	81.748	11.503	1.00	0.00	H
ATOM	2008	CA	LEU	211	14.580	82.076	13.591	1.00	0.00	C
ATOM	2009	CB	LEU	211	15.753	81.100	13.804	1.00	0.00	C
ATOM	2010	CG	LEU	211	15.392	79.633	13.503	1.00	0.00	C
ATOM	2011	CD1	LEU	211	16.589	78.695	13.727	1.00	0.00	C
ATOM	2012	CD2	LEU	211	14.161	79.202	14.315	1.00	0.00	C
ATOM	2013	C	LEU	211	14.965	83.404	14.187	1.00	0.00	C
ATOM	2014	O	LEU	211	14.606	83.697	15.326	1.00	0.00	O
ATOM	2015	N	LEU	212	15.711	84.245	13.440	1.00	0.00	N
ATOM	2016	HN	LEU	212	15.941	83.981	12.482	1.00	0.00	H
ATOM	2017	CA	LEU	212	16.193	85.503	13.951	1.00	0.00	C
ATOM	2018	CB	LEU	212	17.097	86.225	12.925	1.00	0.00	C
ATOM	2019	CG	LEU	212	17.681	87.586	13.367	1.00	0.00	C
ATOM	2020	CD1	LEU	212	16.629	88.707	13.418	1.00	0.00	C
ATOM	2021	CD2	LEU	212	18.461	87.441	14.683	1.00	0.00	C
ATOM	2022	C	LEU	212	15.033	86.394	14.275	1.00	0.00	C
ATOM	2023	O	LEU	212	14.970	86.978	15.356	1.00	0.00	O
ATOM	2024	N	ALA	213	14.059	86.494	13.356	1.00	0.00	N
ATOM	2025	HN	ALA	213	14.125	85.960	12.489	1.00	0.00	H
ATOM	2026	CA	ALA	213	12.925	87.346	13.582	1.00	0.00	C
ATOM	2027	CB	ALA	213	11.891	87.289	12.443	1.00	0.00	C
ATOM	2028	C	ALA	213	12.268	86.830	14.818	1.00	0.00	C
ATOM	2029	O	ALA	213	11.735	87.586	15.628	1.00	0.00	O
ATOM	2030	N	TYR	214	12.307	85.499	14.986	1.00	0.00	N
ATOM	2031	HN	TYR	214	12.768	84.933	14.273	1.00	0.00	H
ATOM	2032	CA	TYR	214	11.734	84.836	16.115	1.00	0.00	C
ATOM	2033	CB	TYR	214	11.977	83.317	16.000	1.00	0.00	C
ATOM	2034	CG	TYR	214	11.761	82.612	17.291	1.00	0.00	C
ATOM	2035	CD1	TYR	214	10.528	82.125	17.638	1.00	0.00	C
ATOM	2036	CD2	TYR	214	12.816	82.426	18.153	1.00	0.00	C
ATOM	2037	CE1	TYR	214	10.358	81.469	18.833	1.00	0.00	C
ATOM	2038	CE2	TYR	214	12.650	81.770	19.349	1.00	0.00	C
ATOM	2039	CZ	TYR	214	11.413	81.289	19.692	1.00	0.00	C
ATOM	2040	OH	TYR	214	11.228	80.613	20.916	1.00	0.00	O
ATOM	2041	HH	TYR	214	11.958	80.488	21.511	1.00	0.00	H
ATOM	2042	C	TYR	214	12.363	85.370	17.375	1.00	0.00	C
ATOM	2043	O	TYR	214	11.665	85.702	18.331	1.00	0.00	O
ATOM	2044	N	ALA	215	13.699	85.522	17.404	1.00	0.00	N
ATOM	2045	HN	ALA	215	14.242	85.325	16.564	1.00	0.00	H
ATOM	2046	CA	ALA	215	14.379	85.958	18.598	1.00	0.00	C
ATOM	2047	CB	ALA	215	15.905	86.030	18.413	1.00	0.00	C
ATOM	2048	C	ALA	215	13.913	87.326	18.996	1.00	0.00	C
ATOM	2049	O	ALA	215	13.733	87.605	20.182	1.00	0.00	O
ATOM	2050	N	LYS	216	13.706	88.219	18.011	1.00	0.00	N
ATOM	2051	HN	LYS	216	13.838	87.927	17.043	1.00	0.00	H
ATOM	2052	CA	LYS	216	13.305	89.573	18.282	1.00	0.00	C
ATOM	2053	CB	LYS	216	13.045	90.362	16.985	1.00	0.00	C
ATOM	2054	CG	LYS	216	14.263	90.554	16.075	1.00	0.00	C
ATOM	2055	CD	LYS	216	15.334	91.508	16.612	1.00	0.00	C
ATOM	2056	CE	LYS	216	16.125	90.980	17.810	1.00	0.00	C
ATOM	2057	NZ	LYS	216	15.452	91.362	19.071	1.00	0.00	N
ATOM	2058	HZ1	LYS	216	15.979	91.010	19.870	1.00	0.00	H
ATOM	2059	HZ2	LYS	216	14.479	91.057	19.092	1.00	0.00	H
ATOM	2060	HZ3	LYS	216	15.295	92.368	19.130	1.00	0.00	H
ATOM	2061	C	LYS	216	11.991	89.533	18.997	1.00	0.00	C
ATOM	2062	O	LYS	216	11.781	90.209	20.004	1.00	0.00	O
ATOM	2063	N	ALA	217	11.078	88.689	18.495	1.00	0.00	N
ATOM	2064	HN	ALA	217	11.347	88.086	17.718	1.00	0.00	H
ATOM	2065	CA	ALA	217	9.743	88.597	19.002	1.00	0.00	C
ATOM	2066	CB	ALA	217	8.911	87.550	18.246	1.00	0.00	C
ATOM	2067	C	ALA	217	9.793	88.173	20.436	1.00	0.00	C
ATOM	2068	O	ALA	217	8.960	88.587	21.241	1.00	0.00	O
ATOM	2069	N	GLY	218	10.757	87.297	20.769	1.00	0.00	N

ATOM	2070	HN	GLY	218	11.411	87.011	20.041	1.00	0.00	H
ATOM	2071	CA	GLY	218	10.929	86.735	22.083	1.00	0.00	C
ATOM	2072	C	GLY	218	11.299	87.768	23.119	1.00	0.00	C
ATOM	2073	O	GLY	218	10.929	87.637	24.285	1.00	0.00	O
ATOM	2074	N	ALA	219	12.127	88.768	22.763	1.00	0.00	N
ATOM	2075	HN	ALA	219	12.490	88.809	21.811	1.00	0.00	H
ATOM	2076	CA	ALA	219	12.505	89.781	23.716	1.00	0.00	C
ATOM	2077	CB	ALA	219	13.572	90.738	23.160	1.00	0.00	C
ATOM	2078	C	ALA	219	11.299	90.597	24.060	1.00	0.00	C
ATOM	2079	O	ALA	219	11.061	90.932	25.220	1.00	0.00	O
ATOM	2080	N	VAL	220	10.503	90.924	23.026	1.00	0.00	N
ATOM	2081	HN	VAL	220	10.783	90.621	22.093	1.00	0.00	H
ATOM	2082	CA	VAL	220	9.286	91.672	23.152	1.00	0.00	C
ATOM	2083	CB	VAL	220	8.620	91.954	21.836	1.00	0.00	C
ATOM	2084	CG1	VAL	220	7.301	92.695	22.110	1.00	0.00	C
ATOM	2085	CG2	VAL	220	9.595	92.739	20.942	1.00	0.00	C
ATOM	2086	C	VAL	220	8.377	90.800	23.948	1.00	0.00	C
ATOM	2087	O	VAL	220	7.327	91.219	24.428	1.00	0.00	O
ATOM	2088	N	ALA	221	8.694	89.499	23.961	1.00	0.00	N
ATOM	2089	HN	ALA	221	9.466	89.181	23.375	1.00	0.00	H
ATOM	2090	CA	ALA	221	8.003	88.538	24.756	1.00	0.00	C
ATOM	2091	CB	ALA	221	8.268	87.072	24.366	1.00	0.00	C
ATOM	2092	C	ALA	221	8.333	88.726	26.223	1.00	0.00	C
ATOM	2093	O	ALA	221	7.598	88.231	27.074	1.00	0.00	O
ATOM	2094	N	GLU	222	9.533	89.269	26.552	1.00	0.00	N
ATOM	2095	HN	GLU	222	10.149	89.575	25.799	1.00	0.00	H
ATOM	2096	CA	GLU	222	9.982	89.435	27.920	1.00	0.00	C
ATOM	2097	CB	GLU	222	11.508	89.607	27.978	1.00	0.00	C
ATOM	2098	CG	GLU	222	12.027	89.956	29.369	1.00	0.00	C
ATOM	2099	CD	GLU	222	11.663	88.828	30.319	1.00	0.00	C
ATOM	2100	OE1	GLU	222	11.073	87.816	29.852	1.00	0.00	O
ATOM	2101	OE2	GLU	222	11.976	88.968	31.531	1.00	0.00	O
ATOM	2102	C	GLU	222	9.381	90.546	28.769	1.00	0.00	C
ATOM	2103	O	GLU	222	8.589	90.279	29.671	1.00	0.00	O
ATOM	2104	N	GLU	223	9.687	91.835	28.478	1.00	0.00	N
ATOM	2105	HN	GLU	223	10.249	92.040	27.652	1.00	0.00	H
ATOM	2106	CA	GLU	223	9.231	92.929	29.317	1.00	0.00	C
ATOM	2107	CB	GLU	223	7.704	93.114	29.306	1.00	0.00	C
ATOM	2108	CG	GLU	223	7.170	93.645	27.973	1.00	0.00	C
ATOM	2109	CD	GLU	223	7.362	92.566	26.918	1.00	0.00	C
ATOM	2110	OE1	GLU	223	8.447	92.559	26.277	1.00	0.00	O
ATOM	2111	OE2	GLU	223	6.430	91.736	26.744	1.00	0.00	O
ATOM	2112	C	GLU	223	9.686	92.745	30.752	1.00	0.00	C
ATOM	2113	O	GLU	223	10.430	91.817	31.058	1.00	0.00	O
ATOM	2114	N	VAL	224	9.293	93.676	31.666	1.00	0.00	N
ATOM	2115	HN	VAL	224	8.715	94.455	31.351	1.00	0.00	H
ATOM	2116	CA	VAL	224	9.661	93.607	33.065	1.00	0.00	C
ATOM	2117	CB	VAL	224	9.586	94.924	33.786	1.00	0.00	C
ATOM	2118	CG1	VAL	224	9.785	94.663	35.290	1.00	0.00	C
ATOM	2119	CG2	VAL	224	10.645	95.870	33.192	1.00	0.00	C
ATOM	2120	C	VAL	224	8.762	92.642	33.782	1.00	0.00	C
ATOM	2121	O	VAL	224	7.573	92.536	33.489	1.00	0.00	O
ATOM	2122	N	LEU	225	9.395	91.750	34.564	1.00	0.00	N
ATOM	2123	HN	LEU	225	10.414	91.791	34.547	1.00	0.00	H
ATOM	2124	CA	LEU	225	8.825	90.745	35.421	1.00	0.00	C
ATOM	2125	CB	LEU	225	9.492	89.394	35.121	1.00	0.00	C
ATOM	2126	CG	LEU	225	9.095	88.833	33.729	1.00	0.00	C
ATOM	2127	CD1	LEU	225	9.325	89.801	32.557	1.00	0.00	C
ATOM	2128	CD2	LEU	225	9.846	87.535	33.457	1.00	0.00	C
ATOM	2129	C	LEU	225	8.818	91.053	36.899	1.00	0.00	C
ATOM	2130	O	LEU	225	8.129	90.380	37.663	1.00	0.00	O
ATOM	2131	N	ALA	226	9.697	91.974	37.349	1.00	0.00	N
ATOM	2132	HN	ALA	226	10.217	92.507	36.652	1.00	0.00	H
ATOM	2133	CA	ALA	226	9.960	92.265	38.744	1.00	0.00	C
ATOM	2134	CB	ALA	226	11.407	92.720	38.998	1.00	0.00	C
ATOM	2135	C	ALA	226	9.073	93.354	39.268	1.00	0.00	C
ATOM	2136	O	ALA	226	8.089	93.729	38.637	1.00	0.00	O
ATOM	2137	N	ALA	227	9.414	93.858	40.483	1.00	0.00	N
ATOM	2138	HN	ALA	227	10.237	93.471	40.946	1.00	0.00	H
ATOM	2139	CA	ALA	227	8.689	94.903	41.160	1.00	0.00	C
ATOM	2140	CB	ALA	227	8.539	96.176	40.311	1.00	0.00	C
ATOM	2141	C	ALA	227	7.336	94.358	41.427	1.00	0.00	C
ATOM	2142	O	ALA	227	6.365	95.071	41.663	1.00	0.00	O
ATOM	2143	N	ILE	228	7.301	93.032	41.512	1.00	0.00	N

ATOM	2144	HN	ILE	228	8.196	92.543	41.501	1.00	0.00	H
ATOM	2145	CA	ILE	228	6.129	92.234	41.617	1.00	0.00	C
ATOM	2146	CB	ILE	228	6.510	90.778	41.678	1.00	0.00	C
ATOM	2147	CG1	ILE	228	5.352	89.834	41.315	1.00	0.00	C
ATOM	2148	CG2	ILE	228	7.140	90.529	43.056	1.00	0.00	C
ATOM	2149	CD1	ILE	228	4.168	89.864	42.268	1.00	0.00	C
ATOM	2150	C	ILE	228	5.339	92.623	42.827	1.00	0.00	C
ATOM	2151	O	ILE	228	4.120	92.554	42.773	1.00	0.00	O
ATOM	2152	N	ARG	229	5.959	93.019	43.957	1.00	0.00	N
ATOM	2153	HN	ARG	229	6.975	93.093	44.004	1.00	0.00	H
ATOM	2154	CA	ARG	229	5.133	93.335	45.099	1.00	0.00	C
ATOM	2155	CB	ARG	229	5.935	93.790	46.331	1.00	0.00	C
ATOM	2156	CG	ARG	229	5.046	94.067	47.547	1.00	0.00	C
ATOM	2157	CD	ARG	229	5.817	94.390	48.828	1.00	0.00	C
ATOM	2158	NE	ARG	229	6.273	95.805	48.740	1.00	0.00	N
ATOM	2159	HE	ARG	229	6.615	96.180	47.855	1.00	0.00	H
ATOM	2160	CZ	ARG	229	6.230	96.596	49.852	1.00	0.00	C
ATOM	2161	NH1	ARG	229	5.740	96.095	51.024	1.00	0.00	N
ATOM	2162	1HH1	ARG	229	5.708	96.686	51.855	1.00	0.00	H
ATOM	2163	2HH1	ARG	229	5.407	95.132	51.069	1.00	0.00	H
ATOM	2164	NH2	ARG	229	6.675	97.884	49.792	1.00	0.00	N
ATOM	2165	1HH2	ARG	229	6.643	98.475	50.623	1.00	0.00	H
ATOM	2166	2HH2	ARG	229	7.041	98.258	48.917	1.00	0.00	H
ATOM	2167	C	ARG	229	4.217	94.450	44.714	1.00	0.00	C
ATOM	2168	O	ARG	229	3.010	94.382	44.939	1.00	0.00	O
ATOM	2169	N	THR	230	4.762	95.476	44.042	1.00	0.00	N
ATOM	2170	HN	THR	230	5.758	95.475	43.824	1.00	0.00	H
ATOM	2171	CA	THR	230	3.940	96.569	43.634	1.00	0.00	C
ATOM	2172	CB	THR	230	4.710	97.625	42.900	1.00	0.00	C
ATOM	2173	OG1	THR	230	5.755	98.125	43.721	1.00	0.00	O
ATOM	2174	HG1	THR	230	6.350	97.423	43.956	1.00	0.00	H
ATOM	2175	CG2	THR	230	3.747	98.762	42.519	1.00	0.00	C
ATOM	2176	C	THR	230	2.918	96.024	42.687	1.00	0.00	C
ATOM	2177	O	THR	230	1.767	96.460	42.685	1.00	0.00	O
ATOM	2178	N	VAL	231	3.325	95.065	41.834	1.00	0.00	N
ATOM	2179	HN	VAL	231	4.284	94.720	41.882	1.00	0.00	H
ATOM	2180	CA	VAL	231	2.421	94.521	40.854	1.00	0.00	C
ATOM	2181	CB	VAL	231	3.033	93.789	39.679	1.00	0.00	C
ATOM	2182	CG1	VAL	231	4.002	94.735	38.958	1.00	0.00	C
ATOM	2183	CG2	VAL	231	3.616	92.438	40.095	1.00	0.00	C
ATOM	2184	C	VAL	231	1.348	93.647	41.455	1.00	0.00	C
ATOM	2185	O	VAL	231	0.303	93.466	40.836	1.00	0.00	O
ATOM	2186	N	ILE	232	1.577	93.010	42.622	1.00	0.00	N
ATOM	2187	HN	ILE	232	2.475	93.122	43.093	1.00	0.00	H
ATOM	2188	CA	ILE	232	0.563	92.174	43.207	1.00	0.00	C
ATOM	2189	CB	ILE	232	0.988	91.493	44.479	1.00	0.00	C
ATOM	2190	CG1	ILE	232	2.024	90.393	44.212	1.00	0.00	C
ATOM	2191	CG2	ILE	232	-0.284	90.970	45.165	1.00	0.00	C
ATOM	2192	CD1	ILE	232	1.477	89.246	43.360	1.00	0.00	C
ATOM	2193	C	ILE	232	-0.586	93.052	43.574	1.00	0.00	C
ATOM	2194	O	ILE	232	-1.747	92.715	43.351	1.00	0.00	O
ATOM	2195	N	ALA	233	-0.266	94.208	44.176	1.00	0.00	N
ATOM	2196	HN	ALA	233	0.717	94.384	44.383	1.00	0.00	H
ATOM	2197	CA	ALA	233	-1.222	95.213	44.547	1.00	0.00	C
ATOM	2198	CB	ALA	233	-0.592	96.390	45.313	1.00	0.00	C
ATOM	2199	C	ALA	233	-1.815	95.754	43.279	1.00	0.00	C
ATOM	2200	O	ALA	233	-2.854	96.413	43.289	1.00	0.00	O
ATOM	2201	N	PHE	234	-1.050	95.639	42.180	1.00	0.00	N
ATOM	2202	HN	PHE	234	-0.131	95.210	42.287	1.00	0.00	H
ATOM	2203	CA	PHE	234	-1.432	96.077	40.860	1.00	0.00	C
ATOM	2204	CB	PHE	234	-0.206	96.075	39.924	1.00	0.00	C
ATOM	2205	CG	PHE	234	-0.484	96.875	38.698	1.00	0.00	C
ATOM	2206	CD1	PHE	234	-0.597	98.244	38.786	1.00	0.00	C
ATOM	2207	CD2	PHE	234	-0.587	96.274	37.465	1.00	0.00	C
ATOM	2208	CE1	PHE	234	-0.841	99.001	37.665	1.00	0.00	C
ATOM	2209	CE2	PHE	234	-0.831	97.027	36.340	1.00	0.00	C
ATOM	2210	CZ	PHE	234	-0.961	98.392	36.439	1.00	0.00	C
ATOM	2211	C	PHE	234	-2.500	95.175	40.288	1.00	0.00	C
ATOM	2212	O	PHE	234	-3.491	95.658	39.735	1.00	0.00	O
ATOM	2213	N	GLY	235	-2.328	93.837	40.441	1.00	0.00	N
ATOM	2214	HN	GLY	235	-1.483	93.511	40.911	1.00	0.00	H
ATOM	2215	CA	GLY	235	-3.272	92.852	39.977	1.00	0.00	C
ATOM	2216	C	GLY	235	-2.594	91.766	39.202	1.00	0.00	C
ATOM	2217	O	GLY	235	-2.655	90.590	39.566	1.00	0.00	O

ATOM	2218	N	GLY	236	-1.904	92.128	38.120	1.00	0.00	N
ATOM	2219	HN	GLY	236	-1.851	93.112	37.855	1.00	0.00	H
ATOM	2220	CA	GLY	236	-1.242	91.146	37.335	1.00	0.00	C
ATOM	2221	C	GLY	236	-1.514	91.592	35.966	1.00	0.00	C
ATOM	2222	O	GLY	236	-2.681	91.660	35.573	1.00	0.00	O
ATOM	2223	N	GLN	237	-0.436	91.912	35.222	1.00	0.00	N
ATOM	2224	HN	GLN	237	0.509	91.810	35.592	1.00	0.00	H
ATOM	2225	CA	GLN	237	-0.660	92.397	33.904	1.00	0.00	C
ATOM	2226	CB	GLN	237	0.645	92.705	33.145	1.00	0.00	C
ATOM	2227	CG	GLN	237	1.245	94.091	33.433	1.00	0.00	C
ATOM	2228	CD	GLN	237	1.886	94.189	34.817	1.00	0.00	C
ATOM	2229	OE1	GLN	237	1.718	93.324	35.674	1.00	0.00	O
ATOM	2230	NE2	GLN	237	2.642	95.297	35.045	1.00	0.00	N
ATOM	2231	1HE2	GLN	237	2.781	96.015	34.334	1.00	0.00	H
ATOM	2232	2HE2	GLN	237	3.070	95.362	35.969	1.00	0.00	H
ATOM	2233	C	GLN	237	-1.388	91.277	33.224	1.00	0.00	C
ATOM	2234	O	GLN	237	-2.553	91.422	32.858	1.00	0.00	O
ATOM	2235	N	LYS	238	-0.732	90.105	33.165	1.00	0.00	N
ATOM	2236	HN	LYS	238	0.243	90.124	33.466	1.00	0.00	H
ATOM	2237	CA	LYS	238	-1.230	88.833	32.733	1.00	0.00	C
ATOM	2238	CB	LYS	238	-2.474	88.395	33.519	1.00	0.00	C
ATOM	2239	CG	LYS	238	-2.231	88.260	35.023	1.00	0.00	C
ATOM	2240	CD	LYS	238	-3.523	88.119	35.831	1.00	0.00	C
ATOM	2241	CE	LYS	238	-4.424	89.356	35.777	1.00	0.00	C
ATOM	2242	NZ	LYS	238	-5.002	89.513	34.422	1.00	0.00	N
ATOM	2243	HZ1	LYS	238	-5.602	90.337	34.386	1.00	0.00	H
ATOM	2244	HZ2	LYS	238	-5.492	88.672	34.118	1.00	0.00	H
ATOM	2245	HZ3	LYS	238	-4.281	89.536	33.701	1.00	0.00	H
ATOM	2246	C	LYS	238	-1.584	88.819	31.279	1.00	0.00	C
ATOM	2247	O	LYS	238	-1.314	87.826	30.609	1.00	0.00	O
ATOM	2248	N	LYS	239	-2.275	89.873	30.793	1.00	0.00	N
ATOM	2249	HN	LYS	239	-2.575	90.577	31.467	1.00	0.00	H
ATOM	2250	CA	LYS	239	-2.627	90.097	29.420	1.00	0.00	C
ATOM	2251	CB	LYS	239	-3.899	90.926	29.201	1.00	0.00	C
ATOM	2252	CG	LYS	239	-4.151	91.104	27.703	1.00	0.00	C
ATOM	2253	CD	LYS	239	-5.517	91.667	27.334	1.00	0.00	C
ATOM	2254	CE	LYS	239	-5.703	91.827	25.823	1.00	0.00	C
ATOM	2255	NZ	LYS	239	-5.521	90.521	25.151	1.00	0.00	N
ATOM	2256	HZ1	LYS	239	-5.645	90.628	24.144	1.00	0.00	H
ATOM	2257	HZ2	LYS	239	-6.133	89.803	25.538	1.00	0.00	H
ATOM	2258	HZ3	LYS	239	-4.625	90.093	25.383	1.00	0.00	H
ATOM	2259	C	LYS	239	-1.561	90.811	28.656	1.00	0.00	C
ATOM	2260	O	LYS	239	-1.399	90.560	27.469	1.00	0.00	O
ATOM	2261	N	GLU	240	-0.861	91.786	29.274	1.00	0.00	N
ATOM	2262	HN	GLU	240	-1.026	92.000	30.258	1.00	0.00	H
ATOM	2263	CA	GLU	240	0.123	92.519	28.521	1.00	0.00	C
ATOM	2264	CB	GLU	240	0.845	93.589	29.359	1.00	0.00	C
ATOM	2265	CG	GLU	240	-0.032	94.767	29.788	1.00	0.00	C
ATOM	2266	CD	GLU	240	0.844	95.711	30.604	1.00	0.00	C
ATOM	2267	OE1	GLU	240	2.020	95.342	30.864	1.00	0.00	O
ATOM	2268	OE2	GLU	240	0.355	96.810	30.978	1.00	0.00	O
ATOM	2269	C	GLU	240	1.160	91.532	28.124	1.00	0.00	C
ATOM	2270	O	GLU	240	1.540	91.446	26.958	1.00	0.00	O
ATOM	2271	N	LEU	241	1.621	90.740	29.108	1.00	0.00	N
ATOM	2272	HN	LEU	241	1.242	90.842	30.049	1.00	0.00	H
ATOM	2273	CA	LEU	241	2.631	89.757	28.864	1.00	0.00	C
ATOM	2274	CB	LEU	241	3.067	88.991	30.123	1.00	0.00	C
ATOM	2275	CG	LEU	241	1.964	88.883	31.187	1.00	0.00	C
ATOM	2276	CD1	LEU	241	2.293	87.811	32.229	1.00	0.00	C
ATOM	2277	CD2	LEU	241	1.764	90.243	31.874	1.00	0.00	C
ATOM	2278	C	LEU	241	2.110	88.730	27.916	1.00	0.00	C
ATOM	2279	O	LEU	241	2.729	88.469	26.893	1.00	0.00	O
ATOM	2280	N	GLU	242	0.924	88.157	28.191	1.00	0.00	N
ATOM	2281	HN	GLU	242	0.380	88.478	28.992	1.00	0.00	H
ATOM	2282	CA	GLU	242	0.420	87.097	27.365	1.00	0.00	C
ATOM	2283	CB	GLU	242	-0.918	86.555	27.911	1.00	0.00	C
ATOM	2284	CG	GLU	242	-1.413	85.251	27.281	1.00	0.00	C
ATOM	2285	CD	GLU	242	-2.505	85.589	26.280	1.00	0.00	C
ATOM	2286	OE1	GLU	242	-2.580	86.774	25.855	1.00	0.00	O
ATOM	2287	OE2	GLU	242	-3.285	84.663	25.932	1.00	0.00	O
ATOM	2288	C	GLU	242	0.231	87.620	25.975	1.00	0.00	C
ATOM	2289	O	GLU	242	0.601	86.955	25.011	1.00	0.00	O
ATOM	2290	N	ARG	243	-0.307	88.847	25.831	1.00	0.00	N
ATOM	2291	HN	ARG	243	-0.515	89.411	26.655	1.00	0.00	H

ATOM	2292	CA	ARG	243	-0.588	89.362	24.523	1.00	0.00	C
ATOM	2293	CB	ARG	243	-1.223	90.759	24.530	1.00	0.00	C
ATOM	2294	CG	ARG	243	-1.167	91.406	23.148	1.00	0.00	C
ATOM	2295	CD	ARG	243	-2.241	92.459	22.899	1.00	0.00	C
ATOM	2296	NE	ARG	243	-3.478	91.710	22.547	1.00	0.00	N
ATOM	2297	HE	ARG	243	-4.161	91.480	23.268	1.00	0.00	H
ATOM	2298	CZ	ARG	243	-3.692	91.333	21.252	1.00	0.00	C
ATOM	2299	NH1	ARG	243	-2.804	91.695	20.280	1.00	0.00	N
ATOM	2300	1HH1	ARG	243	-1.982	92.248	20.521	1.00	0.00	H
ATOM	2301	2HH1	ARG	243	-2.964	91.413	19.313	1.00	0.00	H
ATOM	2302	NH2	ARG	243	-4.792	90.593	20.929	1.00	0.00	N
ATOM	2303	1HH2	ARG	243	-5.455	90.323	21.655	1.00	0.00	H
ATOM	2304	2HH2	ARG	243	-4.952	90.311	19.962	1.00	0.00	H
ATOM	2305	C	ARG	243	0.664	89.434	23.713	1.00	0.00	C
ATOM	2306	O	ARG	243	0.705	88.900	22.609	1.00	0.00	O
ATOM	2307	N	TYR	244	1.727	90.074	24.230	1.00	0.00	N
ATOM	2308	HN	TYR	244	1.663	90.506	25.152	1.00	0.00	H
ATOM	2309	CA	TYR	244	2.951	90.150	23.488	1.00	0.00	C
ATOM	2310	CB	TYR	244	3.980	91.105	24.110	1.00	0.00	C
ATOM	2311	CG	TYR	244	3.527	92.469	23.731	1.00	0.00	C
ATOM	2312	CD1	TYR	244	2.593	93.144	24.481	1.00	0.00	C
ATOM	2313	CD2	TYR	244	4.030	93.057	22.595	1.00	0.00	C
ATOM	2314	CE1	TYR	244	2.180	94.400	24.104	1.00	0.00	C
ATOM	2315	CE2	TYR	244	3.623	94.311	22.214	1.00	0.00	C
ATOM	2316	CZ	TYR	244	2.696	94.984	22.971	1.00	0.00	C
ATOM	2317	OH	TYR	244	2.276	96.272	22.579	1.00	0.00	O
ATOM	2318	HH	TYR	244	1.635	96.738	23.103	1.00	0.00	H
ATOM	2319	C	TYR	244	3.558	88.786	23.367	1.00	0.00	C
ATOM	2320	O	TYR	244	4.095	88.434	22.320	1.00	0.00	O
ATOM	2321	N	ASN	245	3.514	87.968	24.433	1.00	0.00	N
ATOM	2322	HN	ASN	245	3.041	88.247	25.293	1.00	0.00	H
ATOM	2323	CA	ASN	245	4.155	86.687	24.321	1.00	0.00	C
ATOM	2324	CB	ASN	245	4.008	85.819	25.585	1.00	0.00	C
ATOM	2325	CG	ASN	245	5.028	86.277	26.616	1.00	0.00	C
ATOM	2326	OD1	ASN	245	6.233	86.198	26.387	1.00	0.00	O
ATOM	2327	ND2	ASN	245	4.544	86.756	27.792	1.00	0.00	N
ATOM	2328	1HD2	ASN	245	5.228	87.063	28.483	1.00	0.00	H
ATOM	2329	2HD2	ASN	245	3.544	86.822	27.982	1.00	0.00	H
ATOM	2330	C	ASN	245	3.562	85.898	23.195	1.00	0.00	C
ATOM	2331	O	ASN	245	4.231	85.664	22.194	1.00	0.00	O
ATOM	2332	N	LYS	246	2.265	85.553	23.285	1.00	0.00	N
ATOM	2333	HN	LYS	246	1.724	85.891	24.081	1.00	0.00	H
ATOM	2334	CA	LYS	246	1.609	84.730	22.310	1.00	0.00	C
ATOM	2335	CB	LYS	246	0.171	84.350	22.712	1.00	0.00	C
ATOM	2336	CG	LYS	246	0.109	83.458	23.956	1.00	0.00	C
ATOM	2337	CD	LYS	246	-1.297	83.301	24.541	1.00	0.00	C
ATOM	2338	CE	LYS	246	-1.348	82.408	25.784	1.00	0.00	C
ATOM	2339	NZ	LYS	246	-1.041	81.009	25.411	1.00	0.00	N
ATOM	2340	HZ1	LYS	246	-1.075	80.414	26.239	1.00	0.00	H
ATOM	2341	HZ2	LYS	246	-0.151	80.930	24.919	1.00	0.00	H
ATOM	2342	HZ3	LYS	246	-1.652	80.668	24.669	1.00	0.00	H
ATOM	2343	C	LYS	246	1.547	85.444	21.003	1.00	0.00	C
ATOM	2344	O	LYS	246	1.538	84.788	19.964	1.00	0.00	O
ATOM	2345	N	ASN	247	1.440	86.792	20.987	1.00	0.00	N
ATOM	2346	HN	ASN	247	1.459	87.365	21.831	1.00	0.00	H
ATOM	2347	CA	ASN	247	1.297	87.337	19.670	1.00	0.00	C
ATOM	2348	CB	ASN	247	0.675	88.754	19.555	1.00	0.00	C
ATOM	2349	CG	ASN	247	1.495	89.878	20.156	1.00	0.00	C
ATOM	2350	OD1	ASN	247	2.527	89.657	20.778	1.00	0.00	O
ATOM	2351	ND2	ASN	247	1.008	91.135	19.974	1.00	0.00	N
ATOM	2352	1HD2	ASN	247	0.149	91.319	19.456	1.00	0.00	H
ATOM	2353	2HD2	ASN	247	1.560	91.891	20.378	1.00	0.00	H
ATOM	2354	C	ASN	247	2.548	87.173	18.852	1.00	0.00	C
ATOM	2355	O	ASN	247	2.492	86.553	17.794	1.00	0.00	O
ATOM	2356	N	LEU	248	3.725	87.641	19.321	1.00	0.00	N
ATOM	2357	HN	LEU	248	3.773	88.105	20.228	1.00	0.00	H
ATOM	2358	CA	LEU	248	4.909	87.475	18.523	1.00	0.00	C
ATOM	2359	CB	LEU	248	6.165	88.112	19.142	1.00	0.00	C
ATOM	2360	CG	LEU	248	6.183	89.651	19.171	1.00	0.00	C
ATOM	2361	CD1	LEU	248	6.114	90.235	17.751	1.00	0.00	C
ATOM	2362	CD2	LEU	248	5.125	90.222	20.123	1.00	0.00	C
ATOM	2363	C	LEU	248	5.200	86.014	18.424	1.00	0.00	C
ATOM	2364	O	LEU	248	5.497	85.501	17.346	1.00	0.00	O
ATOM	2365	N	GLU	249	5.095	85.293	19.557	1.00	0.00	N

ATOM	2366	HN	GLU	249	4.762	85.729	20.417	1.00	0.00	H
ATOM	2367	CA	GLU	249	5.455	83.909	19.541	1.00	0.00	C
ATOM	2368	CB	GLU	249	5.314	83.180	20.891	1.00	0.00	C
ATOM	2369	CG	GLU	249	6.423	83.510	21.891	1.00	0.00	C
ATOM	2370	CD	GLU	249	6.458	82.393	22.927	1.00	0.00	C
ATOM	2371	OE1	GLU	249	5.366	81.991	23.411	1.00	0.00	O
ATOM	2372	OE2	GLU	249	7.582	81.916	23.235	1.00	0.00	O
ATOM	2373	C	GLU	249	4.610	83.187	18.573	1.00	0.00	C
ATOM	2374	O	GLU	249	5.167	82.522	17.723	1.00	0.00	O
ATOM	2375	N	GLU	250	3.275	83.322	18.599	1.00	0.00	N
ATOM	2376	HN	GLU	250	2.831	83.969	19.251	1.00	0.00	H
ATOM	2377	CA	GLU	250	2.484	82.540	17.693	1.00	0.00	C
ATOM	2378	CB	GLU	250	0.973	82.717	17.919	1.00	0.00	C
ATOM	2379	CG	GLU	250	0.138	81.612	17.270	1.00	0.00	C
ATOM	2380	CD	GLU	250	-1.307	81.774	17.721	1.00	0.00	C
ATOM	2381	OE1	GLU	250	-1.540	82.498	18.725	1.00	0.00	O
ATOM	2382	OE2	GLU	250	-2.199	81.170	17.068	1.00	0.00	O
ATOM	2383	C	GLU	250	2.825	82.938	16.291	1.00	0.00	C
ATOM	2384	O	GLU	250	2.927	82.082	15.414	1.00	0.00	O
ATOM	2385	N	ALA	251	3.054	84.246	16.043	1.00	0.00	N
ATOM	2386	HN	ALA	251	3.084	84.916	16.811	1.00	0.00	H
ATOM	2387	CA	ALA	251	3.255	84.687	14.691	1.00	0.00	C
ATOM	2388	CB	ALA	251	3.529	86.196	14.612	1.00	0.00	C
ATOM	2389	C	ALA	251	4.432	83.988	14.090	1.00	0.00	C
ATOM	2390	O	ALA	251	4.285	83.278	13.100	1.00	0.00	O
ATOM	2391	N	LYS	252	5.613	84.112	14.719	1.00	0.00	N
ATOM	2392	HN	LYS	252	5.656	84.697	15.554	1.00	0.00	H
ATOM	2393	CA	LYS	252	6.814	83.469	14.282	1.00	0.00	C
ATOM	2394	CB	LYS	252	8.072	83.901	15.057	1.00	0.00	C
ATOM	2395	CG	LYS	252	8.579	85.303	14.715	1.00	0.00	C
ATOM	2396	CD	LYS	252	7.675	86.436	15.200	1.00	0.00	C
ATOM	2397	CE	LYS	252	8.219	87.821	14.849	1.00	0.00	C
ATOM	2398	NZ	LYS	252	7.326	88.870	15.383	1.00	0.00	N
ATOM	2399	HZ1	LYS	252	7.689	89.794	15.149	1.00	0.00	H
ATOM	2400	HZ2	LYS	252	7.171	88.764	16.386	1.00	0.00	H
ATOM	2401	HZ3	LYS	252	6.363	88.748	15.068	1.00	0.00	H
ATOM	2402	C	LYS	252	6.625	82.021	14.555	1.00	0.00	C
ATOM	2403	O	LYS	252	7.437	81.207	14.142	1.00	0.00	O
ATOM	2404	N	ARG	253	5.641	81.653	15.388	1.00	0.00	N
ATOM	2405	HN	ARG	253	5.013	82.344	15.799	1.00	0.00	H
ATOM	2406	CA	ARG	253	5.501	80.260	15.681	1.00	0.00	C
ATOM	2407	CB	ARG	253	4.287	79.858	16.548	1.00	0.00	C
ATOM	2408	CG	ARG	253	4.458	79.913	18.066	1.00	0.00	C
ATOM	2409	CD	ARG	253	5.712	79.207	18.582	1.00	0.00	C
ATOM	2410	NE	ARG	253	6.412	80.187	19.456	1.00	0.00	N
ATOM	2411	HE	ARG	253	6.291	80.145	20.468	1.00	0.00	H
ATOM	2412	CZ	ARG	253	7.215	81.141	18.904	1.00	0.00	C
ATOM	2413	NH1	ARG	253	7.473	81.134	17.564	1.00	0.00	N
ATOM	2414	1HH1	ARG	253	7.099	80.388	16.977	1.00	0.00	H
ATOM	2415	2HH1	ARG	253	8.074	81.848	17.151	1.00	0.00	H
ATOM	2416	NH2	ARG	253	7.715	82.138	19.688	1.00	0.00	N
ATOM	2417	1HH2	ARG	253	7.522	82.143	20.690	1.00	0.00	H
ATOM	2418	2HH2	ARG	253	8.316	82.852	19.275	1.00	0.00	H
ATOM	2419	C	ARG	253	5.214	79.618	14.410	1.00	0.00	C
ATOM	2420	O	ARG	253	6.117	79.068	13.808	1.00	0.00	O
ATOM	2421	N	ILE	254	3.992	79.847	13.907	1.00	0.00	N
ATOM	2422	HN	ILE	254	3.369	80.468	14.424	1.00	0.00	H
ATOM	2423	CA	ILE	254	3.513	79.277	12.697	1.00	0.00	C
ATOM	2424	CB	ILE	254	2.065	79.600	12.412	1.00	0.00	C
ATOM	2425	CG1	ILE	254	1.817	81.111	12.244	1.00	0.00	C
ATOM	2426	CG2	ILE	254	1.219	78.971	13.528	1.00	0.00	C
ATOM	2427	CD1	ILE	254	2.225	81.684	10.887	1.00	0.00	C
ATOM	2428	C	ILE	254	4.371	79.801	11.605	1.00	0.00	C
ATOM	2429	O	ILE	254	4.542	79.106	10.617	1.00	0.00	O
ATOM	2430	N	GLY	255	4.856	81.060	11.704	1.00	0.00	N
ATOM	2431	HN	GLY	255	4.645	81.608	12.538	1.00	0.00	H
ATOM	2432	CA	GLY	255	5.664	81.651	10.662	1.00	0.00	C
ATOM	2433	C	GLY	255	7.013	80.999	10.504	1.00	0.00	C
ATOM	2434	O	GLY	255	7.362	80.526	9.425	1.00	0.00	O
ATOM	2435	N	ILE	256	7.797	80.941	11.595	1.00	0.00	N
ATOM	2436	HN	ILE	256	7.431	81.350	12.455	1.00	0.00	H
ATOM	2437	CA	ILE	256	9.104	80.353	11.653	1.00	0.00	C
ATOM	2438	CB	ILE	256	9.803	80.462	12.990	1.00	0.00	C
ATOM	2439	CG1	ILE	256	11.340	80.479	12.847	1.00	0.00	C

ATOM	2440	CG2	ILE	256	9.344	79.272	13.853	1.00	0.00	C
ATOM	2441	CD1	ILE	256	11.977	79.188	12.333	1.00	0.00	C
ATOM	2442	C	ILE	256	8.817	78.932	11.441	1.00	0.00	C
ATOM	2443	O	ILE	256	9.726	78.169	11.185	1.00	0.00	O
ATOM	2444	N	LYS	257	7.583	78.523	11.768	1.00	0.00	N
ATOM	2445	HN	LYS	257	6.961	79.204	12.203	1.00	0.00	H
ATOM	2446	CA	LYS	257	7.073	77.207	11.554	1.00	0.00	C
ATOM	2447	CB	LYS	257	5.977	76.703	12.500	1.00	0.00	C
ATOM	2448	CG	LYS	257	6.629	76.385	13.847	1.00	0.00	C
ATOM	2449	CD	LYS	257	5.692	75.877	14.923	1.00	0.00	C
ATOM	2450	CE	LYS	257	6.401	75.518	16.231	1.00	0.00	C
ATOM	2451	NZ	LYS	257	6.780	76.750	16.959	1.00	0.00	N
ATOM	2452	HZ1	LYS	257	7.253	76.511	17.831	1.00	0.00	H
ATOM	2453	HZ2	LYS	257	5.980	77.363	17.114	1.00	0.00	H
ATOM	2454	HZ3	LYS	257	7.339	77.378	16.382	1.00	0.00	H
ATOM	2455	C	LYS	257	6.676	76.991	10.139	1.00	0.00	C
ATOM	2456	O	LYS	257	6.360	75.871	9.765	1.00	0.00	O
ATOM	2457	N	LYS	258	6.495	78.063	9.357	1.00	0.00	N
ATOM	2458	HN	LYS	258	6.557	78.996	9.765	1.00	0.00	H
ATOM	2459	CA	LYS	258	6.217	77.925	7.967	1.00	0.00	C
ATOM	2460	CB	LYS	258	5.831	79.246	7.292	1.00	0.00	C
ATOM	2461	CG	LYS	258	4.490	79.787	7.782	1.00	0.00	C
ATOM	2462	CD	LYS	258	4.214	81.227	7.353	1.00	0.00	C
ATOM	2463	CE	LYS	258	3.999	81.378	5.847	1.00	0.00	C
ATOM	2464	NZ	LYS	258	3.477	82.729	5.543	1.00	0.00	N
ATOM	2465	HZ1	LYS	258	3.334	82.830	4.538	1.00	0.00	H
ATOM	2466	HZ2	LYS	258	4.076	83.464	5.919	1.00	0.00	H
ATOM	2467	HZ3	LYS	258	2.631	82.940	6.073	1.00	0.00	H
ATOM	2468	C	LYS	258	7.517	77.511	7.440	1.00	0.00	C
ATOM	2469	O	LYS	258	7.594	76.733	6.501	1.00	0.00	O
ATOM	2470	N	ALA	259	8.556	78.135	8.026	1.00	0.00	N
ATOM	2471	HN	ALA	259	8.325	78.898	8.662	1.00	0.00	H
ATOM	2472	CA	ALA	259	9.940	77.850	7.858	1.00	0.00	C
ATOM	2473	CB	ALA	259	10.851	78.903	8.510	1.00	0.00	C
ATOM	2474	C	ALA	259	10.228	76.534	8.517	1.00	0.00	C
ATOM	2475	O	ALA	259	11.129	75.837	8.076	1.00	0.00	O
ATOM	2476	N	ILE	260	9.568	76.186	9.647	1.00	0.00	N
ATOM	2477	HN	ILE	260	8.826	76.777	10.022	1.00	0.00	H
ATOM	2478	CA	ILE	260	9.938	74.965	10.303	1.00	0.00	C
ATOM	2479	CB	ILE	260	9.507	74.705	11.728	1.00	0.00	C
ATOM	2480	CG1	ILE	260	8.010	74.455	11.908	1.00	0.00	C
ATOM	2481	CG2	ILE	260	10.053	75.844	12.591	1.00	0.00	C
ATOM	2482	CD1	ILE	260	7.709	73.724	13.212	1.00	0.00	C
ATOM	2483	C	ILE	260	9.383	73.889	9.476	1.00	0.00	C
ATOM	2484	O	ILE	260	10.074	72.955	9.097	1.00	0.00	O
ATOM	2485	N	THR	261	8.106	74.079	9.124	1.00	0.00	N
ATOM	2486	HN	THR	261	7.653	74.918	9.487	1.00	0.00	H
ATOM	2487	CA	THR	261	7.315	73.239	8.300	1.00	0.00	C
ATOM	2488	CB	THR	261	5.860	73.620	8.260	1.00	0.00	C
ATOM	2489	OG1	THR	261	5.315	73.543	9.566	1.00	0.00	O
ATOM	2490	HG1	THR	261	5.789	74.140	10.133	1.00	0.00	H
ATOM	2491	CG2	THR	261	5.093	72.653	7.343	1.00	0.00	C
ATOM	2492	C	THR	261	7.916	73.392	6.957	1.00	0.00	C
ATOM	2493	O	THR	261	7.488	72.740	6.021	1.00	0.00	O
ATOM	2494	N	ALA	262	8.732	74.448	6.794	1.00	0.00	N
ATOM	2495	HN	ALA	262	8.768	75.123	7.558	1.00	0.00	H
ATOM	2496	CA	ALA	262	9.558	74.721	5.652	1.00	0.00	C
ATOM	2497	CB	ALA	262	10.052	76.161	5.478	1.00	0.00	C
ATOM	2498	C	ALA	262	10.793	73.908	5.681	1.00	0.00	C
ATOM	2499	O	ALA	262	11.388	73.737	4.633	1.00	0.00	O
ATOM	2500	N	ASN	263	11.319	73.590	6.882	1.00	0.00	N
ATOM	2501	HN	ASN	263	10.866	73.961	7.717	1.00	0.00	H
ATOM	2502	CA	ASN	263	12.473	72.764	7.053	1.00	0.00	C
ATOM	2503	CB	ASN	263	12.985	72.751	8.503	1.00	0.00	C
ATOM	2504	CG	ASN	263	14.366	72.114	8.512	1.00	0.00	C
ATOM	2505	OD1	ASN	263	14.586	71.067	7.907	1.00	0.00	O
ATOM	2506	ND2	ASN	263	15.330	72.771	9.211	1.00	0.00	N
ATOM	2507	1HD2	ASN	263	15.147	73.640	9.713	1.00	0.00	H
ATOM	2508	2HD2	ASN	263	16.256	72.344	9.217	1.00	0.00	H
ATOM	2509	C	ASN	263	11.916	71.436	6.738	1.00	0.00	C
ATOM	2510	O	ASN	263	12.523	70.576	6.103	1.00	0.00	O
ATOM	2511	N	ILE	264	10.674	71.278	7.210	1.00	0.00	N
ATOM	2512	HN	ILE	264	10.252	72.024	7.763	1.00	0.00	H
ATOM	2513	CA	ILE	264	9.933	70.101	6.960	1.00	0.00	C

ATOM	2514	CB	ILE	264	8.584	70.146	7.611	1.00	0.00	C
ATOM	2515	CG1	ILE	264	8.742	70.223	9.139	1.00	0.00	C
ATOM	2516	CG2	ILE	264	7.774	68.933	7.130	1.00	0.00	C
ATOM	2517	CD1	ILE	264	9.497	69.031	9.729	1.00	0.00	C
ATOM	2518	C	ILE	264	9.737	70.100	5.491	1.00	0.00	C
ATOM	2519	O	ILE	264	10.065	69.148	4.791	1.00	0.00	O
ATOM	2520	N	SER	265	9.292	71.252	4.978	1.00	0.00	N
ATOM	2521	HN	SER	265	9.141	72.042	5.606	1.00	0.00	H
ATOM	2522	CA	SER	265	9.020	71.420	3.591	1.00	0.00	C
ATOM	2523	CB	SER	265	8.464	72.802	3.200	1.00	0.00	C
ATOM	2524	OG	SER	265	7.077	72.882	3.488	1.00	0.00	O
ATOM	2525	HG	SER	265	6.734	73.734	3.247	1.00	0.00	H
ATOM	2526	C	SER	265	10.317	71.255	2.891	1.00	0.00	C
ATOM	2527	O	SER	265	10.333	71.084	1.678	1.00	0.00	O
ATOM	2528	N	ILE	266	11.429	71.395	3.639	1.00	0.00	N
ATOM	2529	HN	ILE	266	11.314	71.634	4.624	1.00	0.00	H
ATOM	2530	CA	ILE	266	12.762	71.230	3.141	1.00	0.00	C
ATOM	2531	CB	ILE	266	13.880	71.723	4.024	1.00	0.00	C
ATOM	2532	CG1	ILE	266	13.993	73.256	4.016	1.00	0.00	C
ATOM	2533	CG2	ILE	266	15.167	71.016	3.570	1.00	0.00	C
ATOM	2534	CD1	ILE	266	14.879	73.819	5.127	1.00	0.00	C
ATOM	2535	C	ILE	266	13.001	69.795	2.929	1.00	0.00	C
ATOM	2536	O	ILE	266	13.570	69.405	1.913	1.00	0.00	O
ATOM	2537	N	GLY	267	12.571	68.977	3.908	1.00	0.00	N
ATOM	2538	HN	GLY	267	12.117	69.359	4.738	1.00	0.00	H
ATOM	2539	CA	GLY	267	12.759	67.571	3.770	1.00	0.00	C
ATOM	2540	C	GLY	267	12.005	67.265	2.525	1.00	0.00	C
ATOM	2541	O	GLY	267	12.444	66.508	1.662	1.00	0.00	O
ATOM	2542	N	ALA	268	10.851	67.934	2.395	1.00	0.00	N
ATOM	2543	HN	ALA	268	10.557	68.556	3.148	1.00	0.00	H
ATOM	2544	CA	ALA	268	10.020	67.810	1.247	1.00	0.00	C
ATOM	2545	CB	ALA	268	8.737	68.645	1.365	1.00	0.00	C
ATOM	2546	C	ALA	268	10.783	68.295	0.053	1.00	0.00	C
ATOM	2547	O	ALA	268	10.625	67.755	-1.038	1.00	0.00	O
ATOM	2548	N	ALA	269	11.595	69.361	0.194	1.00	0.00	N
ATOM	2549	HN	ALA	269	11.717	69.808	1.103	1.00	0.00	H
ATOM	2550	CA	ALA	269	12.283	69.852	-0.965	1.00	0.00	C
ATOM	2551	CB	ALA	269	13.096	71.122	-0.669	1.00	0.00	C
ATOM	2552	C	ALA	269	13.248	68.821	-1.450	1.00	0.00	C
ATOM	2553	O	ALA	269	13.008	68.210	-2.488	1.00	0.00	O
ATOM	2554	N	PHE	270	14.245	68.469	-0.603	1.00	0.00	N
ATOM	2555	HN	PHE	270	14.242	68.853	0.342	1.00	0.00	H
ATOM	2556	CA	PHE	270	15.304	67.578	-0.980	1.00	0.00	C
ATOM	2557	CB	PHE	270	16.208	67.152	0.194	1.00	0.00	C
ATOM	2558	CG	PHE	270	17.170	68.229	0.548	1.00	0.00	C
ATOM	2559	CD1	PHE	270	18.323	68.370	-0.188	1.00	0.00	C
ATOM	2560	CD2	PHE	270	16.944	69.073	1.611	1.00	0.00	C
ATOM	2561	CE1	PHE	270	19.238	69.347	0.119	1.00	0.00	C
ATOM	2562	CE2	PHE	270	17.857	70.053	1.922	1.00	0.00	C
ATOM	2563	CZ	PHE	270	19.003	70.192	1.177	1.00	0.00	C
ATOM	2564	C	PHE	270	14.691	66.307	-1.460	1.00	0.00	C
ATOM	2565	O	PHE	270	15.132	65.772	-2.472	1.00	0.00	O
ATOM	2566	N	LEU	271	13.702	65.767	-0.720	1.00	0.00	N
ATOM	2567	HN	LEU	271	13.402	66.240	0.133	1.00	0.00	H
ATOM	2568	CA	LEU	271	13.060	64.537	-1.107	1.00	0.00	C
ATOM	2569	CB	LEU	271	12.200	63.868	-0.020	1.00	0.00	C
ATOM	2570	CG	LEU	271	13.004	63.134	1.072	1.00	0.00	C
ATOM	2571	CD1	LEU	271	13.643	64.086	2.092	1.00	0.00	C
ATOM	2572	CD2	LEU	271	12.165	62.021	1.712	1.00	0.00	C
ATOM	2573	C	LEU	271	12.187	64.640	-2.330	1.00	0.00	C
ATOM	2574	O	LEU	271	12.239	63.771	-3.197	1.00	0.00	O
ATOM	2575	N	LEU	272	11.348	65.688	-2.444	1.00	0.00	N
ATOM	2576	HN	LEU	272	11.341	66.407	-1.720	1.00	0.00	H
ATOM	2577	CA	LEU	272	10.462	65.809	-3.572	1.00	0.00	C
ATOM	2578	CB	LEU	272	9.654	67.119	-3.525	1.00	0.00	C
ATOM	2579	CG	LEU	272	8.711	67.336	-4.722	1.00	0.00	C
ATOM	2580	CD1	LEU	272	7.572	66.308	-4.744	1.00	0.00	C
ATOM	2581	CD2	LEU	272	8.202	68.786	-4.765	1.00	0.00	C
ATOM	2582	C	LEU	272	11.331	65.869	-4.780	1.00	0.00	C
ATOM	2583	O	LEU	272	11.103	65.187	-5.778	1.00	0.00	O
ATOM	2584	N	ILE	273	12.379	66.695	-4.675	1.00	0.00	N
ATOM	2585	HN	ILE	273	12.470	67.224	-3.808	1.00	0.00	H
ATOM	2586	CA	ILE	273	13.381	66.900	-5.672	1.00	0.00	C
ATOM	2587	CB	ILE	273	14.355	67.971	-5.285	1.00	0.00	C

ATOM	2588	CG1	ILE	273	13.615	69.307	-5.119	1.00	0.00	C
ATOM	2589	CG2	ILE	273	15.474	68.005	-6.338	1.00	0.00	C
ATOM	2590	CD1	ILE	273	12.844	69.721	-6.370	1.00	0.00	C
ATOM	2591	C	ILE	273	14.132	65.623	-5.810	1.00	0.00	C
ATOM	2592	O	ILE	273	14.739	65.354	-6.844	1.00	0.00	O
ATOM	2593	N	TYR	274	14.203	64.853	-4.713	1.00	0.00	N
ATOM	2594	HN	TYR	274	13.749	65.164	-3.854	1.00	0.00	H
ATOM	2595	CA	TYR	274	14.899	63.609	-4.723	1.00	0.00	C
ATOM	2596	CB	TYR	274	14.924	62.967	-3.320	1.00	0.00	C
ATOM	2597	CG	TYR	274	15.330	61.535	-3.389	1.00	0.00	C
ATOM	2598	CD1	TYR	274	16.616	61.149	-3.689	1.00	0.00	C
ATOM	2599	CD2	TYR	274	14.386	60.564	-3.168	1.00	0.00	C
ATOM	2600	CE1	TYR	274	16.946	59.813	-3.743	1.00	0.00	C
ATOM	2601	CE2	TYR	274	14.705	59.230	-3.218	1.00	0.00	C
ATOM	2602	CZ	TYR	274	15.993	58.851	-3.504	1.00	0.00	C
ATOM	2603	OH	TYR	274	16.330	57.482	-3.558	1.00	0.00	O
ATOM	2604	HH	TYR	274	17.221	57.220	-3.756	1.00	0.00	H
ATOM	2605	C	TYR	274	14.208	62.732	-5.702	1.00	0.00	C
ATOM	2606	O	TYR	274	14.825	62.276	-6.649	1.00	0.00	O
ATOM	2607	N	ALA	275	12.885	62.569	-5.589	1.00	0.00	N
ATOM	2608	HN	ALA	275	12.384	63.060	-4.849	1.00	0.00	H
ATOM	2609	CA	ALA	275	12.156	61.721	-6.483	1.00	0.00	C
ATOM	2610	CB	ALA	275	10.655	61.663	-6.151	1.00	0.00	C
ATOM	2611	C	ALA	275	12.307	62.272	-7.860	1.00	0.00	C
ATOM	2612	O	ALA	275	12.249	61.521	-8.833	1.00	0.00	O
ATOM	2613	N	SER	276	12.448	63.608	-7.982	1.00	0.00	N
ATOM	2614	HN	SER	276	12.453	64.202	-7.153	1.00	0.00	H
ATOM	2615	CA	SER	276	12.591	64.187	-9.286	1.00	0.00	C
ATOM	2616	CB	SER	276	12.715	65.722	-9.328	1.00	0.00	C
ATOM	2617	OG	SER	276	14.071	66.122	-9.202	1.00	0.00	O
ATOM	2618	HG	SER	276	14.147	67.069	-9.228	1.00	0.00	H
ATOM	2619	C	SER	276	13.854	63.640	-9.859	1.00	0.00	C
ATOM	2620	O	SER	276	13.927	63.407	-11.065	1.00	0.00	O
ATOM	2621	N	TYR	277	14.866	63.392	-8.992	1.00	0.00	N
ATOM	2622	HN	TYR	277	14.731	63.583	-7.999	1.00	0.00	H
ATOM	2623	CA	TYR	277	16.121	62.867	-9.440	1.00	0.00	C
ATOM	2624	CB	TYR	277	17.152	62.499	-8.332	1.00	0.00	C
ATOM	2625	CG	TYR	277	17.327	61.014	-8.083	1.00	0.00	C
ATOM	2626	CD1	TYR	277	16.556	60.302	-7.192	1.00	0.00	C
ATOM	2627	CD2	TYR	277	18.305	60.304	-8.741	1.00	0.00	C
ATOM	2628	CE1	TYR	277	16.710	58.962	-6.949	1.00	0.00	C
ATOM	2629	CE2	TYR	277	18.476	58.956	-8.508	1.00	0.00	C
ATOM	2630	CZ	TYR	277	17.684	58.277	-7.618	1.00	0.00	C
ATOM	2631	OH	TYR	277	17.869	56.897	-7.389	1.00	0.00	O
ATOM	2632	HH	TYR	277	17.320	56.427	-6.772	1.00	0.00	H
ATOM	2633	C	TYR	277	15.720	61.599	-10.076	1.00	0.00	C
ATOM	2634	O	TYR	277	16.078	61.367	-11.217	1.00	0.00	O
ATOM	2635	N	ALA	278	14.849	60.818	-9.409	1.00	0.00	N
ATOM	2636	HN	ALA	278	14.475	61.143	-8.518	1.00	0.00	H
ATOM	2637	CA	ALA	278	14.434	59.547	-9.914	1.00	0.00	C
ATOM	2638	CB	ALA	278	13.372	58.869	-9.031	1.00	0.00	C
ATOM	2639	C	ALA	278	13.823	59.775	-11.257	1.00	0.00	C
ATOM	2640	O	ALA	278	14.036	58.993	-12.182	1.00	0.00	O
ATOM	2641	N	LEU	279	13.065	60.875	-11.405	1.00	0.00	N
ATOM	2642	HN	LEU	279	12.982	61.529	-10.627	1.00	0.00	H
ATOM	2643	CA	LEU	279	12.370	61.153	-12.629	1.00	0.00	C
ATOM	2644	CB	LEU	279	11.762	62.563	-12.549	1.00	0.00	C
ATOM	2645	CG	LEU	279	10.840	62.976	-13.704	1.00	0.00	C
ATOM	2646	CD1	LEU	279	9.447	62.345	-13.554	1.00	0.00	C
ATOM	2647	CD2	LEU	279	10.801	64.504	-13.861	1.00	0.00	C
ATOM	2648	C	LEU	279	13.341	61.195	-13.779	1.00	0.00	C
ATOM	2649	O	LEU	279	13.392	60.288	-14.605	1.00	0.00	O
ATOM	2650	N	ALA	280	14.232	62.197	-13.813	1.00	0.00	N
ATOM	2651	HN	ALA	280	14.267	62.874	-13.051	1.00	0.00	H
ATOM	2652	CA	ALA	280	15.136	62.317	-14.922	1.00	0.00	C
ATOM	2653	CB	ALA	280	16.060	63.542	-14.819	1.00	0.00	C
ATOM	2654	C	ALA	280	15.990	61.105	-14.906	1.00	0.00	C
ATOM	2655	O	ALA	280	16.418	60.614	-15.949	1.00	0.00	O
ATOM	2656	N	PHE	281	16.258	60.605	-13.689	1.00	0.00	N
ATOM	2657	HN	PHE	281	15.819	61.037	-12.876	1.00	0.00	H
ATOM	2658	CA	PHE	281	17.132	59.494	-13.485	1.00	0.00	C
ATOM	2659	CB	PHE	281	17.017	58.971	-12.043	1.00	0.00	C
ATOM	2660	CG	PHE	281	18.026	57.963	-11.624	1.00	0.00	C
ATOM	2661	CD1	PHE	281	19.289	58.361	-11.258	1.00	0.00	C

ATOM	2662	CD2	PHE	281	17.708	56.626	-11.574	1.00	0.00	C
ATOM	2663	CE1	PHE	281	20.217	57.439	-10.842	1.00	0.00	C
ATOM	2664	CE2	PHE	281	18.636	55.699	-11.163	1.00	0.00	C
ATOM	2665	CZ	PHE	281	19.895	56.106	-10.793	1.00	0.00	C
ATOM	2666	C	PHE	281	16.652	58.403	-14.358	1.00	0.00	C
ATOM	2667	O	PHE	281	17.219	58.150	-15.412	1.00	0.00	O
ATOM	2668	N	TRP	282	15.501	57.823	-14.017	1.00	0.00	N
ATOM	2669	HN	TRP	282	14.948	58.179	-13.238	1.00	0.00	H
ATOM	2670	CA	TRP	282	15.063	56.696	-14.766	1.00	0.00	C
ATOM	2671	CB	TRP	282	13.996	55.881	-14.036	1.00	0.00	C
ATOM	2672	CG	TRP	282	14.656	55.235	-12.849	1.00	0.00	C
ATOM	2673	CD2	TRP	282	15.570	54.134	-12.949	1.00	0.00	C
ATOM	2674	CD1	TRP	282	14.615	55.584	-11.534	1.00	0.00	C
ATOM	2675	NE1	TRP	282	15.430	54.758	-10.801	1.00	0.00	N
ATOM	2676	HE1	TRP	282	15.568	54.798	-9.791	1.00	0.00	H
ATOM	2677	CE2	TRP	282	16.031	53.865	-11.662	1.00	0.00	C
ATOM	2678	CE3	TRP	282	16.000	53.418	-14.028	1.00	0.00	C
ATOM	2679	CZ2	TRP	282	16.934	52.867	-11.432	1.00	0.00	C
ATOM	2680	CZ3	TRP	282	16.901	52.404	-13.792	1.00	0.00	C
ATOM	2681	CH2	TRP	282	17.359	52.134	-12.518	1.00	0.00	C
ATOM	2682	C	TRP	282	14.634	57.086	-16.133	1.00	0.00	C
ATOM	2683	O	TRP	282	14.853	56.330	-17.076	1.00	0.00	O
ATOM	2684	N	TYR	283	14.009	58.266	-16.298	1.00	0.00	N
ATOM	2685	HN	TYR	283	13.900	58.926	-15.528	1.00	0.00	H
ATOM	2686	CA	TYR	283	13.505	58.550	-17.607	1.00	0.00	C
ATOM	2687	CB	TYR	283	12.690	59.848	-17.685	1.00	0.00	C
ATOM	2688	CG	TYR	283	11.915	59.757	-18.955	1.00	0.00	C
ATOM	2689	CD1	TYR	283	10.718	59.078	-18.968	1.00	0.00	C
ATOM	2690	CD2	TYR	283	12.369	60.324	-20.123	1.00	0.00	C
ATOM	2691	CE1	TYR	283	9.980	58.972	-20.121	1.00	0.00	C
ATOM	2692	CE2	TYR	283	11.635	60.221	-21.283	1.00	0.00	C
ATOM	2693	CZ	TYR	283	10.438	59.545	-21.282	1.00	0.00	C
ATOM	2694	OH	TYR	283	9.683	59.437	-22.468	1.00	0.00	O
ATOM	2695	HH	TYR	283	10.000	59.833	-23.271	1.00	0.00	H
ATOM	2696	C	TYR	283	14.630	58.660	-18.596	1.00	0.00	C
ATOM	2697	O	TYR	283	14.681	57.909	-19.566	1.00	0.00	O
ATOM	2698	N	GLY	284	15.620	59.532	-18.333	1.00	0.00	N
ATOM	2699	HN	GLY	284	15.610	60.054	-17.457	1.00	0.00	H
ATOM	2700	CA	GLY	284	16.690	59.738	-19.267	1.00	0.00	C
ATOM	2701	C	GLY	284	17.377	58.429	-19.417	1.00	0.00	C
ATOM	2702	O	GLY	284	17.948	58.121	-20.462	1.00	0.00	O
ATOM	2703	N	THR	285	17.395	57.655	-18.320	1.00	0.00	N
ATOM	2704	HN	THR	285	16.958	57.996	-17.464	1.00	0.00	H
ATOM	2705	CA	THR	285	18.010	56.366	-18.322	1.00	0.00	C
ATOM	2706	CB	THR	285	17.937	55.685	-16.992	1.00	0.00	C
ATOM	2707	OG1	THR	285	18.839	56.270	-16.065	1.00	0.00	O
ATOM	2708	HG1	THR	285	18.793	55.838	-15.220	1.00	0.00	H
ATOM	2709	CG2	THR	285	18.181	54.186	-17.185	1.00	0.00	C
ATOM	2710	C	THR	285	17.349	55.443	-19.279	1.00	0.00	C
ATOM	2711	O	THR	285	17.997	54.920	-20.177	1.00	0.00	O
ATOM	2712	N	THR	286	16.027	55.267	-19.151	1.00	0.00	N
ATOM	2713	HN	THR	286	15.507	55.844	-18.490	1.00	0.00	H
ATOM	2714	CA	THR	286	15.333	54.287	-19.922	1.00	0.00	C
ATOM	2715	CB	THR	286	13.862	54.243	-19.611	1.00	0.00	C
ATOM	2716	OG1	THR	286	13.235	53.208	-20.354	1.00	0.00	O
ATOM	2717	HG1	THR	286	13.635	52.369	-20.159	1.00	0.00	H
ATOM	2718	CG2	THR	286	13.214	55.602	-19.926	1.00	0.00	C
ATOM	2719	C	THR	286	15.505	54.585	-21.374	1.00	0.00	C
ATOM	2720	O	THR	286	15.851	53.697	-22.151	1.00	0.00	O
ATOM	2721	N	LEU	287	15.322	55.855	-21.777	1.00	0.00	N
ATOM	2722	HN	LEU	287	15.123	56.590	-21.099	1.00	0.00	H
ATOM	2723	CA	LEU	287	15.411	56.157	-23.171	1.00	0.00	C
ATOM	2724	CB	LEU	287	15.181	57.646	-23.483	1.00	0.00	C
ATOM	2725	CG	LEU	287	15.273	57.977	-24.985	1.00	0.00	C
ATOM	2726	CD1	LEU	287	14.140	57.307	-25.777	1.00	0.00	C
ATOM	2727	CD2	LEU	287	15.359	59.493	-25.223	1.00	0.00	C
ATOM	2728	C	LEU	287	16.786	55.798	-23.639	1.00	0.00	C
ATOM	2729	O	LEU	287	16.955	55.111	-24.644	1.00	0.00	O
ATOM	2730	N	VAL	288	17.806	56.213	-22.873	1.00	0.00	N
ATOM	2731	HN	VAL	288	17.589	56.705	-22.006	1.00	0.00	H
ATOM	2732	CA	VAL	288	19.184	56.003	-23.206	1.00	0.00	C
ATOM	2733	CB	VAL	288	20.120	56.881	-22.406	1.00	0.00	C
ATOM	2734	CG1	VAL	288	21.579	56.663	-22.852	1.00	0.00	C
ATOM	2735	CG2	VAL	288	19.665	58.339	-22.588	1.00	0.00	C

ATOM	2736	C	VAL	288	19.512	54.539	-23.046	1.00	0.00	C
ATOM	2737	O	VAL	288	20.651	54.141	-23.249	1.00	0.00	O
ATOM	2738	N	LEU	289	18.627	53.747	-22.413	1.00	0.00	N
ATOM	2739	HN	LEU	289	17.824	54.183	-21.959	1.00	0.00	H
ATOM	2740	CA	LEU	289	18.757	52.313	-22.345	1.00	0.00	C
ATOM	2741	CB	LEU	289	18.205	51.683	-21.055	1.00	0.00	C
ATOM	2742	CG	LEU	289	19.237	51.608	-19.910	1.00	0.00	C
ATOM	2743	CD1	LEU	289	20.358	50.627	-20.280	1.00	0.00	C
ATOM	2744	CD2	LEU	289	19.793	52.978	-19.499	1.00	0.00	C
ATOM	2745	C	LEU	289	18.163	51.585	-23.511	1.00	0.00	C
ATOM	2746	O	LEU	289	18.614	50.495	-23.853	1.00	0.00	O
ATOM	2747	N	SER	290	17.048	52.097	-24.068	1.00	0.00	N
ATOM	2748	HN	SER	290	16.663	52.973	-23.716	1.00	0.00	H
ATOM	2749	CA	SER	290	16.398	51.420	-25.152	1.00	0.00	C
ATOM	2750	CB	SER	290	14.979	51.956	-25.409	1.00	0.00	C
ATOM	2751	OG	SER	290	14.165	51.729	-24.267	1.00	0.00	O
ATOM	2752	HG	SER	290	13.289	52.060	-24.426	1.00	0.00	H
ATOM	2753	C	SER	290	17.184	51.579	-26.415	1.00	0.00	C
ATOM	2754	O	SER	290	17.425	50.604	-27.128	1.00	0.00	O
ATOM	2755	N	GLY	291	17.530	52.838	-26.769	1.00	0.00	N
ATOM	2756	HN	GLY	291	17.289	53.626	-26.168	1.00	0.00	H
ATOM	2757	CA	GLY	291	18.240	53.055	-27.998	1.00	0.00	C
ATOM	2758	C	GLY	291	19.681	52.626	-27.974	1.00	0.00	C
ATOM	2759	O	GLY	291	20.070	51.680	-28.651	1.00	0.00	O
ATOM	2760	N	GLU	292	20.499	53.253	-27.112	1.00	0.00	N
ATOM	2761	HN	GLU	292	20.097	53.902	-26.435	1.00	0.00	H
ATOM	2762	CA	GLU	292	21.921	53.041	-27.111	1.00	0.00	C
ATOM	2763	CB	GLU	292	22.681	54.368	-27.283	1.00	0.00	C
ATOM	2764	CG	GLU	292	24.202	54.253	-27.291	1.00	0.00	C
ATOM	2765	CD	GLU	292	24.762	55.668	-27.238	1.00	0.00	C
ATOM	2766	OE1	GLU	292	24.320	56.441	-26.346	1.00	0.00	O
ATOM	2767	OE2	GLU	292	25.631	55.997	-28.089	1.00	0.00	O
ATOM	2768	C	GLU	292	22.260	52.532	-25.757	1.00	0.00	C
ATOM	2769	O	GLU	292	21.357	52.439	-24.934	1.00	0.00	O
ATOM	2770	N	TYR	293	23.530	52.100	-25.544	1.00	0.00	N
ATOM	2771	HN	TYR	293	24.143	52.012	-26.354	1.00	0.00	H
ATOM	2772	CA	TYR	293	24.072	51.757	-24.250	1.00	0.00	C
ATOM	2773	CB	TYR	293	24.426	53.044	-23.472	1.00	0.00	C
ATOM	2774	CG	TYR	293	25.179	52.751	-22.221	1.00	0.00	C
ATOM	2775	CD1	TYR	293	26.485	52.323	-22.283	1.00	0.00	C
ATOM	2776	CD2	TYR	293	24.601	52.947	-20.988	1.00	0.00	C
ATOM	2777	CE1	TYR	293	27.193	52.063	-21.135	1.00	0.00	C
ATOM	2778	CE2	TYR	293	25.305	52.690	-19.835	1.00	0.00	C
ATOM	2779	CZ	TYR	293	26.603	52.243	-19.908	1.00	0.00	C
ATOM	2780	OH	TYR	293	27.330	51.976	-18.729	1.00	0.00	O
ATOM	2781	HH	TYR	293	26.922	52.101	-17.880	1.00	0.00	H
ATOM	2782	C	TYR	293	23.068	50.942	-23.475	1.00	0.00	C
ATOM	2783	O	TYR	293	22.794	51.241	-22.314	1.00	0.00	O
ATOM	2784	N	SER	294	22.502	49.879	-24.093	1.00	0.00	N
ATOM	2785	HN	SER	294	22.855	49.573	-25.000	1.00	0.00	H
ATOM	2786	CA	SER	294	21.402	49.175	-23.478	1.00	0.00	C
ATOM	2787	CB	SER	294	20.560	48.392	-24.501	1.00	0.00	C
ATOM	2788	OG	SER	294	20.109	49.249	-25.539	1.00	0.00	O
ATOM	2789	HG	SER	294	19.589	48.766	-26.170	1.00	0.00	H
ATOM	2790	C	SER	294	21.901	48.144	-22.507	1.00	0.00	C
ATOM	2791	O	SER	294	21.810	46.943	-22.762	1.00	0.00	O
ATOM	2792	N	ILE	295	22.521	48.609	-21.409	1.00	0.00	N
ATOM	2793	HN	ILE	295	22.662	49.618	-21.362	1.00	0.00	H
ATOM	2794	CA	ILE	295	23.008	47.842	-20.292	1.00	0.00	C
ATOM	2795	CB	ILE	295	24.312	48.397	-19.809	1.00	0.00	C
ATOM	2796	CG1	ILE	295	24.260	49.933	-19.851	1.00	0.00	C
ATOM	2797	CG2	ILE	295	25.434	47.789	-20.671	1.00	0.00	C
ATOM	2798	CD1	ILE	295	23.076	50.564	-19.131	1.00	0.00	C
ATOM	2799	C	ILE	295	22.080	47.517	-19.137	1.00	0.00	C
ATOM	2800	O	ILE	295	22.170	46.433	-18.560	1.00	0.00	O
ATOM	2801	N	GLY	296	21.231	48.471	-18.679	1.00	0.00	N
ATOM	2802	HN	GLY	296	21.121	49.338	-19.205	1.00	0.00	H
ATOM	2803	CA	GLY	296	20.477	48.281	-17.456	1.00	0.00	C
ATOM	2804	C	GLY	296	21.481	48.570	-16.369	1.00	0.00	C
ATOM	2805	O	GLY	296	21.260	48.310	-15.185	1.00	0.00	O
ATOM	2806	N	GLN	297	22.682	48.963	-16.843	1.00	0.00	N
ATOM	2807	HN	GLN	297	22.729	48.989	-17.862	1.00	0.00	H
ATOM	2808	CA	GLN	297	23.903	49.351	-16.204	1.00	0.00	C
ATOM	2809	CB	GLN	297	25.173	48.851	-16.901	1.00	0.00	C

ATOM	2810	CG	GLN	297	26.293	48.803	-15.870	1.00	0.00	C
ATOM	2811	CD	GLN	297	25.663	48.086	-14.677	1.00	0.00	C
ATOM	2812	OE1	GLN	297	25.311	46.910	-14.758	1.00	0.00	O
ATOM	2813	NE2	GLN	297	25.477	48.821	-13.549	1.00	0.00	N
ATOM	2814	1HE2	GLN	297	25.769	49.796	-13.482	1.00	0.00	H
ATOM	2815	2HE2	GLN	297	25.056	48.342	-12.753	1.00	0.00	H
ATOM	2816	C	GLN	297	24.026	50.815	-15.950	1.00	0.00	C
ATOM	2817	O	GLN	297	24.968	51.251	-15.295	1.00	0.00	O
ATOM	2818	N	VAL	298	23.148	51.653	-16.531	1.00	0.00	N
ATOM	2819	HN	VAL	298	22.420	51.280	-17.140	1.00	0.00	H
ATOM	2820	CA	VAL	298	23.227	53.073	-16.300	1.00	0.00	C
ATOM	2821	CB	VAL	298	22.134	53.827	-16.977	1.00	0.00	C
ATOM	2822	CG1	VAL	298	22.415	53.879	-18.488	1.00	0.00	C
ATOM	2823	CG2	VAL	298	20.840	53.078	-16.642	1.00	0.00	C
ATOM	2824	C	VAL	298	23.107	53.270	-14.824	1.00	0.00	C
ATOM	2825	O	VAL	298	23.560	54.273	-14.274	1.00	0.00	O
ATOM	2826	N	LEU	299	22.508	52.272	-14.152	1.00	0.00	N
ATOM	2827	HN	LEU	299	22.190	51.460	-14.682	1.00	0.00	H
ATOM	2828	CA	LEU	299	22.291	52.280	-12.746	1.00	0.00	C
ATOM	2829	CB	LEU	299	21.934	50.869	-12.250	1.00	0.00	C
ATOM	2830	CG	LEU	299	21.709	50.756	-10.734	1.00	0.00	C
ATOM	2831	CD1	LEU	299	20.449	51.518	-10.297	1.00	0.00	C
ATOM	2832	CD2	LEU	299	21.718	49.285	-10.284	1.00	0.00	C
ATOM	2833	C	LEU	299	23.553	52.675	-12.049	1.00	0.00	C
ATOM	2834	O	LEU	299	23.563	53.742	-11.442	1.00	0.00	O
ATOM	2835	N	THR	300	24.669	51.929	-12.221	1.00	0.00	N
ATOM	2836	HN	THR	300	24.670	51.153	-12.883	1.00	0.00	H
ATOM	2837	CA	THR	300	25.856	52.236	-11.465	1.00	0.00	C
ATOM	2838	CB	THR	300	27.045	51.423	-11.829	1.00	0.00	C
ATOM	2839	OG1	THR	300	26.772	50.073	-11.535	1.00	0.00	O
ATOM	2840	HG1	THR	300	27.532	49.553	-11.768	1.00	0.00	H
ATOM	2841	CG2	THR	300	28.262	51.918	-11.027	1.00	0.00	C
ATOM	2842	C	THR	300	26.267	53.646	-11.679	1.00	0.00	C
ATOM	2843	O	THR	300	26.600	54.337	-10.718	1.00	0.00	O
ATOM	2844	N	VAL	301	26.253	54.114	-12.935	1.00	0.00	N
ATOM	2845	HN	VAL	301	25.919	53.534	-13.704	1.00	0.00	H
ATOM	2846	CA	VAL	301	26.718	55.449	-13.172	1.00	0.00	C
ATOM	2847	CB	VAL	301	26.672	55.804	-14.625	1.00	0.00	C
ATOM	2848	CG1	VAL	301	27.332	57.180	-14.818	1.00	0.00	C
ATOM	2849	CG2	VAL	301	27.277	54.648	-15.436	1.00	0.00	C
ATOM	2850	C	VAL	301	25.857	56.456	-12.455	1.00	0.00	C
ATOM	2851	O	VAL	301	26.268	56.998	-11.433	1.00	0.00	O
ATOM	2852	N	PHE	302	24.586	56.622	-12.889	1.00	0.00	N
ATOM	2853	HN	PHE	302	24.220	55.995	-13.605	1.00	0.00	H
ATOM	2854	CA	PHE	302	23.734	57.663	-12.365	1.00	0.00	C
ATOM	2855	CB	PHE	302	22.296	57.578	-12.906	1.00	0.00	C
ATOM	2856	CG	PHE	302	22.224	57.951	-14.348	1.00	0.00	C
ATOM	2857	CD1	PHE	302	22.574	57.052	-15.327	1.00	0.00	C
ATOM	2858	CD2	PHE	302	21.775	59.198	-14.721	1.00	0.00	C
ATOM	2859	CE1	PHE	302	22.495	57.398	-16.655	1.00	0.00	C
ATOM	2860	CE2	PHE	302	21.694	59.550	-16.048	1.00	0.00	C
ATOM	2861	CZ	PHE	302	22.056	58.649	-17.019	1.00	0.00	C
ATOM	2862	C	PHE	302	23.636	57.512	-10.875	1.00	0.00	C
ATOM	2863	O	PHE	302	23.872	58.461	-10.130	1.00	0.00	O
ATOM	2864	N	PHE	303	23.361	56.290	-10.394	1.00	0.00	N
ATOM	2865	HN	PHE	303	23.273	55.514	-11.051	1.00	0.00	H
ATOM	2866	CA	PHE	303	23.185	56.029	-8.994	1.00	0.00	C
ATOM	2867	CB	PHE	303	22.982	54.518	-8.759	1.00	0.00	C
ATOM	2868	CG	PHE	303	22.684	54.209	-7.330	1.00	0.00	C
ATOM	2869	CD1	PHE	303	21.406	54.353	-6.841	1.00	0.00	C
ATOM	2870	CD2	PHE	303	23.674	53.770	-6.480	1.00	0.00	C
ATOM	2871	CE1	PHE	303	21.118	54.066	-5.527	1.00	0.00	C
ATOM	2872	CE2	PHE	303	23.392	53.480	-5.165	1.00	0.00	C
ATOM	2873	CZ	PHE	303	22.112	53.627	-4.685	1.00	0.00	C
ATOM	2874	C	PHE	303	24.415	56.492	-8.263	1.00	0.00	C
ATOM	2875	O	PHE	303	24.315	57.102	-7.199	1.00	0.00	O
ATOM	2876	N	SER	304	25.609	56.209	-8.817	1.00	0.00	N
ATOM	2877	HN	SER	304	25.624	55.711	-9.707	1.00	0.00	H
ATOM	2878	CA	SER	304	26.865	56.573	-8.218	1.00	0.00	C
ATOM	2879	CB	SER	304	28.072	55.995	-8.976	1.00	0.00	C
ATOM	2880	OG	SER	304	29.281	56.384	-8.341	1.00	0.00	O
ATOM	2881	HG	SER	304	30.027	56.027	-8.809	1.00	0.00	H
ATOM	2882	C	SER	304	27.041	58.065	-8.166	1.00	0.00	C
ATOM	2883	O	SER	304	27.529	58.590	-7.167	1.00	0.00	O

ATOM	2884	N	VAL	305	26.650	58.805	-9.223	1.00	0.00	N
ATOM	2885	HN	VAL	305	26.226	58.362	-10.038	1.00	0.00	H
ATOM	2886	CA	VAL	305	26.842	60.231	-9.181	1.00	0.00	C
ATOM	2887	CB	VAL	305	26.369	60.954	-10.415	1.00	0.00	C
ATOM	2888	CG1	VAL	305	24.834	61.002	-10.428	1.00	0.00	C
ATOM	2889	CG2	VAL	305	27.019	62.347	-10.430	1.00	0.00	C
ATOM	2890	C	VAL	305	26.046	60.731	-8.013	1.00	0.00	C
ATOM	2891	O	VAL	305	26.446	61.659	-7.310	1.00	0.00	O
ATOM	2892	N	LEU	306	24.901	60.075	-7.757	1.00	0.00	N
ATOM	2893	HN	LEU	306	24.653	59.279	-8.344	1.00	0.00	H
ATOM	2894	CA	LEU	306	24.015	60.447	-6.695	1.00	0.00	C
ATOM	2895	CB	LEU	306	22.858	59.442	-6.551	1.00	0.00	C
ATOM	2896	CG	LEU	306	21.779	59.861	-5.538	1.00	0.00	C
ATOM	2897	CD1	LEU	306	20.890	60.977	-6.112	1.00	0.00	C
ATOM	2898	CD2	LEU	306	20.987	58.652	-5.018	1.00	0.00	C
ATOM	2899	C	LEU	306	24.795	60.377	-5.418	1.00	0.00	C
ATOM	2900	O	LEU	306	24.730	61.279	-4.584	1.00	0.00	O
ATOM	2901	N	ILE	307	25.611	59.319	-5.266	1.00	0.00	N
ATOM	2902	HN	ILE	307	25.680	58.633	-6.018	1.00	0.00	H
ATOM	2903	CA	ILE	307	26.386	59.129	-4.076	1.00	0.00	C
ATOM	2904	CB	ILE	307	27.308	57.948	-4.155	1.00	0.00	C
ATOM	2905	CG1	ILE	307	26.505	56.648	-4.334	1.00	0.00	C
ATOM	2906	CG2	ILE	307	28.187	57.958	-2.893	1.00	0.00	C
ATOM	2907	CD1	ILE	307	25.537	56.361	-3.187	1.00	0.00	C
ATOM	2908	C	ILE	307	27.227	60.350	-3.923	1.00	0.00	C
ATOM	2909	O	ILE	307	27.485	60.802	-2.808	1.00	0.00	O
ATOM	2910	N	GLY	308	27.684	60.913	-5.054	1.00	0.00	N
ATOM	2911	HN	GLY	308	27.420	60.515	-5.955	1.00	0.00	H
ATOM	2912	CA	GLY	308	28.536	62.064	-5.013	1.00	0.00	C
ATOM	2913	C	GLY	308	27.852	63.216	-4.332	1.00	0.00	C
ATOM	2914	O	GLY	308	28.454	63.897	-3.503	1.00	0.00	O
ATOM	2915	N	ALA	309	26.571	63.480	-4.645	1.00	0.00	N
ATOM	2916	HN	ALA	309	26.047	62.879	-5.281	1.00	0.00	H
ATOM	2917	CA	ALA	309	25.970	64.639	-4.051	1.00	0.00	C
ATOM	2918	CB	ALA	309	24.525	64.873	-4.521	1.00	0.00	C
ATOM	2919	C	ALA	309	25.940	64.475	-2.562	1.00	0.00	C
ATOM	2920	O	ALA	309	26.381	65.352	-1.820	1.00	0.00	O
ATOM	2921	N	PHE	310	25.501	63.296	-2.087	1.00	0.00	N
ATOM	2922	HN	PHE	310	25.293	62.539	-2.738	1.00	0.00	H
ATOM	2923	CA	PHE	310	25.321	63.086	-0.680	1.00	0.00	C
ATOM	2924	CB	PHE	310	24.730	61.703	-0.364	1.00	0.00	C
ATOM	2925	CG	PHE	310	23.366	61.714	-0.970	1.00	0.00	C
ATOM	2926	CD1	PHE	310	23.184	61.347	-2.283	1.00	0.00	C
ATOM	2927	CD2	PHE	310	22.272	62.109	-0.236	1.00	0.00	C
ATOM	2928	CE1	PHE	310	21.931	61.363	-2.849	1.00	0.00	C
ATOM	2929	CE2	PHE	310	21.016	62.127	-0.797	1.00	0.00	C
ATOM	2930	CZ	PHE	310	20.842	61.752	-2.106	1.00	0.00	C
ATOM	2931	C	PHE	310	26.628	63.258	0.027	1.00	0.00	C
ATOM	2932	O	PHE	310	26.689	63.850	1.104	1.00	0.00	O
ATOM	2933	N	SER	311	27.719	62.754	-0.568	1.00	0.00	N
ATOM	2934	HN	SER	311	27.636	62.292	-1.473	1.00	0.00	H
ATOM	2935	CA	SER	311	29.001	62.862	0.063	1.00	0.00	C
ATOM	2936	CB	SER	311	30.072	62.081	-0.714	1.00	0.00	C
ATOM	2937	OG	SER	311	29.923	62.306	-2.108	1.00	0.00	O
ATOM	2938	HG	SER	311	30.585	61.823	-2.588	1.00	0.00	H
ATOM	2939	C	SER	311	29.373	64.307	0.216	1.00	0.00	C
ATOM	2940	O	SER	311	30.062	64.679	1.166	1.00	0.00	O
ATOM	2941	N	VAL	312	28.900	65.175	-0.696	1.00	0.00	N
ATOM	2942	HN	VAL	312	28.328	64.840	-1.471	1.00	0.00	H
ATOM	2943	CA	VAL	312	29.201	66.573	-0.577	1.00	0.00	C
ATOM	2944	CB	VAL	312	28.577	67.397	-1.662	1.00	0.00	C
ATOM	2945	CG1	VAL	312	28.871	68.879	-1.374	1.00	0.00	C
ATOM	2946	CG2	VAL	312	29.093	66.899	-3.022	1.00	0.00	C
ATOM	2947	C	VAL	312	28.610	67.031	0.712	1.00	0.00	C
ATOM	2948	O	VAL	312	29.160	67.893	1.398	1.00	0.00	O
ATOM	2949	N	GLY	313	27.440	66.473	1.065	1.00	0.00	N
ATOM	2950	HN	GLY	313	27.011	65.754	0.482	1.00	0.00	H
ATOM	2951	CA	GLY	313	26.808	66.904	2.271	1.00	0.00	C
ATOM	2952	C	GLY	313	27.672	66.579	3.451	1.00	0.00	C
ATOM	2953	O	GLY	313	27.964	67.447	4.265	1.00	0.00	O
ATOM	2954	N	GLN	314	28.174	65.340	3.550	1.00	0.00	N
ATOM	2955	HN	GLN	314	28.035	64.672	2.791	1.00	0.00	H
ATOM	2956	CA	GLN	314	28.907	64.951	4.723	1.00	0.00	C
ATOM	2957	CB	GLN	314	29.395	63.497	4.640	1.00	0.00	C

ATOM	2958	CG	GLN	314	29.869	62.951	5.982	1.00	0.00	C
ATOM	2959	CD	GLN	314	28.622	62.775	6.834	1.00	0.00	C
ATOM	2960	OE1	GLN	314	27.650	63.516	6.694	1.00	0.00	O
ATOM	2961	NE2	GLN	314	28.641	61.757	7.736	1.00	0.00	N
ATOM	2962	1HE2	GLN	314	27.804	61.639	8.308	1.00	0.00	H
ATOM	2963	2HE2	GLN	314	29.447	61.143	7.852	1.00	0.00	H
ATOM	2964	C	GLN	314	30.106	65.826	4.845	1.00	0.00	C
ATOM	2965	O	GLN	314	30.501	66.232	5.940	1.00	0.00	O
ATOM	2966	N	ALA	315	30.704	66.160	3.695	1.00	0.00	N
ATOM	2967	HN	ALA	315	30.312	65.843	2.808	1.00	0.00	H
ATOM	2968	CA	ALA	315	31.885	66.956	3.704	1.00	0.00	C
ATOM	2969	CB	ALA	315	32.393	67.270	2.288	1.00	0.00	C
ATOM	2970	C	ALA	315	31.566	68.258	4.372	1.00	0.00	C
ATOM	2971	O	ALA	315	32.379	68.777	5.134	1.00	0.00	O
ATOM	2972	N	SER	316	30.363	68.811	4.123	1.00	0.00	N
ATOM	2973	HN	SER	316	29.678	68.300	3.566	1.00	0.00	H
ATOM	2974	CA	SER	316	30.034	70.114	4.635	1.00	0.00	C
ATOM	2975	CB	SER	316	28.635	70.599	4.205	1.00	0.00	C
ATOM	2976	OG	SER	316	28.579	70.742	2.793	1.00	0.00	O
ATOM	2977	HG	SER	316	27.717	71.041	2.528	1.00	0.00	H
ATOM	2978	C	SER	316	30.126	70.166	6.135	1.00	0.00	C
ATOM	2979	O	SER	316	30.834	71.037	6.640	1.00	0.00	O
ATOM	2980	N	PRO	317	29.494	69.323	6.914	1.00	0.00	N
ATOM	2981	CA	PRO	317	29.686	69.501	8.323	1.00	0.00	C
ATOM	2982	CD	PRO	317	28.129	68.901	6.648	1.00	0.00	C
ATOM	2983	CB	PRO	317	28.632	68.639	9.009	1.00	0.00	C
ATOM	2984	CG	PRO	317	27.459	68.692	8.017	1.00	0.00	C
ATOM	2985	C	PRO	317	31.087	69.293	8.795	1.00	0.00	C
ATOM	2986	O	PRO	317	31.484	69.934	9.766	1.00	0.00	O
ATOM	2987	N	SER	318	31.865	68.416	8.141	1.00	0.00	N
ATOM	2988	HN	SER	318	31.512	67.911	7.328	1.00	0.00	H
ATOM	2989	CA	SER	318	33.202	68.204	8.609	1.00	0.00	C
ATOM	2990	CB	SER	318	33.950	67.126	7.806	1.00	0.00	C
ATOM	2991	OG	SER	318	33.319	65.864	7.966	1.00	0.00	O
ATOM	2992	HG	SER	318	33.781	65.198	7.470	1.00	0.00	H
ATOM	2993	C	SER	318	33.948	69.492	8.451	1.00	0.00	C
ATOM	2994	O	SER	318	34.712	69.894	9.328	1.00	0.00	O
ATOM	2995	N	ILE	319	33.713	70.186	7.324	1.00	0.00	N
ATOM	2996	HN	ILE	319	33.017	69.832	6.667	1.00	0.00	H
ATOM	2997	CA	ILE	319	34.402	71.405	7.008	1.00	0.00	C
ATOM	2998	CB	ILE	319	34.004	71.959	5.676	1.00	0.00	C
ATOM	2999	CG1	ILE	319	34.393	70.975	4.561	1.00	0.00	C
ATOM	3000	CG2	ILE	319	34.645	73.349	5.531	1.00	0.00	C
ATOM	3001	CD1	ILE	319	33.749	71.288	3.214	1.00	0.00	C
ATOM	3002	C	ILE	319	34.070	72.429	8.036	1.00	0.00	C
ATOM	3003	O	ILE	319	34.952	73.152	8.499	1.00	0.00	O
ATOM	3004	N	GLU	320	32.785	72.496	8.435	1.00	0.00	N
ATOM	3005	HN	GLU	320	32.100	71.840	8.058	1.00	0.00	H
ATOM	3006	CA	GLU	320	32.378	73.485	9.386	1.00	0.00	C
ATOM	3007	CB	GLU	320	30.918	73.333	9.841	1.00	0.00	C
ATOM	3008	CG	GLU	320	30.511	74.401	10.858	1.00	0.00	C
ATOM	3009	CD	GLU	320	29.171	74.009	11.464	1.00	0.00	C
ATOM	3010	OE1	GLU	320	28.683	72.890	11.155	1.00	0.00	O
ATOM	3011	OE2	GLU	320	28.621	74.824	12.251	1.00	0.00	O
ATOM	3012	C	GLU	320	33.210	73.284	10.604	1.00	0.00	C
ATOM	3013	O	GLU	320	33.705	74.238	11.199	1.00	0.00	O
ATOM	3014	N	ALA	321	33.433	72.017	10.976	1.00	0.00	N
ATOM	3015	HN	ALA	321	33.081	71.244	10.411	1.00	0.00	H
ATOM	3016	CA	ALA	321	34.169	71.759	12.173	1.00	0.00	C
ATOM	3017	CB	ALA	321	34.339	70.258	12.439	1.00	0.00	C
ATOM	3018	C	ALA	321	35.538	72.361	12.062	1.00	0.00	C
ATOM	3019	O	ALA	321	36.002	73.019	12.992	1.00	0.00	O
ATOM	3020	N	PHE	322	36.209	72.194	10.907	1.00	0.00	N
ATOM	3021	HN	PHE	322	35.757	71.727	10.121	1.00	0.00	H
ATOM	3022	CA	PHE	322	37.558	72.670	10.776	1.00	0.00	C
ATOM	3023	CB	PHE	322	38.133	72.433	9.366	1.00	0.00	C
ATOM	3024	CG	PHE	322	39.566	72.856	9.353	1.00	0.00	C
ATOM	3025	CD1	PHE	322	39.920	74.181	9.225	1.00	0.00	C
ATOM	3026	CD2	PHE	322	40.565	71.915	9.455	1.00	0.00	C
ATOM	3027	CE1	PHE	322	41.240	74.563	9.212	1.00	0.00	C
ATOM	3028	CE2	PHE	322	41.888	72.289	9.440	1.00	0.00	C
ATOM	3029	CZ	PHE	322	42.228	73.615	9.320	1.00	0.00	C
ATOM	3030	C	PHE	322	37.582	74.146	11.008	1.00	0.00	C
ATOM	3031	O	PHE	322	38.311	74.634	11.867	1.00	0.00	O

ATOM	3032	N	ALA	323	36.732	74.895	10.288	1.00	0.00	N
ATOM	3033	HN	ALA	323	36.042	74.438	9.691	1.00	0.00	H
ATOM	3034	CA	ALA	323	36.778	76.328	10.344	1.00	0.00	C
ATOM	3035	CB	ALA	323	35.713	76.989	9.452	1.00	0.00	C
ATOM	3036	C	ALA	323	36.531	76.786	11.746	1.00	0.00	C
ATOM	3037	O	ALA	323	37.187	77.715	12.216	1.00	0.00	O
ATOM	3038	N	ASN	324	35.581	76.144	12.455	1.00	0.00	N
ATOM	3039	HN	ASN	324	35.100	75.345	12.043	1.00	0.00	H
ATOM	3040	CA	ASN	324	35.237	76.570	13.784	1.00	0.00	C
ATOM	3041	CB	ASN	324	34.138	75.707	14.434	1.00	0.00	C
ATOM	3042	CG	ASN	324	32.816	75.937	13.717	1.00	0.00	C
ATOM	3043	OD1	ASN	324	32.778	76.206	12.518	1.00	0.00	O
ATOM	3044	ND2	ASN	324	31.693	75.823	14.475	1.00	0.00	N
ATOM	3045	1HD2	ASN	324	30.807	75.977	13.994	1.00	0.00	H
ATOM	3046	2HD2	ASN	324	31.725	75.600	15.470	1.00	0.00	H
ATOM	3047	C	ASN	324	36.431	76.436	14.670	1.00	0.00	C
ATOM	3048	O	ASN	324	36.784	77.366	15.394	1.00	0.00	O
ATOM	3049	N	ALA	325	37.104	75.273	14.610	1.00	0.00	N
ATOM	3050	HN	ALA	325	36.813	74.560	13.941	1.00	0.00	H
ATOM	3051	CA	ALA	325	38.221	75.016	15.467	1.00	0.00	C
ATOM	3052	CB	ALA	325	38.837	73.627	15.234	1.00	0.00	C
ATOM	3053	C	ALA	325	39.269	76.029	15.172	1.00	0.00	C
ATOM	3054	O	ALA	325	39.938	76.511	16.084	1.00	0.00	O
ATOM	3055	N	ARG	326	39.452	76.363	13.882	1.00	0.00	N
ATOM	3056	HN	ARG	326	38.872	75.946	13.154	1.00	0.00	H
ATOM	3057	CA	ARG	326	40.468	77.309	13.541	1.00	0.00	C
ATOM	3058	CB	ARG	326	40.585	77.549	12.027	1.00	0.00	C
ATOM	3059	CG	ARG	326	41.839	78.333	11.629	1.00	0.00	C
ATOM	3060	CD	ARG	326	42.037	78.428	10.115	1.00	0.00	C
ATOM	3061	NE	ARG	326	41.794	79.840	9.707	1.00	0.00	N
ATOM	3062	HE	ARG	326	42.164	80.603	10.273	1.00	0.00	H
ATOM	3063	CZ	ARG	326	41.078	80.116	8.578	1.00	0.00	C
ATOM	3064	NH1	ARG	326	40.442	79.110	7.909	1.00	0.00	N
ATOM	3065	1HH1	ARG	326	40.502	78.151	8.252	1.00	0.00	H
ATOM	3066	2HH1	ARG	326	39.907	79.316	7.065	1.00	0.00	H
ATOM	3067	NH2	ARG	326	40.998	81.400	8.119	1.00	0.00	N
ATOM	3068	1HH2	ARG	326	41.473	82.152	8.619	1.00	0.00	H
ATOM	3069	2HH2	ARG	326	40.463	81.606	7.275	1.00	0.00	H
ATOM	3070	C	ARG	326	40.147	78.621	14.173	1.00	0.00	C
ATOM	3071	O	ARG	326	40.952	79.147	14.937	1.00	0.00	O
ATOM	3072	N	GLY	327	38.920	79.133	13.954	1.00	0.00	N
ATOM	3073	HN	GLY	327	38.226	78.584	13.447	1.00	0.00	H
ATOM	3074	CA	GLY	327	38.582	80.445	14.428	1.00	0.00	C
ATOM	3075	C	GLY	327	38.774	80.466	15.905	1.00	0.00	C
ATOM	3076	O	GLY	327	39.327	81.418	16.457	1.00	0.00	O
ATOM	3077	N	ALA	328	38.335	79.397	16.588	1.00	0.00	N
ATOM	3078	HN	ALA	328	37.921	78.595	16.113	1.00	0.00	H
ATOM	3079	CA	ALA	328	38.473	79.431	18.005	1.00	0.00	C
ATOM	3080	CB	ALA	328	37.875	78.187	18.684	1.00	0.00	C
ATOM	3081	C	ALA	328	39.919	79.491	18.379	1.00	0.00	C
ATOM	3082	O	ALA	328	40.355	80.494	18.937	1.00	0.00	O
ATOM	3083	N	ALA	329	40.726	78.481	17.982	1.00	0.00	N
ATOM	3084	HN	ALA	329	40.371	77.743	17.373	1.00	0.00	H
ATOM	3085	CA	ALA	329	42.088	78.463	18.430	1.00	0.00	C
ATOM	3086	CB	ALA	329	42.923	77.300	17.872	1.00	0.00	C
ATOM	3087	C	ALA	329	42.762	79.659	17.922	1.00	0.00	C
ATOM	3088	O	ALA	329	43.040	80.516	18.723	1.00	0.00	O
ATOM	3089	N	TYR	330	42.834	79.879	16.605	1.00	0.00	N
ATOM	3090	HN	TYR	330	42.267	79.311	15.975	1.00	0.00	H
ATOM	3091	CA	TYR	330	43.688	80.893	16.054	1.00	0.00	C
ATOM	3092	CB	TYR	330	43.493	80.971	14.529	1.00	0.00	C
ATOM	3093	CG	TYR	330	43.916	82.314	14.062	1.00	0.00	C
ATOM	3094	CD1	TYR	330	45.226	82.593	13.753	1.00	0.00	C
ATOM	3095	CD2	TYR	330	42.968	83.302	13.944	1.00	0.00	C
ATOM	3096	CE1	TYR	330	45.582	83.851	13.327	1.00	0.00	C
ATOM	3097	CE2	TYR	330	43.319	84.560	13.518	1.00	0.00	C
ATOM	3098	CZ	TYR	330	44.629	84.834	13.209	1.00	0.00	C
ATOM	3099	OH	TYR	330	44.993	86.125	12.772	1.00	0.00	O
ATOM	3100	HH	TYR	330	45.899	86.315	12.558	1.00	0.00	H
ATOM	3101	C	TYR	330	43.467	82.255	16.651	1.00	0.00	C
ATOM	3102	O	TYR	330	44.434	82.896	17.061	1.00	0.00	O
ATOM	3103	N	GLU	331	42.217	82.746	16.731	1.00	0.00	N
ATOM	3104	HN	GLU	331	41.421	82.186	16.427	1.00	0.00	H
ATOM	3105	CA	GLU	331	42.019	84.076	17.252	1.00	0.00	C

ATOM	3106	CB	GLU	331	40.552	84.528	17.141	1.00	0.00	C
ATOM	3107	CG	GLU	331	40.078	84.734	15.702	1.00	0.00	C
ATOM	3108	CD	GLU	331	38.572	84.959	15.734	1.00	0.00	C
ATOM	3109	OE1	GLU	331	37.837	83.999	16.088	1.00	0.00	O
ATOM	3110	OE2	GLU	331	38.136	86.094	15.406	1.00	0.00	O
ATOM	3111	C	GLU	331	42.388	84.133	18.708	1.00	0.00	C
ATOM	3112	O	GLU	331	43.207	84.947	19.131	1.00	0.00	O
ATOM	3113	N	ILE	332	41.811	83.215	19.499	1.00	0.00	N
ATOM	3114	HN	ILE	332	41.220	82.520	19.042	1.00	0.00	H
ATOM	3115	CA	ILE	332	41.944	83.115	20.927	1.00	0.00	C
ATOM	3116	CB	ILE	332	41.100	82.076	21.597	1.00	0.00	C
ATOM	3117	CG1	ILE	332	41.662	80.675	21.315	1.00	0.00	C
ATOM	3118	CG2	ILE	332	39.650	82.276	21.127	1.00	0.00	C
ATOM	3119	CD1	ILE	332	41.061	79.583	22.197	1.00	0.00	C
ATOM	3120	C	ILE	332	43.333	82.695	21.257	1.00	0.00	C
ATOM	3121	O	ILE	332	43.615	82.447	22.422	1.00	0.00	O
ATOM	3122	N	PHE	333	44.048	82.245	20.214	1.00	0.00	N
ATOM	3123	HN	PHE	333	43.540	82.251	19.329	1.00	0.00	H
ATOM	3124	CA	PHE	333	45.397	81.756	20.111	1.00	0.00	C
ATOM	3125	CB	PHE	333	45.691	81.061	18.767	1.00	0.00	C
ATOM	3126	CG	PHE	333	47.045	80.450	18.760	1.00	0.00	C
ATOM	3127	CD1	PHE	333	48.147	81.207	18.444	1.00	0.00	C
ATOM	3128	CD2	PHE	333	47.207	79.114	19.051	1.00	0.00	C
ATOM	3129	CE1	PHE	333	49.398	80.639	18.428	1.00	0.00	C
ATOM	3130	CE2	PHE	333	48.457	78.542	19.037	1.00	0.00	C
ATOM	3131	CZ	PHE	333	49.555	79.307	18.726	1.00	0.00	C
ATOM	3132	C	PHE	333	46.290	82.925	20.139	1.00	0.00	C
ATOM	3133	O	PHE	333	47.360	82.893	20.731	1.00	0.00	O
ATOM	3134	N	LYS	334	45.886	83.997	19.442	1.00	0.00	N
ATOM	3135	HN	LYS	334	45.040	83.967	18.873	1.00	0.00	H
ATOM	3136	CA	LYS	334	46.676	85.177	19.523	1.00	0.00	C
ATOM	3137	CB	LYS	334	46.116	86.344	18.689	1.00	0.00	C
ATOM	3138	CG	LYS	334	46.273	86.135	17.180	1.00	0.00	C
ATOM	3139	CD	LYS	334	45.468	87.115	16.325	1.00	0.00	C
ATOM	3140	CE	LYS	334	43.995	86.729	16.176	1.00	0.00	C
ATOM	3141	NZ	LYS	334	43.303	87.701	15.302	1.00	0.00	N
ATOM	3142	HZ1	LYS	334	42.321	87.444	15.203	1.00	0.00	H
ATOM	3143	HZ2	LYS	334	43.766	87.799	14.398	1.00	0.00	H
ATOM	3144	HZ3	LYS	334	43.415	88.660	15.632	1.00	0.00	H
ATOM	3145	C	LYS	334	46.558	85.499	20.951	1.00	0.00	C
ATOM	3146	O	LYS	334	47.502	85.970	21.574	1.00	0.00	O
ATOM	3147	N	ILE	335	45.361	85.212	21.489	1.00	0.00	N
ATOM	3148	HN	ILE	335	44.615	84.891	20.873	1.00	0.00	H
ATOM	3149	CA	ILE	335	45.088	85.336	22.877	1.00	0.00	C
ATOM	3150	CB	ILE	335	43.651	85.066	23.222	1.00	0.00	C
ATOM	3151	CG1	ILE	335	42.723	86.059	22.504	1.00	0.00	C
ATOM	3152	CG2	ILE	335	43.516	85.105	24.752	1.00	0.00	C
ATOM	3153	CD1	ILE	335	41.244	85.679	22.579	1.00	0.00	C
ATOM	3154	C	ILE	335	45.933	84.331	23.594	1.00	0.00	C
ATOM	3155	O	ILE	335	46.440	84.600	24.683	1.00	0.00	O
ATOM	3156	N	ILE	336	46.060	83.117	23.018	1.00	0.00	N
ATOM	3157	HN	ILE	336	45.650	82.940	22.101	1.00	0.00	H
ATOM	3158	CA	ILE	336	46.773	82.077	23.699	1.00	0.00	C
ATOM	3159	CB	ILE	336	46.611	80.753	23.009	1.00	0.00	C
ATOM	3160	CG1	ILE	336	45.153	80.275	23.124	1.00	0.00	C
ATOM	3161	CG2	ILE	336	47.656	79.773	23.568	1.00	0.00	C
ATOM	3162	CD1	ILE	336	44.820	79.096	22.212	1.00	0.00	C
ATOM	3163	C	ILE	336	48.248	82.360	23.794	1.00	0.00	C
ATOM	3164	O	ILE	336	48.736	82.784	24.840	1.00	0.00	O
ATOM	3165	N	ASP	337	48.965	82.304	22.655	1.00	0.00	N
ATOM	3166	HN	ASP	337	48.480	82.195	21.764	1.00	0.00	H
ATOM	3167	CA	ASP	337	50.391	82.394	22.670	1.00	0.00	C
ATOM	3168	CB	ASP	337	51.056	82.330	21.279	1.00	0.00	C
ATOM	3169	CG	ASP	337	51.123	80.881	20.806	1.00	0.00	C
ATOM	3170	OD1	ASP	337	50.421	80.019	21.399	1.00	0.00	O
ATOM	3171	OD2	ASP	337	51.897	80.614	19.847	1.00	0.00	O
ATOM	3172	C	ASP	337	50.852	83.692	23.320	1.00	0.00	C
ATOM	3173	O	ASP	337	51.593	83.642	24.301	1.00	0.00	O
ATOM	3174	N	ASN	338	50.341	84.870	22.883	1.00	0.00	N
ATOM	3175	HN	ASN	338	49.545	84.838	22.246	1.00	0.00	H
ATOM	3176	CA	ASN	338	50.856	86.178	23.266	1.00	0.00	C
ATOM	3177	CB	ASN	338	49.940	87.373	22.901	1.00	0.00	C
ATOM	3178	CG	ASN	338	48.589	87.414	23.633	1.00	0.00	C
ATOM	3179	OD1	ASN	338	47.626	87.954	23.099	1.00	0.00	O

ATOM	3180	ND2	ASN	338	48.469	86.897	24.880	1.00	0.00	N
ATOM	3181	1HD2	ASN	338	49.270	86.448	25.324	1.00	0.00	H
ATOM	3182	2HD2	ASN	338	47.572	86.924	25.366	1.00	0.00	H
ATOM	3183	C	ASN	338	51.273	86.323	24.741	1.00	0.00	C
ATOM	3184	O	ASN	338	50.693	85.728	25.643	1.00	0.00	O
ATOM	3185	N	LYS	339	52.405	87.050	24.972	1.00	0.00	N
ATOM	3186	HN	LYS	339	52.802	87.461	24.127	1.00	0.00	H
ATOM	3187	CA	LYS	339	53.167	87.361	26.185	1.00	0.00	C
ATOM	3188	CB	LYS	339	54.678	87.329	25.926	1.00	0.00	C
ATOM	3189	CG	LYS	339	55.470	86.957	27.177	1.00	0.00	C
ATOM	3190	CD	LYS	339	55.209	85.525	27.662	1.00	0.00	C
ATOM	3191	CE	LYS	339	54.000	85.394	28.595	1.00	0.00	C
ATOM	3192	NZ	LYS	339	53.727	83.966	28.885	1.00	0.00	N
ATOM	3193	HZ1	LYS	339	52.922	83.879	29.506	1.00	0.00	H
ATOM	3194	HZ2	LYS	339	54.548	83.489	29.257	1.00	0.00	H
ATOM	3195	HZ3	LYS	339	53.610	83.420	28.031	1.00	0.00	H
ATOM	3196	C	LYS	339	52.846	88.604	27.007	1.00	0.00	C
ATOM	3197	O	LYS	339	53.643	88.865	27.909	1.00	0.00	O
ATOM	3198	N	PRO	340	51.861	89.440	26.782	1.00	0.00	N
ATOM	3199	CA	PRO	340	51.812	90.777	27.382	1.00	0.00	C
ATOM	3200	CD	PRO	340	50.556	88.980	26.342	1.00	0.00	C
ATOM	3201	CB	PRO	340	50.343	91.197	27.309	1.00	0.00	C
ATOM	3202	CG	PRO	340	49.711	90.262	26.259	1.00	0.00	C
ATOM	3203	C	PRO	340	52.388	91.101	28.775	1.00	0.00	C
ATOM	3204	O	PRO	340	53.544	91.517	28.839	1.00	0.00	O
ATOM	3205	N	SER	341	51.628	90.962	29.884	1.00	0.00	N
ATOM	3206	HN	SER	341	50.635	90.783	29.737	1.00	0.00	H
ATOM	3207	CA	SER	341	52.080	91.041	31.270	1.00	0.00	C
ATOM	3208	CB	SER	341	52.953	89.836	31.644	1.00	0.00	C
ATOM	3209	OG	SER	341	54.173	89.896	30.921	1.00	0.00	O
ATOM	3210	HG	SER	341	54.714	89.150	31.153	1.00	0.00	H
ATOM	3211	C	SER	341	52.826	92.267	31.820	1.00	0.00	C
ATOM	3212	O	SER	341	53.483	92.122	32.831	1.00	0.00	O
ATOM	3213	N	ILE	342	52.809	93.499	31.302	1.00	0.00	N
ATOM	3214	HN	ILE	342	52.258	93.675	30.462	1.00	0.00	H
ATOM	3215	CA	ILE	342	53.561	94.607	31.908	1.00	0.00	C
ATOM	3216	CB	ILE	342	53.711	95.751	30.952	1.00	0.00	C
ATOM	3217	CG1	ILE	342	54.481	95.288	29.703	1.00	0.00	C
ATOM	3218	CG2	ILE	342	54.398	96.911	31.691	1.00	0.00	C
ATOM	3219	CD1	ILE	342	55.909	94.833	30.004	1.00	0.00	C
ATOM	3220	C	ILE	342	52.943	95.141	33.173	1.00	0.00	C
ATOM	3221	O	ILE	342	53.596	95.731	34.037	1.00	0.00	O
ATOM	3222	N	ASP	343	51.621	95.003	33.262	1.00	0.00	N
ATOM	3223	HN	ASP	343	51.162	94.428	32.556	1.00	0.00	H
ATOM	3224	CA	ASP	343	50.791	95.596	34.268	1.00	0.00	C
ATOM	3225	CB	ASP	343	49.297	95.375	33.974	1.00	0.00	C
ATOM	3226	CG	ASP	343	49.037	93.880	33.877	1.00	0.00	C
ATOM	3227	OD1	ASP	343	49.352	93.148	34.853	1.00	0.00	O
ATOM	3228	OD2	ASP	343	48.513	93.453	32.813	1.00	0.00	O
ATOM	3229	C	ASP	343	51.100	95.106	35.646	1.00	0.00	C
ATOM	3230	O	ASP	343	50.485	95.569	36.603	1.00	0.00	O
ATOM	3231	N	SER	344	51.965	94.091	35.796	1.00	0.00	N
ATOM	3232	HN	SER	344	52.441	93.690	34.988	1.00	0.00	H
ATOM	3233	CA	SER	344	52.207	93.582	37.114	1.00	0.00	C
ATOM	3234	CB	SER	344	51.229	92.460	37.490	1.00	0.00	C
ATOM	3235	OG	SER	344	49.889	92.907	37.378	1.00	0.00	O
ATOM	3236	HG	SER	344	49.284	92.213	37.611	1.00	0.00	H
ATOM	3237	C	SER	344	53.541	92.936	37.123	1.00	0.00	C
ATOM	3238	O	SER	344	54.471	93.438	37.756	1.00	0.00	O
ATOM	3239	N	TYR	345	53.619	91.749	36.475	1.00	0.00	N
ATOM	3240	HN	TYR	345	52.782	91.340	36.060	1.00	0.00	H
ATOM	3241	CA	TYR	345	54.868	91.069	36.371	1.00	0.00	C
ATOM	3242	CB	TYR	345	56.023	92.014	35.986	1.00	0.00	C
ATOM	3243	CG	TYR	345	57.177	91.215	35.483	1.00	0.00	C
ATOM	3244	CD1	TYR	345	56.968	90.029	34.817	1.00	0.00	C
ATOM	3245	CD2	TYR	345	58.468	91.638	35.692	1.00	0.00	C
ATOM	3246	CE1	TYR	345	58.027	89.287	34.349	1.00	0.00	C
ATOM	3247	CE2	TYR	345	59.528	90.901	35.220	1.00	0.00	C
ATOM	3248	CZ	TYR	345	59.312	89.726	34.548	1.00	0.00	C
ATOM	3249	OH	TYR	345	60.405	88.973	34.069	1.00	0.00	O
ATOM	3250	HH	TYR	345	61.294	89.277	34.207	1.00	0.00	H
ATOM	3251	C	TYR	345	55.081	90.398	37.683	1.00	0.00	C
ATOM	3252	O	TYR	345	54.265	90.551	38.589	1.00	0.00	O
ATOM	3253	N	SER	346	56.045	89.464	37.750	1.00	0.00	N

ATOM	3254	HN	SER	346	56.514	89.145	36.903	1.00	0.00	H
ATOM	3255	CA	SER	346	56.402	88.927	39.015	1.00	0.00	C
ATOM	3256	CB	SER	346	55.855	87.510	39.244	1.00	0.00	C
ATOM	3257	OG	SER	346	54.435	87.534	39.249	1.00	0.00	O
ATOM	3258	HG	SER	346	54.097	86.658	39.391	1.00	0.00	H
ATOM	3259	C	SER	346	57.887	88.831	38.975	1.00	0.00	C
ATOM	3260	O	SER	346	58.408	87.750	38.708	1.00	0.00	O
ATOM	3261	N	LYS	347	58.583	89.959	39.270	1.00	0.00	N
ATOM	3262	HN	LYS	347	58.058	90.784	39.559	1.00	0.00	H
ATOM	3263	CA	LYS	347	60.018	90.061	39.199	1.00	0.00	C
ATOM	3264	CB	LYS	347	60.548	90.778	37.962	1.00	0.00	C
ATOM	3265	CG	LYS	347	60.229	92.271	38.005	1.00	0.00	C
ATOM	3266	CD	LYS	347	61.082	93.126	37.073	1.00	0.00	C
ATOM	3267	CE	LYS	347	61.023	94.609	37.432	1.00	0.00	C
ATOM	3268	NZ	LYS	347	59.630	94.992	37.748	1.00	0.00	N
ATOM	3269	HZ1	LYS	347	59.591	95.983	37.988	1.00	0.00	H
ATOM	3270	HZ2	LYS	347	59.227	94.404	38.477	1.00	0.00	H
ATOM	3271	HZ3	LYS	347	58.986	94.754	36.994	1.00	0.00	H
ATOM	3272	C	LYS	347	60.503	90.954	40.352	1.00	0.00	C
ATOM	3273	O	LYS	347	59.765	91.183	41.304	1.00	0.00	O
ATOM	3274	N	SER	348	61.745	91.527	40.264	1.00	0.00	N
ATOM	3275	HN	SER	348	62.237	91.395	39.380	1.00	0.00	H
ATOM	3276	CA	SER	348	62.455	92.307	41.284	1.00	0.00	C
ATOM	3277	CB	SER	348	63.876	92.708	40.846	1.00	0.00	C
ATOM	3278	OG	SER	348	63.813	93.529	39.689	1.00	0.00	O
ATOM	3279	HG	SER	348	64.690	93.776	39.419	1.00	0.00	H
ATOM	3280	C	SER	348	61.730	93.577	41.708	1.00	0.00	C
ATOM	3281	O	SER	348	60.599	93.826	41.310	1.00	0.00	O
ATOM	3282	N	GLY	349	62.316	94.417	42.606	1.00	0.00	N
ATOM	3283	HN	GLY	349	63.233	94.223	43.008	1.00	0.00	H
ATOM	3284	CA	GLY	349	61.560	95.604	42.958	1.00	0.00	C
ATOM	3285	C	GLY	349	62.063	96.323	44.203	1.00	0.00	C
ATOM	3286	O	GLY	349	63.260	96.346	44.493	1.00	0.00	O
ATOM	3287	N	HIS	350	61.107	96.958	44.946	1.00	0.00	N
ATOM	3288	HN	HIS	350	60.142	96.806	44.654	1.00	0.00	H
ATOM	3289	CA	HIS	350	61.293	97.827	46.105	1.00	0.00	C
ATOM	3290	ND1	HIS	350	59.981	101.360	47.016	1.00	0.00	N
ATOM	3291	HD1	HIS	350	59.231	101.630	46.380	1.00	0.00	H
ATOM	3292	CG	HIS	350	60.714	100.196	46.972	1.00	0.00	C
ATOM	3293	CB	HIS	350	60.505	99.140	45.926	1.00	0.00	C
ATOM	3294	NE2	HIS	350	61.427	101.461	48.699	1.00	0.00	N
ATOM	3295	HE2	HIS	350	61.946	101.786	49.515	1.00	0.00	H
ATOM	3296	CD2	HIS	350	61.594	100.273	48.008	1.00	0.00	C
ATOM	3297	CE1	HIS	350	60.447	102.080	48.067	1.00	0.00	C
ATOM	3298	C	HIS	350	60.757	97.166	47.359	1.00	0.00	C
ATOM	3299	O	HIS	350	59.835	96.358	47.277	1.00	0.00	O
ATOM	3300	N	LYS	351	61.305	97.472	48.571	1.00	0.00	N
ATOM	3301	HN	LYS	351	62.069	98.143	48.655	1.00	0.00	H
ATOM	3302	CA	LYS	351	60.753	96.801	49.736	1.00	0.00	C
ATOM	3303	CB	LYS	351	61.508	95.514	50.078	1.00	0.00	C
ATOM	3304	CG	LYS	351	61.281	94.471	48.987	1.00	0.00	C
ATOM	3305	CD	LYS	351	62.237	93.287	49.029	1.00	0.00	C
ATOM	3306	CE	LYS	351	61.828	92.165	48.076	1.00	0.00	C
ATOM	3307	NZ	LYS	351	62.834	91.082	48.103	1.00	0.00	N
ATOM	3308	HZ1	LYS	351	62.561	90.333	47.467	1.00	0.00	H
ATOM	3309	HZ2	LYS	351	62.999	90.738	49.049	1.00	0.00	H
ATOM	3310	HZ3	LYS	351	63.773	91.428	47.904	1.00	0.00	H
ATOM	3311	C	LYS	351	60.632	97.646	50.993	1.00	0.00	C
ATOM	3312	O	LYS	351	61.617	98.010	51.637	1.00	0.00	O
ATOM	3313	N	PRO	352	59.406	97.977	51.351	1.00	0.00	N
ATOM	3314	CA	PRO	352	59.083	98.691	52.579	1.00	0.00	C
ATOM	3315	CD	PRO	352	58.318	98.017	50.398	1.00	0.00	C
ATOM	3316	CB	PRO	352	57.685	99.262	52.380	1.00	0.00	C
ATOM	3317	CG	PRO	352	57.093	98.421	51.236	1.00	0.00	C
ATOM	3318	C	PRO	352	59.150	97.795	53.772	1.00	0.00	C
ATOM	3319	O	PRO	352	58.122	97.245	54.173	1.00	0.00	O
ATOM	3320	N	ASP	353	60.319	97.732	54.415	1.00	0.00	N
ATOM	3321	HN	ASP	353	61.076	98.349	54.121	1.00	0.00	H
ATOM	3322	CA	ASP	353	60.548	96.831	55.500	1.00	0.00	C
ATOM	3323	CB	ASP	353	62.043	96.601	55.743	1.00	0.00	C
ATOM	3324	CG	ASP	353	62.529	95.874	54.491	1.00	0.00	C
ATOM	3325	OD1	ASP	353	61.693	95.666	53.570	1.00	0.00	O
ATOM	3326	OD2	ASP	353	63.736	95.523	54.434	1.00	0.00	O
ATOM	3327	C	ASP	353	59.864	97.285	56.741	1.00	0.00	C

ATOM	3328	O	ASP	353	59.558	96.459	57.602	1.00	0.00	O
ATOM	3329	N	ASN	354	59.650	98.611	56.880	1.00	0.00	N
ATOM	3330	HN	ASN	354	60.003	99.264	56.180	1.00	0.00	H
ATOM	3331	CA	ASN	354	58.925	99.095	58.015	1.00	0.00	C
ATOM	3332	CB	ASN	354	58.659	100.609	57.956	1.00	0.00	C
ATOM	3333	CG	ASN	354	57.861	100.890	56.690	1.00	0.00	C
ATOM	3334	OD1	ASN	354	56.636	100.787	56.686	1.00	0.00	O
ATOM	3335	ND2	ASN	354	58.567	101.230	55.578	1.00	0.00	N
ATOM	3336	1HD2	ASN	354	59.583	101.315	55.581	1.00	0.00	H
ATOM	3337	2HD2	ASN	354	58.032	101.418	54.730	1.00	0.00	H
ATOM	3338	C	ASN	354	57.634	98.368	57.878	1.00	0.00	C
ATOM	3339	O	ASN	354	57.045	98.291	56.812	1.00	0.00	O
ATOM	3340	N	ILE	355	57.211	97.641	58.898	1.00	0.00	N
ATOM	3341	HN	ILE	355	57.657	97.621	59.815	1.00	0.00	H
ATOM	3342	CA	ILE	355	56.056	96.891	58.553	1.00	0.00	C
ATOM	3343	CB	ILE	355	55.882	95.788	59.543	1.00	0.00	C
ATOM	3344	CG1	ILE	355	57.178	94.960	59.574	1.00	0.00	C
ATOM	3345	CG2	ILE	355	54.632	94.982	59.183	1.00	0.00	C
ATOM	3346	CD1	ILE	355	57.610	94.461	58.196	1.00	0.00	C
ATOM	3347	C	ILE	355	54.775	97.702	58.482	1.00	0.00	C
ATOM	3348	O	ILE	355	54.355	98.098	57.400	1.00	0.00	O
ATOM	3349	N	LYS	356	54.250	98.152	59.644	1.00	0.00	N
ATOM	3350	HN	LYS	356	54.841	98.100	60.474	1.00	0.00	H
ATOM	3351	CA	LYS	356	52.916	98.703	59.812	1.00	0.00	C
ATOM	3352	CB	LYS	356	52.583	99.026	61.280	1.00	0.00	C
ATOM	3353	CG	LYS	356	52.487	97.800	62.188	1.00	0.00	C
ATOM	3354	CD	LYS	356	51.351	96.845	61.818	1.00	0.00	C
ATOM	3355	CE	LYS	356	49.965	97.368	62.200	1.00	0.00	C
ATOM	3356	NZ	LYS	356	48.938	96.340	61.917	1.00	0.00	N
ATOM	3357	HZ1	LYS	356	48.014	96.689	62.172	1.00	0.00	H
ATOM	3358	HZ2	LYS	356	49.150	95.453	62.373	1.00	0.00	H
ATOM	3359	HZ3	LYS	356	48.973	96.022	60.948	1.00	0.00	H
ATOM	3360	C	LYS	356	52.697	99.975	59.057	1.00	0.00	C
ATOM	3361	O	LYS	356	53.640	100.663	58.667	1.00	0.00	O
ATOM	3362	N	GLY	357	51.398	100.293	58.818	1.00	0.00	N
ATOM	3363	HN	GLY	357	50.663	99.651	59.116	1.00	0.00	H
ATOM	3364	CA	GLY	357	51.039	101.516	58.154	1.00	0.00	C
ATOM	3365	C	GLY	357	49.552	101.591	57.943	1.00	0.00	C
ATOM	3366	O	GLY	357	48.800	100.661	58.234	1.00	0.00	O
ATOM	3367	N	ASN	358	49.090	102.735	57.398	1.00	0.00	N
ATOM	3368	HN	ASN	358	49.748	103.467	57.131	1.00	0.00	H
ATOM	3369	CA	ASN	358	47.684	102.934	57.190	1.00	0.00	C
ATOM	3370	CB	ASN	358	47.167	104.269	57.757	1.00	0.00	C
ATOM	3371	CG	ASN	358	47.363	104.268	59.269	1.00	0.00	C
ATOM	3372	OD1	ASN	358	47.892	103.318	59.843	1.00	0.00	O
ATOM	3373	ND2	ASN	358	46.922	105.364	59.941	1.00	0.00	N
ATOM	3374	1HD2	ASN	358	47.053	105.363	60.953	1.00	0.00	H
ATOM	3375	2HD2	ASN	358	46.483	106.152	59.465	1.00	0.00	H
ATOM	3376	C	ASN	358	47.454	102.970	55.719	1.00	0.00	C
ATOM	3377	O	ASN	358	48.310	103.404	54.953	1.00	0.00	O
ATOM	3378	N	LEU	359	46.285	102.468	55.287	1.00	0.00	N
ATOM	3379	HN	LEU	359	45.638	102.070	55.967	1.00	0.00	H
ATOM	3380	CA	LEU	359	45.919	102.474	53.907	1.00	0.00	C
ATOM	3381	CB	LEU	359	44.692	101.595	53.605	1.00	0.00	C
ATOM	3382	CG	LEU	359	44.895	100.097	53.886	1.00	0.00	C
ATOM	3383	CD1	LEU	359	45.237	99.844	55.362	1.00	0.00	C
ATOM	3384	CD2	LEU	359	43.676	99.284	53.424	1.00	0.00	C
ATOM	3385	C	LEU	359	45.500	103.866	53.604	1.00	0.00	C
ATOM	3386	O	LEU	359	44.918	104.541	54.451	1.00	0.00	O
ATOM	3387	N	GLU	360	45.807	104.347	52.387	1.00	0.00	N
ATOM	3388	HN	GLU	360	46.328	103.784	51.715	1.00	0.00	H
ATOM	3389	CA	GLU	360	45.381	105.669	52.066	1.00	0.00	C
ATOM	3390	CB	GLU	360	46.530	106.689	52.128	1.00	0.00	C
ATOM	3391	CG	GLU	360	47.186	106.795	53.509	1.00	0.00	C
ATOM	3392	CD	GLU	360	46.218	107.477	54.466	1.00	0.00	C
ATOM	3393	OE1	GLU	360	45.983	108.703	54.297	1.00	0.00	O
ATOM	3394	OE2	GLU	360	45.702	106.779	55.380	1.00	0.00	O
ATOM	3395	C	GLU	360	44.894	105.647	50.654	1.00	0.00	C
ATOM	3396	O	GLU	360	45.692	105.599	49.721	1.00	0.00	O
ATOM	3397	N	PHE	361	43.564	105.683	50.448	1.00	0.00	N
ATOM	3398	HN	PHE	361	42.913	105.645	51.232	1.00	0.00	H
ATOM	3399	CA	PHE	361	43.085	105.776	49.100	1.00	0.00	C
ATOM	3400	CB	PHE	361	41.735	105.073	48.858	1.00	0.00	C
ATOM	3401	CG	PHE	361	41.989	103.621	48.627	1.00	0.00	C

ATOM	3402	CD1	PHE	361	42.265	102.766	49.669	1.00	0.00	C
ATOM	3403	CD2	PHE	361	41.970	103.121	47.344	1.00	0.00	C
ATOM	3404	CE1	PHE	361	42.502	101.431	49.431	1.00	0.00	C
ATOM	3405	CE2	PHE	361	42.204	101.789	47.099	1.00	0.00	C
ATOM	3406	CZ	PHE	361	42.470	100.940	48.147	1.00	0.00	C
ATOM	3407	C	PHE	361	42.895	107.235	48.868	1.00	0.00	C
ATOM	3408	O	PHE	361	41.981	107.847	49.420	1.00	0.00	O
ATOM	3409	N	ARG	362	43.760	107.845	48.036	1.00	0.00	N
ATOM	3410	HN	ARG	362	44.465	107.319	47.519	1.00	0.00	H
ATOM	3411	CA	ARG	362	43.645	109.264	47.911	1.00	0.00	C
ATOM	3412	CB	ARG	362	44.956	109.996	48.246	1.00	0.00	C
ATOM	3413	CG	ARG	362	45.469	109.696	49.657	1.00	0.00	C
ATOM	3414	CD	ARG	362	45.237	110.813	50.676	1.00	0.00	C
ATOM	3415	NE	ARG	362	46.162	111.929	50.332	1.00	0.00	N
ATOM	3416	HE	ARG	362	45.812	112.744	49.828	1.00	0.00	H
ATOM	3417	CZ	ARG	362	47.478	111.861	50.691	1.00	0.00	C
ATOM	3418	NH1	ARG	362	47.969	110.737	51.291	1.00	0.00	N
ATOM	3419	1HH1	ARG	362	47.350	109.947	51.476	1.00	0.00	H
ATOM	3420	2HH1	ARG	362	48.952	110.686	51.559	1.00	0.00	H
ATOM	3421	NH2	ARG	362	48.306	112.918	50.443	1.00	0.00	N
ATOM	3422	1HH2	ARG	362	47.939	113.758	49.995	1.00	0.00	H
ATOM	3423	2HH2	ARG	362	49.289	112.867	50.711	1.00	0.00	H
ATOM	3424	C	ARG	362	43.293	109.632	46.509	1.00	0.00	C
ATOM	3425	O	ARG	362	44.085	109.418	45.592	1.00	0.00	O
ATOM	3426	N	ASN	363	42.079	110.203	46.341	1.00	0.00	N
ATOM	3427	HN	ASN	363	41.469	110.247	47.157	1.00	0.00	H
ATOM	3428	CA	ASN	363	41.573	110.754	45.113	1.00	0.00	C
ATOM	3429	CB	ASN	363	42.102	112.172	44.832	1.00	0.00	C
ATOM	3430	CG	ASN	363	41.317	112.764	43.669	1.00	0.00	C
ATOM	3431	OD1	ASN	363	40.285	112.233	43.261	1.00	0.00	O
ATOM	3432	ND2	ASN	363	41.823	113.898	43.115	1.00	0.00	N
ATOM	3433	1HD2	ASN	363	41.297	114.295	42.336	1.00	0.00	H
ATOM	3434	2HD2	ASN	363	42.679	114.338	43.453	1.00	0.00	H
ATOM	3435	C	ASN	363	41.945	109.880	43.962	1.00	0.00	C
ATOM	3436	O	ASN	363	42.729	110.292	43.108	1.00	0.00	O
ATOM	3437	N	VAL	364	41.411	108.644	43.908	1.00	0.00	N
ATOM	3438	HN	VAL	364	40.738	108.333	44.609	1.00	0.00	H
ATOM	3439	CA	VAL	364	41.814	107.780	42.840	1.00	0.00	C
ATOM	3440	CB	VAL	364	42.266	106.428	43.311	1.00	0.00	C
ATOM	3441	CG1	VAL	364	42.617	105.572	42.083	1.00	0.00	C
ATOM	3442	CG2	VAL	364	43.432	106.618	44.295	1.00	0.00	C
ATOM	3443	C	VAL	364	40.684	107.557	41.897	1.00	0.00	C
ATOM	3444	O	VAL	364	39.593	107.129	42.275	1.00	0.00	O
ATOM	3445	N	HIS	365	40.954	107.839	40.612	1.00	0.00	N
ATOM	3446	HN	HIS	365	41.866	108.231	40.376	1.00	0.00	H
ATOM	3447	CA	HIS	365	40.014	107.611	39.567	1.00	0.00	C
ATOM	3448	ND1	HIS	365	40.551	110.740	39.961	1.00	0.00	N
ATOM	3449	HD1	HIS	365	41.444	110.400	40.317	1.00	0.00	H
ATOM	3450	CG	HIS	365	39.708	110.082	39.093	1.00	0.00	C
ATOM	3451	CB	HIS	365	40.004	108.731	38.514	1.00	0.00	C
ATOM	3452	NE2	HIS	365	38.807	112.079	39.632	1.00	0.00	N
ATOM	3453	HE2	HIS	365	38.173	112.877	39.680	1.00	0.00	H
ATOM	3454	CD2	HIS	365	38.647	110.913	38.903	1.00	0.00	C
ATOM	3455	CE1	HIS	365	39.964	111.928	40.251	1.00	0.00	C
ATOM	3456	C	HIS	365	40.561	106.401	38.893	1.00	0.00	C
ATOM	3457	O	HIS	365	41.775	106.208	38.850	1.00	0.00	O
ATOM	3458	N	PHE	366	39.681	105.519	38.400	1.00	0.00	N
ATOM	3459	HN	PHE	366	38.678	105.685	38.483	1.00	0.00	H
ATOM	3460	CA	PHE	366	40.170	104.348	37.760	1.00	0.00	C
ATOM	3461	CB	PHE	366	40.593	103.271	38.774	1.00	0.00	C
ATOM	3462	CG	PHE	366	40.750	101.979	38.058	1.00	0.00	C
ATOM	3463	CD1	PHE	366	41.860	101.710	37.291	1.00	0.00	C
ATOM	3464	CD2	PHE	366	39.769	101.021	38.176	1.00	0.00	C
ATOM	3465	CE1	PHE	366	41.979	100.504	36.642	1.00	0.00	C
ATOM	3466	CE2	PHE	366	39.883	99.815	37.531	1.00	0.00	C
ATOM	3467	CZ	PHE	366	40.990	99.556	36.761	1.00	0.00	C
ATOM	3468	C	PHE	366	39.082	103.799	36.927	1.00	0.00	C
ATOM	3469	O	PHE	366	37.922	103.735	37.331	1.00	0.00	O
ATOM	3470	N	SER	367	39.451	103.380	35.715	1.00	0.00	N
ATOM	3471	HN	SER	367	40.415	103.495	35.403	1.00	0.00	H
ATOM	3472	CA	SER	367	38.494	102.774	34.864	1.00	0.00	C
ATOM	3473	CB	SER	367	38.271	103.502	33.529	1.00	0.00	C
ATOM	3474	OG	SER	367	39.423	103.376	32.709	1.00	0.00	O
ATOM	3475	HG	SER	367	39.285	103.826	31.884	1.00	0.00	H

ATOM	3476	C	SER	367	39.099	101.465	34.542	1.00	0.00	C
ATOM	3477	O	SER	367	40.318	101.296	34.523	1.00	0.00	O
ATOM	3478	N	TYR	368	38.235	100.482	34.310	1.00	0.00	N
ATOM	3479	HN	TYR	368	37.231	100.647	34.385	1.00	0.00	H
ATOM	3480	CA	TYR	368	38.729	99.200	33.956	1.00	0.00	C
ATOM	3481	CB	TYR	368	37.617	98.160	33.692	1.00	0.00	C
ATOM	3482	CG	TYR	368	37.129	97.726	35.031	1.00	0.00	C
ATOM	3483	CD1	TYR	368	37.865	96.837	35.781	1.00	0.00	C
ATOM	3484	CD2	TYR	368	35.963	98.221	35.555	1.00	0.00	C
ATOM	3485	CE1	TYR	368	37.432	96.436	37.024	1.00	0.00	C
ATOM	3486	CE2	TYR	368	35.520	97.827	36.795	1.00	0.00	C
ATOM	3487	CZ	TYR	368	36.255	96.931	37.532	1.00	0.00	C
ATOM	3488	OH	TYR	368	35.802	96.525	38.805	1.00	0.00	O
ATOM	3489	HH	TYR	368	36.310	95.905	39.315	1.00	0.00	H
ATOM	3490	C	TYR	368	39.652	99.306	32.764	1.00	0.00	C
ATOM	3491	O	TYR	368	39.599	100.269	31.999	1.00	0.00	O
ATOM	3492	N	PRO	369	40.548	98.357	32.615	1.00	0.00	N
ATOM	3493	CA	PRO	369	41.525	98.393	31.559	1.00	0.00	C
ATOM	3494	CD	PRO	369	40.310	96.995	33.065	1.00	0.00	C
ATOM	3495	CB	PRO	369	42.197	97.028	31.569	1.00	0.00	C
ATOM	3496	CG	PRO	369	41.078	96.113	32.081	1.00	0.00	C
ATOM	3497	C	PRO	369	40.923	98.654	30.216	1.00	0.00	C
ATOM	3498	O	PRO	369	41.651	99.138	29.352	1.00	0.00	O
ATOM	3499	N	SER	370	39.656	98.283	29.953	1.00	0.00	N
ATOM	3500	HN	SER	370	39.089	97.758	30.619	1.00	0.00	H
ATOM	3501	CA	SER	370	39.164	98.681	28.667	1.00	0.00	C
ATOM	3502	CB	SER	370	37.766	98.141	28.335	1.00	0.00	C
ATOM	3503	OG	SER	370	37.791	96.722	28.305	1.00	0.00	O
ATOM	3504	HG	SER	370	36.926	96.388	28.100	1.00	0.00	H
ATOM	3505	C	SER	370	39.097	100.167	28.758	1.00	0.00	C
ATOM	3506	O	SER	370	38.403	100.720	29.601	1.00	0.00	O
ATOM	3507	N	ARG	371	39.745	100.875	27.831	1.00	0.00	N
ATOM	3508	HN	ARG	371	40.105	100.421	26.992	1.00	0.00	H
ATOM	3509	CA	ARG	371	39.929	102.285	28.031	1.00	0.00	C
ATOM	3510	CB	ARG	371	40.828	102.974	26.983	1.00	0.00	C
ATOM	3511	CG	ARG	371	40.320	103.002	25.543	1.00	0.00	C
ATOM	3512	CD	ARG	371	41.365	103.578	24.583	1.00	0.00	C
ATOM	3513	NE	ARG	371	40.675	103.966	23.322	1.00	0.00	N
ATOM	3514	HE	ARG	371	40.561	103.288	22.568	1.00	0.00	H
ATOM	3515	CZ	ARG	371	40.196	105.237	23.183	1.00	0.00	C
ATOM	3516	NH1	ARG	371	40.365	106.143	24.190	1.00	0.00	N
ATOM	3517	1HH1	ARG	371	40.007	107.093	24.086	1.00	0.00	H
ATOM	3518	2HH1	ARG	371	40.841	105.867	25.049	1.00	0.00	H
ATOM	3519	NH2	ARG	371	39.560	105.606	22.034	1.00	0.00	N
ATOM	3520	1HH2	ARG	371	39.202	106.556	21.930	1.00	0.00	H
ATOM	3521	2HH2	ARG	371	39.434	104.929	21.282	1.00	0.00	H
ATOM	3522	C	ARG	371	38.641	103.065	28.155	1.00	0.00	C
ATOM	3523	O	ARG	371	38.637	104.129	28.771	1.00	0.00	O
ATOM	3524	N	LYS	372	37.545	102.620	27.515	1.00	0.00	N
ATOM	3525	HN	LYS	372	37.604	101.721	27.036	1.00	0.00	H
ATOM	3526	CA	LYS	372	36.286	103.334	27.462	1.00	0.00	C
ATOM	3527	CB	LYS	372	35.373	102.766	26.368	1.00	0.00	C
ATOM	3528	CG	LYS	372	35.975	102.908	24.973	1.00	0.00	C
ATOM	3529	CD	LYS	372	37.226	102.054	24.762	1.00	0.00	C
ATOM	3530	CE	LYS	372	36.920	100.603	24.387	1.00	0.00	C
ATOM	3531	NZ	LYS	372	38.182	99.855	24.200	1.00	0.00	N
ATOM	3532	HZ1	LYS	372	37.978	98.887	23.950	1.00	0.00	H
ATOM	3533	HZ2	LYS	372	38.790	99.920	25.016	1.00	0.00	H
ATOM	3534	HZ3	LYS	372	38.797	100.304	23.521	1.00	0.00	H
ATOM	3535	C	LYS	372	35.440	103.412	28.712	1.00	0.00	C
ATOM	3536	O	LYS	372	34.939	104.487	29.039	1.00	0.00	O
ATOM	3537	N	GLU	373	35.261	102.307	29.463	1.00	0.00	N
ATOM	3538	HN	GLU	373	35.845	101.487	29.300	1.00	0.00	H
ATOM	3539	CA	GLU	373	34.249	102.270	30.498	1.00	0.00	C
ATOM	3540	CB	GLU	373	34.196	100.958	31.298	1.00	0.00	C
ATOM	3541	CG	GLU	373	33.755	99.767	30.454	1.00	0.00	C
ATOM	3542	CD	GLU	373	34.925	99.465	29.541	1.00	0.00	C
ATOM	3543	OE1	GLU	373	36.054	99.357	30.086	1.00	0.00	O
ATOM	3544	OE2	GLU	373	34.719	99.359	28.302	1.00	0.00	O
ATOM	3545	C	GLU	373	34.402	103.371	31.492	1.00	0.00	C
ATOM	3546	O	GLU	373	35.459	103.985	31.626	1.00	0.00	O
ATOM	3547	N	VAL	374	33.288	103.648	32.209	1.00	0.00	N
ATOM	3548	HN	VAL	374	32.441	103.105	32.041	1.00	0.00	H
ATOM	3549	CA	VAL	374	33.267	104.683	33.197	1.00	0.00	C

ATOM	3550	CB	VAL	374	31.994	104.782	33.987	1.00	0.00	C
ATOM	3551	CG1	VAL	374	30.851	105.120	33.034	1.00	0.00	C
ATOM	3552	CG2	VAL	374	31.782	103.477	34.771	1.00	0.00	C
ATOM	3553	C	VAL	374	34.309	104.367	34.195	1.00	0.00	C
ATOM	3554	O	VAL	374	34.514	103.209	34.550	1.00	0.00	O
ATOM	3555	N	LYS	375	35.021	105.397	34.676	1.00	0.00	N
ATOM	3556	HN	LYS	375	34.885	106.356	34.357	1.00	0.00	H
ATOM	3557	CA	LYS	375	35.980	105.046	35.665	1.00	0.00	C
ATOM	3558	CB	LYS	375	36.921	106.193	36.076	1.00	0.00	C
ATOM	3559	CG	LYS	375	36.200	107.454	36.551	1.00	0.00	C
ATOM	3560	CD	LYS	375	35.343	108.099	35.462	1.00	0.00	C
ATOM	3561	CE	LYS	375	34.646	109.384	35.907	1.00	0.00	C
ATOM	3562	NZ	LYS	375	33.996	110.028	34.745	1.00	0.00	N
ATOM	3563	HZ1	LYS	375	33.531	110.886	35.042	1.00	0.00	H
ATOM	3564	HZ2	LYS	375	33.360	109.394	34.261	1.00	0.00	H
ATOM	3565	HZ3	LYS	375	34.651	110.192	33.981	1.00	0.00	H
ATOM	3566	C	LYS	375	35.188	104.630	36.849	1.00	0.00	C
ATOM	3567	O	LYS	375	34.592	105.458	37.536	1.00	0.00	O
ATOM	3568	N	ILE	376	35.225	103.318	37.141	1.00	0.00	N
ATOM	3569	HN	ILE	376	35.811	102.704	36.576	1.00	0.00	H
ATOM	3570	CA	ILE	376	34.473	102.757	38.213	1.00	0.00	C
ATOM	3571	CB	ILE	376	34.838	101.326	38.410	1.00	0.00	C
ATOM	3572	CG1	ILE	376	34.191	100.477	37.306	1.00	0.00	C
ATOM	3573	CG2	ILE	376	34.518	100.937	39.857	1.00	0.00	C
ATOM	3574	CD1	ILE	376	34.680	100.838	35.906	1.00	0.00	C
ATOM	3575	C	ILE	376	34.870	103.511	39.431	1.00	0.00	C
ATOM	3576	O	ILE	376	34.012	103.968	40.184	1.00	0.00	O
ATOM	3577	N	LEU	377	36.185	103.689	39.650	1.00	0.00	N
ATOM	3578	HN	LEU	377	36.892	103.226	39.079	1.00	0.00	H
ATOM	3579	CA	LEU	377	36.540	104.561	40.725	1.00	0.00	C
ATOM	3580	CB	LEU	377	37.942	104.342	41.315	1.00	0.00	C
ATOM	3581	CG	LEU	377	38.114	102.988	42.028	1.00	0.00	C
ATOM	3582	CD1	LEU	377	39.420	102.961	42.833	1.00	0.00	C
ATOM	3583	CD2	LEU	377	36.883	102.622	42.873	1.00	0.00	C
ATOM	3584	C	LEU	377	36.510	105.919	40.099	1.00	0.00	C
ATOM	3585	O	LEU	377	37.442	106.350	39.431	1.00	0.00	O
ATOM	3586	N	LYS	378	35.393	106.614	40.326	1.00	0.00	N
ATOM	3587	HN	LYS	378	34.732	106.156	40.954	1.00	0.00	H
ATOM	3588	CA	LYS	378	34.960	107.892	39.841	1.00	0.00	C
ATOM	3589	CB	LYS	378	33.468	108.123	40.112	1.00	0.00	C
ATOM	3590	CG	LYS	378	33.098	107.877	41.573	1.00	0.00	C
ATOM	3591	CD	LYS	378	31.703	108.367	41.950	1.00	0.00	C
ATOM	3592	CE	LYS	378	31.300	107.986	43.374	1.00	0.00	C
ATOM	3593	NZ	LYS	378	29.959	108.526	43.676	1.00	0.00	N
ATOM	3594	HZ1	LYS	378	29.690	108.272	44.626	1.00	0.00	H
ATOM	3595	HZ2	LYS	378	29.264	108.233	42.989	1.00	0.00	H
ATOM	3596	HZ3	LYS	378	29.907	109.532	43.519	1.00	0.00	H
ATOM	3597	C	LYS	378	35.733	109.018	40.453	1.00	0.00	C
ATOM	3598	O	LYS	378	35.353	110.177	40.280	1.00	0.00	O
ATOM	3599	N	GLY	379	36.797	108.737	41.229	1.00	0.00	N
ATOM	3600	HN	GLY	379	37.164	107.788	41.296	1.00	0.00	H
ATOM	3601	CA	GLY	379	37.396	109.816	41.958	1.00	0.00	C
ATOM	3602	C	GLY	379	36.981	109.585	43.366	1.00	0.00	C
ATOM	3603	O	GLY	379	36.037	110.184	43.881	1.00	0.00	O
ATOM	3604	N	LEU	380	37.665	108.601	43.982	1.00	0.00	N
ATOM	3605	HN	LEU	380	38.446	108.165	43.492	1.00	0.00	H
ATOM	3606	CA	LEU	380	37.337	108.145	45.296	1.00	0.00	C
ATOM	3607	CB	LEU	380	37.105	106.617	45.306	1.00	0.00	C
ATOM	3608	CG	LEU	380	36.957	105.944	46.683	1.00	0.00	C
ATOM	3609	CD1	LEU	380	38.322	105.748	47.361	1.00	0.00	C
ATOM	3610	CD2	LEU	380	35.950	106.692	47.570	1.00	0.00	C
ATOM	3611	C	LEU	380	38.412	108.485	46.269	1.00	0.00	C
ATOM	3612	O	LEU	380	39.603	108.352	45.991	1.00	0.00	O
ATOM	3613	N	ASN	381	37.975	108.952	47.455	1.00	0.00	N
ATOM	3614	HN	ASN	381	36.972	109.082	47.585	1.00	0.00	H
ATOM	3615	CA	ASN	381	38.847	109.274	48.538	1.00	0.00	C
ATOM	3616	CB	ASN	381	38.749	110.738	49.004	1.00	0.00	C
ATOM	3617	CG	ASN	381	39.445	111.629	47.986	1.00	0.00	C
ATOM	3618	OD1	ASN	381	40.672	111.713	47.955	1.00	0.00	O
ATOM	3619	ND2	ASN	381	38.642	112.315	47.130	1.00	0.00	N
ATOM	3620	1HD2	ASN	381	39.109	112.912	46.447	1.00	0.00	H
ATOM	3621	2HD2	ASN	381	37.625	112.245	47.156	1.00	0.00	H
ATOM	3622	C	ASN	381	38.417	108.435	49.691	1.00	0.00	C
ATOM	3623	O	ASN	381	37.224	108.303	49.978	1.00	0.00	O

ATOM	3624	N	LEU	382	39.399	107.799	50.351	1.00	0.00	N
ATOM	3625	HN	LEU	382	40.364	107.865	50.027	1.00	0.00	H
ATOM	3626	CA	LEU	382	39.080	107.033	51.506	1.00	0.00	C
ATOM	3627	CB	LEU	382	38.567	105.612	51.217	1.00	0.00	C
ATOM	3628	CG	LEU	382	38.189	104.846	52.502	1.00	0.00	C
ATOM	3629	CD1	LEU	382	36.844	105.329	53.073	1.00	0.00	C
ATOM	3630	CD2	LEU	382	38.275	103.326	52.316	1.00	0.00	C
ATOM	3631	C	LEU	382	40.356	106.835	52.237	1.00	0.00	C
ATOM	3632	O	LEU	382	41.435	106.741	51.649	1.00	0.00	O
ATOM	3633	N	LYS	383	40.256	106.774	53.567	1.00	0.00	N
ATOM	3634	HN	LYS	383	39.354	106.898	54.026	1.00	0.00	H
ATOM	3635	CA	LYS	383	41.430	106.533	54.332	1.00	0.00	C
ATOM	3636	CB	LYS	383	41.897	107.766	55.116	1.00	0.00	C
ATOM	3637	CG	LYS	383	40.920	108.139	56.230	1.00	0.00	C
ATOM	3638	CD	LYS	383	39.506	108.438	55.730	1.00	0.00	C
ATOM	3639	CE	LYS	383	38.473	108.566	56.849	1.00	0.00	C
ATOM	3640	NZ	LYS	383	37.163	108.954	56.282	1.00	0.00	N
ATOM	3641	HZ1	LYS	383	36.474	109.039	57.029	1.00	0.00	H
ATOM	3642	HZ2	LYS	383	36.857	108.313	55.550	1.00	0.00	H
ATOM	3643	HZ3	LYS	383	37.225	109.802	55.719	1.00	0.00	H
ATOM	3644	C	LYS	383	41.013	105.535	55.349	1.00	0.00	C
ATOM	3645	O	LYS	383	39.831	105.468	55.692	1.00	0.00	O
ATOM	3646	N	VAL	384	41.956	104.691	55.811	1.00	0.00	N
ATOM	3647	HN	VAL	384	42.895	104.675	55.413	1.00	0.00	H
ATOM	3648	CA	VAL	384	41.588	103.817	56.883	1.00	0.00	C
ATOM	3649	CB	VAL	384	41.233	102.409	56.474	1.00	0.00	C
ATOM	3650	CG1	VAL	384	40.012	102.453	55.550	1.00	0.00	C
ATOM	3651	CG2	VAL	384	42.447	101.722	55.842	1.00	0.00	C
ATOM	3652	C	VAL	384	42.753	103.737	57.827	1.00	0.00	C
ATOM	3653	O	VAL	384	43.881	103.417	57.446	1.00	0.00	O
ATOM	3654	N	GLN	385	42.464	103.995	59.114	1.00	0.00	N
ATOM	3655	HN	GLN	385	41.491	104.198	59.344	1.00	0.00	H
ATOM	3656	CA	GLN	385	43.412	104.008	60.189	1.00	0.00	C
ATOM	3657	CB	GLN	385	42.760	104.314	61.550	1.00	0.00	C
ATOM	3658	CG	GLN	385	43.728	104.344	62.736	1.00	0.00	C
ATOM	3659	CD	GLN	385	44.245	105.764	62.905	1.00	0.00	C
ATOM	3660	OE1	GLN	385	43.556	106.732	62.587	1.00	0.00	O
ATOM	3661	NE2	GLN	385	45.494	105.897	63.427	1.00	0.00	N
ATOM	3662	1HE2	GLN	385	45.841	106.850	63.540	1.00	0.00	H
ATOM	3663	2HE2	GLN	385	46.065	105.094	63.691	1.00	0.00	H
ATOM	3664	C	GLN	385	43.999	102.644	60.285	1.00	0.00	C
ATOM	3665	O	GLN	385	43.508	101.740	59.615	1.00	0.00	O
ATOM	3666	N	SER	386	45.090	102.496	61.082	1.00	0.00	N
ATOM	3667	HN	SER	386	45.421	103.310	61.600	1.00	0.00	H
ATOM	3668	CA	SER	386	45.807	101.253	61.237	1.00	0.00	C
ATOM	3669	CB	SER	386	46.992	101.368	62.217	1.00	0.00	C
ATOM	3670	OG	SER	386	46.548	101.793	63.497	1.00	0.00	O
ATOM	3671	HG	SER	386	47.278	101.864	64.101	1.00	0.00	H
ATOM	3672	C	SER	386	44.924	100.118	61.673	1.00	0.00	C
ATOM	3673	O	SER	386	44.045	99.704	60.943	1.00	0.00	O
ATOM	3674	N	GLY	387	44.982	99.710	62.945	1.00	0.00	N
ATOM	3675	HN	GLY	387	45.486	100.309	63.599	1.00	0.00	H
ATOM	3676	CA	GLY	387	44.399	98.500	63.484	1.00	0.00	C
ATOM	3677	C	GLY	387	42.927	98.338	63.169	1.00	0.00	C
ATOM	3678	O	GLY	387	42.361	97.272	63.403	1.00	0.00	O
ATOM	3679	N	GLN	388	42.237	99.408	62.749	1.00	0.00	N
ATOM	3680	HN	GLN	388	42.735	100.294	62.663	1.00	0.00	H
ATOM	3681	CA	GLN	388	40.842	99.387	62.413	1.00	0.00	C
ATOM	3682	CB	GLN	388	40.347	100.704	61.802	1.00	0.00	C
ATOM	3683	CG	GLN	388	40.448	101.893	62.751	1.00	0.00	C
ATOM	3684	CD	GLN	388	39.916	103.104	62.005	1.00	0.00	C
ATOM	3685	OE1	GLN	388	39.864	103.121	60.776	1.00	0.00	O
ATOM	3686	NE2	GLN	388	39.499	104.147	62.770	1.00	0.00	N
ATOM	3687	1HE2	GLN	388	39.142	104.960	62.269	1.00	0.00	H
ATOM	3688	2HE2	GLN	388	39.542	104.133	63.789	1.00	0.00	H
ATOM	3689	C	GLN	388	40.508	98.324	61.413	1.00	0.00	C
ATOM	3690	O	GLN	388	41.348	97.531	60.983	1.00	0.00	O
ATOM	3691	N	THR	389	39.191	98.234	61.121	1.00	0.00	N
ATOM	3692	HN	THR	389	38.540	98.836	61.625	1.00	0.00	H
ATOM	3693	CA	THR	389	38.666	97.336	60.140	1.00	0.00	C
ATOM	3694	CB	THR	389	38.086	96.102	60.753	1.00	0.00	C
ATOM	3695	OG1	THR	389	39.061	95.431	61.533	1.00	0.00	O
ATOM	3696	HG1	THR	389	38.692	94.647	61.923	1.00	0.00	H
ATOM	3697	CG2	THR	389	37.625	95.187	59.622	1.00	0.00	C

ATOM	3698	C	THR	389	37.527	98.078	59.497	1.00	0.00	C
ATOM	3699	O	THR	389	36.638	98.563	60.197	1.00	0.00	O
ATOM	3700	N	VAL	390	37.496	98.169	58.148	1.00	0.00	N
ATOM	3701	HN	VAL	390	38.200	97.695	57.583	1.00	0.00	H
ATOM	3702	CA	VAL	390	36.457	98.944	57.519	1.00	0.00	C
ATOM	3703	CB	VAL	390	36.956	99.986	56.559	1.00	0.00	C
ATOM	3704	CG1	VAL	390	37.943	100.907	57.284	1.00	0.00	C
ATOM	3705	CG2	VAL	390	37.524	99.292	55.314	1.00	0.00	C
ATOM	3706	C	VAL	390	35.609	98.041	56.677	1.00	0.00	C
ATOM	3707	O	VAL	390	36.095	97.079	56.082	1.00	0.00	O
ATOM	3708	N	ALA	391	34.299	98.356	56.584	1.00	0.00	N
ATOM	3709	HN	ALA	391	33.938	99.182	57.061	1.00	0.00	H
ATOM	3710	CA	ALA	391	33.413	97.528	55.813	1.00	0.00	C
ATOM	3711	CB	ALA	391	32.134	97.119	56.566	1.00	0.00	C
ATOM	3712	C	ALA	391	32.977	98.257	54.577	1.00	0.00	C
ATOM	3713	O	ALA	391	32.574	99.417	54.614	1.00	0.00	O
ATOM	3714	N	LEU	392	33.048	97.577	53.421	1.00	0.00	N
ATOM	3715	HN	LEU	392	33.421	96.628	53.405	1.00	0.00	H
ATOM	3716	CA	LEU	392	32.595	98.196	52.209	1.00	0.00	C
ATOM	3717	CB	LEU	392	33.627	98.147	51.070	1.00	0.00	C
ATOM	3718	CG	LEU	392	34.771	99.158	51.276	1.00	0.00	C
ATOM	3719	CD1	LEU	392	35.420	99.000	52.660	1.00	0.00	C
ATOM	3720	CD2	LEU	392	35.792	99.075	50.131	1.00	0.00	C
ATOM	3721	C	LEU	392	31.341	97.511	51.786	1.00	0.00	C
ATOM	3722	O	LEU	392	31.224	96.286	51.837	1.00	0.00	O
ATOM	3723	N	VAL	393	30.335	98.301	51.380	1.00	0.00	N
ATOM	3724	HN	VAL	393	30.451	99.313	51.319	1.00	0.00	H
ATOM	3725	CA	VAL	393	29.095	97.678	51.035	1.00	0.00	C
ATOM	3726	CB	VAL	393	28.013	98.103	51.985	1.00	0.00	C
ATOM	3727	CG1	VAL	393	26.706	97.425	51.591	1.00	0.00	C
ATOM	3728	CG2	VAL	393	28.455	97.772	53.420	1.00	0.00	C
ATOM	3729	C	VAL	393	28.708	98.069	49.634	1.00	0.00	C
ATOM	3730	O	VAL	393	28.451	99.238	49.372	1.00	0.00	O
ATOM	3731	N	GLY	394	28.614	97.091	48.702	1.00	0.00	N
ATOM	3732	HN	GLY	394	28.786	96.126	48.983	1.00	0.00	H
ATOM	3733	CA	GLY	394	28.278	97.367	47.322	1.00	0.00	C
ATOM	3734	C	GLY	394	27.537	96.175	46.784	1.00	0.00	C
ATOM	3735	O	GLY	394	27.344	95.195	47.504	1.00	0.00	O
ATOM	3736	N	ASN	395	27.079	96.231	45.504	1.00	0.00	N
ATOM	3737	HN	ASN	395	27.270	97.050	44.926	1.00	0.00	H
ATOM	3738	CA	ASN	395	26.322	95.126	44.969	1.00	0.00	C
ATOM	3739	CB	ASN	395	24.830	95.183	45.347	1.00	0.00	C
ATOM	3740	CG	ASN	395	24.661	94.656	46.768	1.00	0.00	C
ATOM	3741	OD1	ASN	395	25.023	93.522	47.074	1.00	0.00	O
ATOM	3742	ND2	ASN	395	24.097	95.497	47.673	1.00	0.00	N
ATOM	3743	1HD2	ASN	395	23.984	95.145	48.623	1.00	0.00	H
ATOM	3744	2HD2	ASN	395	23.797	96.438	47.419	1.00	0.00	H
ATOM	3745	C	ASN	395	26.374	95.053	43.470	1.00	0.00	C
ATOM	3746	O	ASN	395	26.647	93.990	42.916	1.00	0.00	O
ATOM	3747	N	SER	396	26.128	96.177	42.759	1.00	0.00	N
ATOM	3748	HN	SER	396	26.004	97.056	43.261	1.00	0.00	H
ATOM	3749	CA	SER	396	26.034	96.184	41.318	1.00	0.00	C
ATOM	3750	CB	SER	396	25.578	97.528	40.736	1.00	0.00	C
ATOM	3751	OG	SER	396	24.248	97.802	41.141	1.00	0.00	O
ATOM	3752	HG	SER	396	23.966	98.634	40.781	1.00	0.00	H
ATOM	3753	C	SER	396	27.352	95.830	40.720	1.00	0.00	C
ATOM	3754	O	SER	396	27.506	95.830	39.501	1.00	0.00	O
ATOM	3755	N	GLY	397	28.361	95.591	41.567	1.00	0.00	N
ATOM	3756	HN	GLY	397	28.238	95.783	42.561	1.00	0.00	H
ATOM	3757	CA	GLY	397	29.605	95.072	41.101	1.00	0.00	C
ATOM	3758	C	GLY	397	30.436	96.167	40.536	1.00	0.00	C
ATOM	3759	O	GLY	397	30.064	97.331	40.520	1.00	0.00	O
ATOM	3760	N	CYS	398	31.592	95.803	39.981	1.00	0.00	N
ATOM	3761	HN	CYS	398	31.867	94.821	39.959	1.00	0.00	H
ATOM	3762	CA	CYS	398	32.439	96.799	39.419	1.00	0.00	C
ATOM	3763	CB	CYS	398	31.856	97.437	38.145	1.00	0.00	C
ATOM	3764	SG	CYS	398	31.719	96.256	36.770	1.00	0.00	S
ATOM	3765	C	CYS	398	32.774	97.907	40.369	1.00	0.00	C
ATOM	3766	O	CYS	398	32.537	99.075	40.061	1.00	0.00	O
ATOM	3767	N	GLY	399	33.426	97.585	41.509	1.00	0.00	N
ATOM	3768	HN	GLY	399	33.584	96.613	41.774	1.00	0.00	H
ATOM	3769	CA	GLY	399	33.887	98.670	42.333	1.00	0.00	C
ATOM	3770	C	GLY	399	34.401	98.228	43.676	1.00	0.00	C
ATOM	3771	O	GLY	399	35.609	98.304	43.909	1.00	0.00	O

ATOM	3772	N	LYS	400	33.553	97.697	44.572	1.00	0.00	N
ATOM	3773	HN	LYS	400	32.589	97.490	44.311	1.00	0.00	H
ATOM	3774	CA	LYS	400	34.024	97.422	45.910	1.00	0.00	C
ATOM	3775	CB	LYS	400	32.976	96.730	46.794	1.00	0.00	C
ATOM	3776	CG	LYS	400	31.659	97.493	46.903	1.00	0.00	C
ATOM	3777	CD	LYS	400	30.861	97.446	45.603	1.00	0.00	C
ATOM	3778	CE	LYS	400	30.557	96.017	45.156	1.00	0.00	C
ATOM	3779	NZ	LYS	400	29.928	96.036	43.823	1.00	0.00	N
ATOM	3780	HZ1	LYS	400	29.725	95.082	43.525	1.00	0.00	H
ATOM	3781	HZ2	LYS	400	30.492	96.540	43.139	1.00	0.00	H
ATOM	3782	HZ3	LYS	400	29.100	96.631	43.798	1.00	0.00	H
ATOM	3783	C	LYS	400	35.172	96.478	45.847	1.00	0.00	C
ATOM	3784	O	LYS	400	36.288	96.833	46.221	1.00	0.00	O
ATOM	3785	N	SER	401	34.939	95.317	45.218	1.00	0.00	N
ATOM	3786	HN	SER	401	34.032	95.170	44.776	1.00	0.00	H
ATOM	3787	CA	SER	401	35.912	94.285	45.146	1.00	0.00	C
ATOM	3788	CB	SER	401	35.463	93.107	44.270	1.00	0.00	C
ATOM	3789	OG	SER	401	35.315	93.536	42.924	1.00	0.00	O
ATOM	3790	HG	SER	401	35.037	92.807	42.382	1.00	0.00	H
ATOM	3791	C	SER	401	37.124	94.873	44.512	1.00	0.00	C
ATOM	3792	O	SER	401	38.210	94.486	44.926	1.00	0.00	O
ATOM	3793	N	THR	402	36.962	95.815	43.537	1.00	0.00	N
ATOM	3794	HN	THR	402	36.016	96.134	43.331	1.00	0.00	H
ATOM	3795	CA	THR	402	38.055	96.387	42.779	1.00	0.00	C
ATOM	3796	CB	THR	402	37.666	97.059	41.485	1.00	0.00	C
ATOM	3797	OG1	THR	402	38.805	97.099	40.648	1.00	0.00	O
ATOM	3798	HG1	THR	402	39.096	96.205	40.514	1.00	0.00	H
ATOM	3799	CG2	THR	402	37.197	98.503	41.702	1.00	0.00	C
ATOM	3800	C	THR	402	38.951	97.297	43.567	1.00	0.00	C
ATOM	3801	O	THR	402	40.161	97.293	43.361	1.00	0.00	O
ATOM	3802	N	THR	403	38.421	98.148	44.458	1.00	0.00	N
ATOM	3803	HN	THR	403	37.412	98.247	44.567	1.00	0.00	H
ATOM	3804	CA	THR	403	39.342	98.913	45.251	1.00	0.00	C
ATOM	3805	CB	THR	403	38.668	99.890	46.171	1.00	0.00	C
ATOM	3806	OG1	THR	403	37.768	99.209	47.033	1.00	0.00	O
ATOM	3807	HG1	THR	403	38.229	98.557	47.548	1.00	0.00	H
ATOM	3808	CG2	THR	403	37.923	100.945	45.338	1.00	0.00	C
ATOM	3809	C	THR	403	40.065	97.912	46.099	1.00	0.00	C
ATOM	3810	O	THR	403	41.265	98.018	46.341	1.00	0.00	O
ATOM	3811	N	VAL	404	39.327	96.881	46.551	1.00	0.00	N
ATOM	3812	HN	VAL	404	38.334	96.853	46.319	1.00	0.00	H
ATOM	3813	CA	VAL	404	39.876	95.822	47.344	1.00	0.00	C
ATOM	3814	CB	VAL	404	38.857	94.772	47.678	1.00	0.00	C
ATOM	3815	CG1	VAL	404	39.560	93.616	48.408	1.00	0.00	C
ATOM	3816	CG2	VAL	404	37.726	95.425	48.490	1.00	0.00	C
ATOM	3817	C	VAL	404	40.900	95.201	46.481	1.00	0.00	C
ATOM	3818	O	VAL	404	41.826	94.549	46.965	1.00	0.00	O
ATOM	3819	N	GLN	405	40.663	95.314	45.162	1.00	0.00	N
ATOM	3820	HN	GLN	405	39.829	95.809	44.846	1.00	0.00	H
ATOM	3821	CA	GLN	405	41.546	94.760	44.202	1.00	0.00	C
ATOM	3822	CB	GLN	405	40.984	94.751	42.770	1.00	0.00	C
ATOM	3823	CG	GLN	405	40.076	93.565	42.484	1.00	0.00	C
ATOM	3824	CD	GLN	405	40.986	92.348	42.518	1.00	0.00	C
ATOM	3825	OE1	GLN	405	42.208	92.473	42.570	1.00	0.00	O
ATOM	3826	NE2	GLN	405	40.387	91.131	42.492	1.00	0.00	N
ATOM	3827	1HE2	GLN	405	39.373	91.027	42.449	1.00	0.00	H
ATOM	3828	2HE2	GLN	405	40.998	90.314	42.515	1.00	0.00	H
ATOM	3829	C	GLN	405	42.869	95.451	44.100	1.00	0.00	C
ATOM	3830	O	GLN	405	43.887	94.861	44.438	1.00	0.00	O
ATOM	3831	N	LEU	406	42.875	96.748	43.740	1.00	0.00	N
ATOM	3832	HN	LEU	406	41.976	97.223	43.658	1.00	0.00	H
ATOM	3833	CA	LEU	406	44.061	97.506	43.464	1.00	0.00	C
ATOM	3834	CB	LEU	406	43.755	98.898	42.876	1.00	0.00	C
ATOM	3835	CG	LEU	406	43.056	99.886	43.825	1.00	0.00	C
ATOM	3836	CD1	LEU	406	44.040	100.484	44.843	1.00	0.00	C
ATOM	3837	CD2	LEU	406	42.268	100.944	43.037	1.00	0.00	C
ATOM	3838	C	LEU	406	44.832	97.625	44.723	1.00	0.00	C
ATOM	3839	O	LEU	406	45.991	98.028	44.734	1.00	0.00	O
ATOM	3840	N	MET	407	44.171	97.319	45.840	1.00	0.00	N
ATOM	3841	HN	MET	407	43.189	97.050	45.782	1.00	0.00	H
ATOM	3842	CA	MET	407	44.809	97.360	47.114	1.00	0.00	C
ATOM	3843	CB	MET	407	43.863	96.983	48.265	1.00	0.00	C
ATOM	3844	CG	MET	407	44.521	97.024	49.645	1.00	0.00	C
ATOM	3845	SD	MET	407	44.987	98.687	50.212	1.00	0.00	S

ATOM	3846	CE	MET	407	46.627	98.656	49.433	1.00	0.00	C
ATOM	3847	C	MET	407	45.926	96.351	47.060	1.00	0.00	C
ATOM	3848	O	MET	407	46.768	96.284	47.953	1.00	0.00	O
ATOM	3849	N	GLN	408	45.795	95.373	46.152	1.00	0.00	N
ATOM	3850	HN	GLN	408	44.899	95.314	45.669	1.00	0.00	H
ATOM	3851	CA	GLN	408	46.788	94.400	45.790	1.00	0.00	C
ATOM	3852	CB	GLN	408	46.321	92.927	45.825	1.00	0.00	C
ATOM	3853	CG	GLN	408	45.154	92.504	44.950	1.00	0.00	C
ATOM	3854	CD	GLN	408	44.588	91.239	45.583	1.00	0.00	C
ATOM	3855	OE1	GLN	408	43.800	90.520	44.973	1.00	0.00	O
ATOM	3856	NE2	GLN	408	44.994	90.964	46.852	1.00	0.00	N
ATOM	3857	1HE2	GLN	408	45.648	91.561	47.358	1.00	0.00	H
ATOM	3858	2HE2	GLN	408	44.615	90.117	47.276	1.00	0.00	H
ATOM	3859	C	GLN	408	47.631	94.793	44.603	1.00	0.00	C
ATOM	3860	O	GLN	408	48.422	93.995	44.108	1.00	0.00	O
ATOM	3861	N	ARG	409	47.362	95.967	44.005	1.00	0.00	N
ATOM	3862	HN	ARG	409	46.579	96.518	44.356	1.00	0.00	H
ATOM	3863	CA	ARG	409	48.117	96.487	42.899	1.00	0.00	C
ATOM	3864	CB	ARG	409	49.626	96.341	43.151	1.00	0.00	C
ATOM	3865	CG	ARG	409	50.480	97.451	42.541	1.00	0.00	C
ATOM	3866	CD	ARG	409	51.150	97.143	41.205	1.00	0.00	C
ATOM	3867	NE	ARG	409	52.174	98.213	41.037	1.00	0.00	N
ATOM	3868	HE	ARG	409	52.416	98.798	41.837	1.00	0.00	H
ATOM	3869	CZ	ARG	409	52.796	98.432	39.843	1.00	0.00	C
ATOM	3870	NH1	ARG	409	52.458	97.699	38.744	1.00	0.00	N
ATOM	3871	1HH1	ARG	409	52.923	97.863	37.851	1.00	0.00	H
ATOM	3872	2HH1	ARG	409	51.742	96.976	38.811	1.00	0.00	H
ATOM	3873	NH2	ARG	409	53.754	99.400	39.753	1.00	0.00	N
ATOM	3874	1HH2	ARG	409	54.219	99.564	38.860	1.00	0.00	H
ATOM	3875	2HH2	ARG	409	54.007	99.948	40.575	1.00	0.00	H
ATOM	3876	C	ARG	409	47.740	95.670	41.735	1.00	0.00	C
ATOM	3877	O	ARG	409	48.412	95.664	40.704	1.00	0.00	O
ATOM	3878	N	LEU	410	46.557	95.054	41.874	1.00	0.00	N
ATOM	3879	HN	LEU	410	46.008	95.221	42.717	1.00	0.00	H
ATOM	3880	CA	LEU	410	46.048	94.179	40.885	1.00	0.00	C
ATOM	3881	CB	LEU	410	44.622	93.698	41.199	1.00	0.00	C
ATOM	3882	CG	LEU	410	44.212	92.453	40.391	1.00	0.00	C
ATOM	3883	CD1	LEU	410	44.252	92.696	38.875	1.00	0.00	C
ATOM	3884	CD2	LEU	410	45.045	91.237	40.827	1.00	0.00	C
ATOM	3885	C	LEU	410	46.015	95.001	39.630	1.00	0.00	C
ATOM	3886	O	LEU	410	46.402	94.509	38.580	1.00	0.00	O
ATOM	3887	N	TYR	411	45.606	96.287	39.713	1.00	0.00	N
ATOM	3888	HN	TYR	411	45.266	96.630	40.611	1.00	0.00	H
ATOM	3889	CA	TYR	411	45.627	97.198	38.594	1.00	0.00	C
ATOM	3890	CB	TYR	411	44.232	97.697	38.173	1.00	0.00	C
ATOM	3891	CG	TYR	411	43.404	96.608	37.589	1.00	0.00	C
ATOM	3892	CD1	TYR	411	42.995	95.545	38.359	1.00	0.00	C
ATOM	3893	CD2	TYR	411	42.992	96.684	36.277	1.00	0.00	C
ATOM	3894	CE1	TYR	411	42.217	94.551	37.816	1.00	0.00	C
ATOM	3895	CE2	TYR	411	42.214	95.693	35.728	1.00	0.00	C
ATOM	3896	CZ	TYR	411	41.830	94.624	36.500	1.00	0.00	C
ATOM	3897	OH	TYR	411	41.031	93.602	35.950	1.00	0.00	O
ATOM	3898	HH	TYR	411	40.765	92.863	36.484	1.00	0.00	H
ATOM	3899	C	TYR	411	46.279	98.440	39.078	1.00	0.00	C
ATOM	3900	O	TYR	411	46.051	98.835	40.219	1.00	0.00	O
ATOM	3901	N	ASP	412	47.105	99.096	38.237	1.00	0.00	N
ATOM	3902	HN	ASP	412	47.338	98.723	37.317	1.00	0.00	H
ATOM	3903	CA	ASP	412	47.641	100.346	38.700	1.00	0.00	C
ATOM	3904	CB	ASP	412	48.794	100.922	37.860	1.00	0.00	C
ATOM	3905	CG	ASP	412	50.087	100.226	38.251	1.00	0.00	C
ATOM	3906	OD1	ASP	412	50.039	99.298	39.103	1.00	0.00	O
ATOM	3907	OD2	ASP	412	51.150	100.633	37.712	1.00	0.00	O
ATOM	3908	C	ASP	412	46.527	101.352	38.663	1.00	0.00	C
ATOM	3909	O	ASP	412	45.634	101.260	37.827	1.00	0.00	O
ATOM	3910	N	PRO	413	46.537	102.303	39.563	1.00	0.00	N
ATOM	3911	CA	PRO	413	45.525	103.326	39.661	1.00	0.00	C
ATOM	3912	CD	PRO	413	47.671	102.554	40.436	1.00	0.00	C
ATOM	3913	CB	PRO	413	45.883	104.126	40.911	1.00	0.00	C
ATOM	3914	CG	PRO	413	47.412	103.957	41.015	1.00	0.00	C
ATOM	3915	C	PRO	413	45.517	104.192	38.444	1.00	0.00	C
ATOM	3916	O	PRO	413	46.584	104.620	38.008	1.00	0.00	O
ATOM	3917	N	THR	414	44.322	104.487	37.898	1.00	0.00	N
ATOM	3918	HN	THR	414	43.466	104.122	38.316	1.00	0.00	H
ATOM	3919	CA	THR	414	44.254	105.314	36.730	1.00	0.00	C

ATOM	3920	CB	THR	414	42.854	105.461	36.213	1.00	0.00	C
ATOM	3921	OG1	THR	414	42.311	104.187	35.900	1.00	0.00	O
ATOM	3922	HG1	THR	414	42.292	103.640	36.676	1.00	0.00	H
ATOM	3923	CG2	THR	414	42.885	106.347	34.956	1.00	0.00	C
ATOM	3924	C	THR	414	44.752	106.684	37.073	1.00	0.00	C
ATOM	3925	O	THR	414	45.621	107.227	36.393	1.00	0.00	O
ATOM	3926	N	GLU	415	44.220	107.278	38.159	1.00	0.00	N
ATOM	3927	HN	GLU	415	43.512	106.786	38.703	1.00	0.00	H
ATOM	3928	CA	GLU	415	44.634	108.593	38.563	1.00	0.00	C
ATOM	3929	CB	GLU	415	43.723	109.741	38.095	1.00	0.00	C
ATOM	3930	CG	GLU	415	44.052	110.254	36.696	1.00	0.00	C
ATOM	3931	CD	GLU	415	45.298	111.121	36.829	1.00	0.00	C
ATOM	3932	OE1	GLU	415	45.774	111.291	37.984	1.00	0.00	O
ATOM	3933	OE2	GLU	415	45.787	111.627	35.784	1.00	0.00	O
ATOM	3934	C	GLU	415	44.640	108.640	40.044	1.00	0.00	C
ATOM	3935	O	GLU	415	44.051	107.793	40.713	1.00	0.00	O
ATOM	3936	N	GLY	416	45.319	109.660	40.595	1.00	0.00	N
ATOM	3937	HN	GLY	416	45.776	110.356	40.006	1.00	0.00	H
ATOM	3938	CA	GLY	416	45.390	109.753	42.016	1.00	0.00	C
ATOM	3939	C	GLY	416	46.356	108.702	42.431	1.00	0.00	C
ATOM	3940	O	GLY	416	47.248	108.341	41.666	1.00	0.00	O
ATOM	3941	N	MET	417	46.217	108.190	43.667	1.00	0.00	N
ATOM	3942	HN	MET	417	45.474	108.511	44.288	1.00	0.00	H
ATOM	3943	CA	MET	417	47.143	107.180	44.087	1.00	0.00	C
ATOM	3944	CB	MET	417	48.537	107.709	44.477	1.00	0.00	C
ATOM	3945	CG	MET	417	49.420	108.192	43.331	1.00	0.00	C
ATOM	3946	SD	MET	417	50.082	106.875	42.266	1.00	0.00	S
ATOM	3947	CE	MET	417	51.015	108.009	41.197	1.00	0.00	C
ATOM	3948	C	MET	417	46.645	106.559	45.341	1.00	0.00	C
ATOM	3949	O	MET	417	45.628	106.955	45.908	1.00	0.00	O
ATOM	3950	N	VAL	418	47.384	105.529	45.785	1.00	0.00	N
ATOM	3951	HN	VAL	418	48.170	105.211	45.219	1.00	0.00	H
ATOM	3952	CA	VAL	418	47.113	104.862	47.017	1.00	0.00	C
ATOM	3953	CB	VAL	418	46.445	103.533	46.831	1.00	0.00	C
ATOM	3954	CG1	VAL	418	47.198	102.766	45.734	1.00	0.00	C
ATOM	3955	CG2	VAL	418	46.438	102.798	48.181	1.00	0.00	C
ATOM	3956	C	VAL	418	48.425	104.641	47.677	1.00	0.00	C
ATOM	3957	O	VAL	418	49.450	104.467	47.017	1.00	0.00	O
ATOM	3958	N	SER	419	48.427	104.673	49.020	1.00	0.00	N
ATOM	3959	HN	SER	419	47.568	104.845	49.543	1.00	0.00	H
ATOM	3960	CA	SER	419	49.666	104.459	49.693	1.00	0.00	C
ATOM	3961	CB	SER	419	50.249	105.728	50.339	1.00	0.00	C
ATOM	3962	OG	SER	419	49.558	106.027	51.542	1.00	0.00	O
ATOM	3963	HG	SER	419	49.918	106.810	51.941	1.00	0.00	H
ATOM	3964	C	SER	419	49.423	103.493	50.804	1.00	0.00	C
ATOM	3965	O	SER	419	48.388	103.536	51.467	1.00	0.00	O
ATOM	3966	N	VAL	420	50.376	102.563	50.997	1.00	0.00	N
ATOM	3967	HN	VAL	420	51.143	102.499	50.328	1.00	0.00	H
ATOM	3968	CA	VAL	420	50.353	101.662	52.105	1.00	0.00	C
ATOM	3969	CB	VAL	420	50.913	100.303	51.801	1.00	0.00	C
ATOM	3970	CG1	VAL	420	50.996	99.504	53.114	1.00	0.00	C
ATOM	3971	CG2	VAL	420	50.045	99.639	50.717	1.00	0.00	C
ATOM	3972	C	VAL	420	51.265	102.296	53.070	1.00	0.00	C
ATOM	3973	O	VAL	420	52.203	102.953	52.625	1.00	0.00	O
ATOM	3974	N	ASP	421	51.030	102.109	54.388	1.00	0.00	N
ATOM	3975	HN	ASP	421	50.286	101.486	54.702	1.00	0.00	H
ATOM	3976	CA	ASP	421	51.849	102.806	55.332	1.00	0.00	C
ATOM	3977	CB	ASP	421	53.335	102.403	55.244	1.00	0.00	C
ATOM	3978	CG	ASP	421	54.091	103.007	56.420	1.00	0.00	C
ATOM	3979	OD1	ASP	421	53.423	103.542	57.344	1.00	0.00	O
ATOM	3980	OD2	ASP	421	55.349	102.955	56.398	1.00	0.00	O
ATOM	3981	C	ASP	421	51.698	104.237	54.917	1.00	0.00	C
ATOM	3982	O	ASP	421	50.579	104.740	54.819	1.00	0.00	O
ATOM	3983	N	GLY	422	52.847	104.923	54.787	1.00	0.00	N
ATOM	3984	HN	GLY	422	53.668	104.456	55.171	1.00	0.00	H
ATOM	3985	CA	GLY	422	53.107	106.205	54.197	1.00	0.00	C
ATOM	3986	C	GLY	422	53.385	106.192	52.704	1.00	0.00	C
ATOM	3987	O	GLY	422	53.261	107.228	52.052	1.00	0.00	O
ATOM	3988	N	GLN	423	53.887	105.060	52.150	1.00	0.00	N
ATOM	3989	HN	GLN	423	53.884	104.207	52.709	1.00	0.00	H
ATOM	3990	CA	GLN	423	54.427	104.997	50.809	1.00	0.00	C
ATOM	3991	CB	GLN	423	55.572	103.982	50.688	1.00	0.00	C
ATOM	3992	CG	GLN	423	56.772	104.304	51.579	1.00	0.00	C
ATOM	3993	CD	GLN	423	57.663	103.076	51.553	1.00	0.00	C

ATOM	3994	OE1	GLN	423	57.188	101.961	51.749	1.00	0.00	O
ATOM	3995	NE2	GLN	423	58.982	103.276	51.291	1.00	0.00	N
ATOM	3996	1HE2	GLN	423	59.581	102.451	51.274	1.00	0.00	H
ATOM	3997	2HE2	GLN	423	59.377	104.202	51.128	1.00	0.00	H
ATOM	3998	C	GLN	423	53.402	104.595	49.797	1.00	0.00	C
ATOM	3999	O	GLN	423	52.368	104.012	50.114	1.00	0.00	O
ATOM	4000	N	ASP	424	53.701	104.917	48.522	1.00	0.00	N
ATOM	4001	HN	ASP	424	54.588	105.390	48.348	1.00	0.00	H
ATOM	4002	CA	ASP	424	52.861	104.641	47.396	1.00	0.00	C
ATOM	4003	CB	ASP	424	53.290	105.473	46.169	1.00	0.00	C
ATOM	4004	CG	ASP	424	52.451	105.121	44.952	1.00	0.00	C
ATOM	4005	OD1	ASP	424	52.547	103.961	44.476	1.00	0.00	O
ATOM	4006	OD2	ASP	424	51.706	106.014	44.472	1.00	0.00	O
ATOM	4007	C	ASP	424	53.009	103.191	47.065	1.00	0.00	C
ATOM	4008	O	ASP	424	54.110	102.668	46.916	1.00	0.00	O
ATOM	4009	N	ILE	425	51.870	102.513	46.883	1.00	0.00	N
ATOM	4010	HN	ILE	425	50.990	103.029	46.891	1.00	0.00	H
ATOM	4011	CA	ILE	425	51.829	101.092	46.677	1.00	0.00	C
ATOM	4012	CB	ILE	425	50.413	100.630	46.496	1.00	0.00	C
ATOM	4013	CG1	ILE	425	50.358	99.114	46.316	1.00	0.00	C
ATOM	4014	CG2	ILE	425	49.786	101.414	45.334	1.00	0.00	C
ATOM	4015	CD1	ILE	425	48.939	98.554	46.369	1.00	0.00	C
ATOM	4016	C	ILE	425	52.607	100.663	45.460	1.00	0.00	C
ATOM	4017	O	ILE	425	53.439	99.759	45.538	1.00	0.00	O
ATOM	4018	N	ARG	426	52.420	101.357	44.326	1.00	0.00	N
ATOM	4019	HN	ARG	426	51.866	102.212	44.376	1.00	0.00	H
ATOM	4020	CA	ARG	426	52.949	100.974	43.048	1.00	0.00	C
ATOM	4021	CB	ARG	426	52.650	102.044	41.993	1.00	0.00	C
ATOM	4022	CG	ARG	426	51.154	102.318	41.853	1.00	0.00	C
ATOM	4023	CD	ARG	426	50.841	103.639	41.154	1.00	0.00	C
ATOM	4024	NE	ARG	426	51.264	103.508	39.735	1.00	0.00	N
ATOM	4025	HE	ARG	426	51.783	102.687	39.425	1.00	0.00	H
ATOM	4026	CZ	ARG	426	50.950	104.498	38.852	1.00	0.00	C
ATOM	4027	NH1	ARG	426	50.246	105.586	39.280	1.00	0.00	N
ATOM	4028	1HH1	ARG	426	50.011	106.327	38.619	1.00	0.00	H
ATOM	4029	2HH1	ARG	426	49.951	105.657	40.254	1.00	0.00	H
ATOM	4030	NH2	ARG	426	51.345	104.403	37.549	1.00	0.00	N
ATOM	4031	1HH2	ARG	426	51.110	105.144	36.888	1.00	0.00	H
ATOM	4032	2HH2	ARG	426	51.871	103.590	37.229	1.00	0.00	H
ATOM	4033	C	ARG	426	54.432	100.855	43.154	1.00	0.00	C
ATOM	4034	O	ARG	426	55.041	99.974	42.546	1.00	0.00	O
ATOM	4035	N	THR	427	55.036	101.740	43.961	1.00	0.00	N
ATOM	4036	HN	THR	427	54.454	102.380	44.501	1.00	0.00	H
ATOM	4037	CA	THR	427	56.456	101.829	44.101	1.00	0.00	C
ATOM	4038	CB	THR	427	56.820	102.814	45.165	1.00	0.00	C
ATOM	4039	OG1	THR	427	56.289	104.091	44.866	1.00	0.00	O
ATOM	4040	HG1	THR	427	56.520	104.717	45.542	1.00	0.00	H
ATOM	4041	CG2	THR	427	58.339	102.898	45.240	1.00	0.00	C
ATOM	4042	C	THR	427	57.033	100.526	44.560	1.00	0.00	C
ATOM	4043	O	THR	427	58.075	100.099	44.071	1.00	0.00	O
ATOM	4044	N	ILE	428	56.367	99.869	45.520	1.00	0.00	N
ATOM	4045	HN	ILE	428	55.466	100.240	45.821	1.00	0.00	H
ATOM	4046	CA	ILE	428	56.853	98.670	46.150	1.00	0.00	C
ATOM	4047	CB	ILE	428	55.996	98.236	47.296	1.00	0.00	C
ATOM	4048	CG1	ILE	428	55.695	99.390	48.250	1.00	0.00	C
ATOM	4049	CG2	ILE	428	56.726	97.089	47.999	1.00	0.00	C
ATOM	4050	CD1	ILE	428	54.551	99.060	49.206	1.00	0.00	C
ATOM	4051	C	ILE	428	56.777	97.506	45.197	1.00	0.00	C
ATOM	4052	O	ILE	428	55.958	97.485	44.280	1.00	0.00	O
ATOM	4053	N	ASN	429	57.667	96.506	45.399	1.00	0.00	N
ATOM	4054	HN	ASN	429	58.359	96.629	46.138	1.00	0.00	H
ATOM	4055	CA	ASN	429	57.705	95.281	44.644	1.00	0.00	C
ATOM	4056	CB	ASN	429	58.907	94.394	45.013	1.00	0.00	C
ATOM	4057	CG	ASN	429	58.748	93.045	44.332	1.00	0.00	C
ATOM	4058	OD1	ASN	429	58.697	92.011	44.995	1.00	0.00	O
ATOM	4059	ND2	ASN	429	58.657	93.049	42.976	1.00	0.00	N
ATOM	4060	1HD2	ASN	429	58.699	93.907	42.426	1.00	0.00	H
ATOM	4061	2HD2	ASN	429	58.550	92.143	42.519	1.00	0.00	H
ATOM	4062	C	ASN	429	56.463	94.478	44.905	1.00	0.00	C
ATOM	4063	O	ASN	429	55.897	94.505	45.996	1.00	0.00	O
ATOM	4064	N	VAL	430	56.007	93.754	43.859	1.00	0.00	N
ATOM	4065	HN	VAL	430	56.564	93.743	43.005	1.00	0.00	H
ATOM	4066	CA	VAL	430	54.781	92.996	43.877	1.00	0.00	C
ATOM	4067	CB	VAL	430	54.429	92.465	42.519	1.00	0.00	C

ATOM	4068	CG1	VAL	430	53.127	91.649	42.623	1.00	0.00	C
ATOM	4069	CG2	VAL	430	54.364	93.646	41.537	1.00	0.00	C
ATOM	4070	C	VAL	430	54.777	91.820	44.809	1.00	0.00	C
ATOM	4071	O	VAL	430	53.998	91.819	45.761	1.00	0.00	O
ATOM	4072	N	ARG	431	55.703	90.846	44.625	1.00	0.00	N
ATOM	4073	HN	ARG	431	56.464	91.002	43.964	1.00	0.00	H
ATOM	4074	CA	ARG	431	55.639	89.593	45.341	1.00	0.00	C
ATOM	4075	CB	ARG	431	56.826	88.650	45.081	1.00	0.00	C
ATOM	4076	CG	ARG	431	58.176	89.218	45.515	1.00	0.00	C
ATOM	4077	CD	ARG	431	59.331	88.222	45.393	1.00	0.00	C
ATOM	4078	NE	ARG	431	59.492	87.889	43.950	1.00	0.00	N
ATOM	4079	HE	ARG	431	59.697	88.627	43.276	1.00	0.00	H
ATOM	4080	CZ	ARG	431	59.366	86.597	43.529	1.00	0.00	C
ATOM	4081	NH1	ARG	431	59.100	85.606	44.428	1.00	0.00	N
ATOM	4082	1HH1	ARG	431	59.006	84.640	44.113	1.00	0.00	H
ATOM	4083	2HH1	ARG	431	58.989	85.831	45.417	1.00	0.00	H
ATOM	4084	NH2	ARG	431	59.515	86.296	42.205	1.00	0.00	N
ATOM	4085	1HH2	ARG	431	59.421	85.330	41.890	1.00	0.00	H
ATOM	4086	2HH2	ARG	431	59.714	87.037	41.533	1.00	0.00	H
ATOM	4087	C	ARG	431	55.648	89.939	46.804	1.00	0.00	C
ATOM	4088	O	ARG	431	54.993	89.284	47.617	1.00	0.00	O
ATOM	4089	N	PHE	432	56.403	91.000	47.154	1.00	0.00	N
ATOM	4090	HN	PHE	432	56.937	91.470	46.423	1.00	0.00	H
ATOM	4091	CA	PHE	432	56.500	91.509	48.498	1.00	0.00	C
ATOM	4092	CB	PHE	432	57.540	92.651	48.553	1.00	0.00	C
ATOM	4093	CG	PHE	432	57.845	93.088	49.949	1.00	0.00	C
ATOM	4094	CD1	PHE	432	57.088	94.049	50.580	1.00	0.00	C
ATOM	4095	CD2	PHE	432	58.916	92.544	50.624	1.00	0.00	C
ATOM	4096	CE1	PHE	432	57.387	94.450	51.863	1.00	0.00	C
ATOM	4097	CE2	PHE	432	59.220	92.940	51.905	1.00	0.00	C
ATOM	4098	CZ	PHE	432	58.454	93.896	52.529	1.00	0.00	C
ATOM	4099	C	PHE	432	55.167	92.050	48.952	1.00	0.00	C
ATOM	4100	O	PHE	432	54.658	91.674	50.009	1.00	0.00	O
ATOM	4101	N	LEU	433	54.539	92.924	48.136	1.00	0.00	N
ATOM	4102	HN	LEU	433	54.935	93.130	47.219	1.00	0.00	H
ATOM	4103	CA	LEU	433	53.316	93.570	48.544	1.00	0.00	C
ATOM	4104	CB	LEU	433	52.819	94.545	47.458	1.00	0.00	C
ATOM	4105	CG	LEU	433	51.515	95.324	47.735	1.00	0.00	C
ATOM	4106	CD1	LEU	433	51.306	96.350	46.620	1.00	0.00	C
ATOM	4107	CD2	LEU	433	50.269	94.433	47.856	1.00	0.00	C
ATOM	4108	C	LEU	433	52.290	92.519	48.767	1.00	0.00	C
ATOM	4109	O	LEU	433	51.688	92.428	49.837	1.00	0.00	O
ATOM	4110	N	ARG	434	52.148	91.629	47.779	1.00	0.00	N
ATOM	4111	HN	ARG	434	52.787	91.661	46.984	1.00	0.00	H
ATOM	4112	CA	ARG	434	51.125	90.637	47.810	1.00	0.00	C
ATOM	4113	CB	ARG	434	51.195	89.690	46.603	1.00	0.00	C
ATOM	4114	CG	ARG	434	50.907	90.406	45.283	1.00	0.00	C
ATOM	4115	CD	ARG	434	49.414	90.579	45.001	1.00	0.00	C
ATOM	4116	NE	ARG	434	49.278	91.420	43.778	1.00	0.00	N
ATOM	4117	HE	ARG	434	49.111	92.422	43.865	1.00	0.00	H
ATOM	4118	CZ	ARG	434	49.377	90.851	42.542	1.00	0.00	C
ATOM	4119	NH1	ARG	434	49.672	89.523	42.427	1.00	0.00	N
ATOM	4120	1HH1	ARG	434	49.815	88.955	43.262	1.00	0.00	H
ATOM	4121	2HH1	ARG	434	49.746	89.098	41.503	1.00	0.00	H
ATOM	4122	NH2	ARG	434	49.186	91.611	41.425	1.00	0.00	N
ATOM	4123	1HH2	ARG	434	48.966	92.603	41.511	1.00	0.00	H
ATOM	4124	2HH2	ARG	434	49.260	91.186	40.501	1.00	0.00	H
ATOM	4125	C	ARG	434	51.303	89.831	49.058	1.00	0.00	C
ATOM	4126	O	ARG	434	50.330	89.351	49.634	1.00	0.00	O
ATOM	4127	N	GLU	435	52.556	89.619	49.497	1.00	0.00	N
ATOM	4128	HN	GLU	435	53.351	89.988	48.975	1.00	0.00	H
ATOM	4129	CA	GLU	435	52.771	88.870	50.706	1.00	0.00	C
ATOM	4130	CB	GLU	435	54.260	88.540	50.899	1.00	0.00	C
ATOM	4131	CG	GLU	435	54.774	87.560	49.836	1.00	0.00	C
ATOM	4132	CD	GLU	435	56.297	87.570	49.831	1.00	0.00	C
ATOM	4133	OE1	GLU	435	56.893	88.424	50.540	1.00	0.00	O
ATOM	4134	OE2	GLU	435	56.885	86.724	49.106	1.00	0.00	O
ATOM	4135	C	GLU	435	52.258	89.640	51.906	1.00	0.00	C
ATOM	4136	O	GLU	435	51.572	89.096	52.770	1.00	0.00	O
ATOM	4137	N	ILE	436	52.538	90.954	51.944	1.00	0.00	N
ATOM	4138	HN	ILE	436	53.019	91.333	51.128	1.00	0.00	H
ATOM	4139	CA	ILE	436	52.241	91.893	52.998	1.00	0.00	C
ATOM	4140	CB	ILE	436	52.819	93.250	52.704	1.00	0.00	C
ATOM	4141	CG1	ILE	436	54.337	93.118	52.502	1.00	0.00	C

ATOM	4142	CG2	ILE	436	52.449	94.218	53.843	1.00	0.00	C
ATOM	4143	CD1	ILE	436	55.062	92.531	53.712	1.00	0.00	C
ATOM	4144	C	ILE	436	50.761	92.028	53.178	1.00	0.00	C
ATOM	4145	O	ILE	436	50.304	92.555	54.192	1.00	0.00	O
ATOM	4146	N	ILE	437	49.967	91.696	52.144	1.00	0.00	N
ATOM	4147	HN	ILE	437	50.356	91.324	51.278	1.00	0.00	H
ATOM	4148	CA	ILE	437	48.554	91.884	52.302	1.00	0.00	C
ATOM	4149	CB	ILE	437	47.988	92.744	51.209	1.00	0.00	C
ATOM	4150	CG1	ILE	437	48.651	94.133	51.260	1.00	0.00	C
ATOM	4151	CG2	ILE	437	46.459	92.785	51.354	1.00	0.00	C
ATOM	4152	CD1	ILE	437	48.367	95.006	50.038	1.00	0.00	C
ATOM	4153	C	ILE	437	47.823	90.569	52.307	1.00	0.00	C
ATOM	4154	O	ILE	437	47.598	89.957	51.266	1.00	0.00	O
ATOM	4155	N	GLY	438	47.379	90.125	53.501	1.00	0.00	N
ATOM	4156	HN	GLY	438	47.552	90.691	54.332	1.00	0.00	H
ATOM	4157	CA	GLY	438	46.671	88.882	53.642	1.00	0.00	C
ATOM	4158	C	GLY	438	45.327	89.070	53.018	1.00	0.00	C
ATOM	4159	O	GLY	438	44.713	90.122	53.183	1.00	0.00	O
ATOM	4160	N	VAL	439	44.825	88.049	52.287	1.00	0.00	N
ATOM	4161	HN	VAL	439	45.351	87.181	52.184	1.00	0.00	H
ATOM	4162	CA	VAL	439	43.540	88.201	51.655	1.00	0.00	C
ATOM	4163	CB	VAL	439	43.645	88.592	50.204	1.00	0.00	C
ATOM	4164	CG1	VAL	439	42.237	88.605	49.586	1.00	0.00	C
ATOM	4165	CG2	VAL	439	44.377	89.941	50.099	1.00	0.00	C
ATOM	4166	C	VAL	439	42.751	86.914	51.703	1.00	0.00	C
ATOM	4167	O	VAL	439	43.277	85.823	51.492	1.00	0.00	O
ATOM	4168	N	VAL	440	41.435	87.009	51.984	1.00	0.00	N
ATOM	4169	HN	VAL	440	41.025	87.918	52.196	1.00	0.00	H
ATOM	4170	CA	VAL	440	40.606	85.827	51.985	1.00	0.00	C
ATOM	4171	CB	VAL	440	40.282	85.350	53.371	1.00	0.00	C
ATOM	4172	CG1	VAL	440	39.396	84.099	53.278	1.00	0.00	C
ATOM	4173	CG2	VAL	440	41.605	85.113	54.119	1.00	0.00	C
ATOM	4174	C	VAL	440	39.314	86.153	51.296	1.00	0.00	C
ATOM	4175	O	VAL	440	38.507	86.912	51.826	1.00	0.00	O
ATOM	4176	N	SER	441	39.082	85.563	50.100	1.00	0.00	N
ATOM	4177	HN	SER	441	39.797	84.939	49.728	1.00	0.00	H
ATOM	4178	CA	SER	441	37.884	85.763	49.319	1.00	0.00	C
ATOM	4179	CB	SER	441	38.127	85.742	47.803	1.00	0.00	C
ATOM	4180	OG	SER	441	39.040	86.760	47.437	1.00	0.00	O
ATOM	4181	HG	SER	441	39.190	86.747	46.499	1.00	0.00	H
ATOM	4182	C	SER	441	36.943	84.617	49.580	1.00	0.00	C
ATOM	4183	O	SER	441	37.192	83.775	50.444	1.00	0.00	O
ATOM	4184	N	GLN	442	35.823	84.576	48.817	1.00	0.00	N
ATOM	4185	HN	GLN	442	35.733	85.225	48.035	1.00	0.00	H
ATOM	4186	CA	GLN	442	34.757	83.645	49.076	1.00	0.00	C
ATOM	4187	CB	GLN	442	33.580	83.820	48.104	1.00	0.00	C
ATOM	4188	CG	GLN	442	33.113	85.261	47.934	1.00	0.00	C
ATOM	4189	CD	GLN	442	33.843	85.828	46.722	1.00	0.00	C
ATOM	4190	OE1	GLN	442	35.056	85.683	46.578	1.00	0.00	O
ATOM	4191	NE2	GLN	442	33.076	86.478	45.808	1.00	0.00	N
ATOM	4192	1HE2	GLN	442	32.070	86.598	45.927	1.00	0.00	H
ATOM	4193	2HE2	GLN	442	33.565	86.857	44.997	1.00	0.00	H
ATOM	4194	C	GLN	442	35.128	82.208	48.920	1.00	0.00	C
ATOM	4195	O	GLN	442	35.434	81.547	49.909	1.00	0.00	O
ATOM	4196	N	GLU	443	35.249	81.726	47.664	1.00	0.00	N
ATOM	4197	HN	GLU	443	35.200	82.360	46.866	1.00	0.00	H
ATOM	4198	CA	GLU	443	35.446	80.321	47.455	1.00	0.00	C
ATOM	4199	CB	GLU	443	35.594	79.994	45.956	1.00	0.00	C
ATOM	4200	CG	GLU	443	36.531	78.825	45.638	1.00	0.00	C
ATOM	4201	CD	GLU	443	35.930	77.519	46.118	1.00	0.00	C
ATOM	4202	OE1	GLU	443	35.669	77.390	47.343	1.00	0.00	O
ATOM	4203	OE2	GLU	443	35.731	76.625	45.255	1.00	0.00	O
ATOM	4204	C	GLU	443	36.724	79.948	48.117	1.00	0.00	C
ATOM	4205	O	GLU	443	37.791	80.307	47.634	1.00	0.00	O
ATOM	4206	N	PRO	444	36.663	79.282	49.240	1.00	0.00	N
ATOM	4207	CA	PRO	444	37.839	78.857	49.926	1.00	0.00	C
ATOM	4208	CD	PRO	444	35.445	78.736	49.818	1.00	0.00	C
ATOM	4209	CB	PRO	444	37.348	78.333	51.274	1.00	0.00	C
ATOM	4210	CG	PRO	444	35.932	77.813	50.950	1.00	0.00	C
ATOM	4211	C	PRO	444	38.329	77.763	49.067	1.00	0.00	C
ATOM	4212	O	PRO	444	37.614	76.770	48.936	1.00	0.00	O
ATOM	4213	N	VAL	445	39.545	77.862	48.522	1.00	0.00	N
ATOM	4214	HN	VAL	445	40.172	78.650	48.684	1.00	0.00	H
ATOM	4215	CA	VAL	445	39.873	76.763	47.698	1.00	0.00	C

ATOM	4216	CB	VAL	445	40.193	77.143	46.279	1.00	0.00	C
ATOM	4217	CG1	VAL	445	41.501	77.954	46.262	1.00	0.00	C
ATOM	4218	CG2	VAL	445	40.230	75.860	45.431	1.00	0.00	C
ATOM	4219	C	VAL	445	41.051	76.089	48.269	1.00	0.00	C
ATOM	4220	O	VAL	445	42.023	76.720	48.681	1.00	0.00	O
ATOM	4221	N	LEU	446	40.961	74.755	48.312	1.00	0.00	N
ATOM	4222	HN	LEU	446	40.123	74.291	47.961	1.00	0.00	H
ATOM	4223	CA	LEU	446	42.026	73.982	48.844	1.00	0.00	C
ATOM	4224	CB	LEU	446	41.606	73.126	50.048	1.00	0.00	C
ATOM	4225	CG	LEU	446	41.200	73.989	51.253	1.00	0.00	C
ATOM	4226	CD1	LEU	446	40.784	73.123	52.451	1.00	0.00	C
ATOM	4227	CD2	LEU	446	42.304	75.000	51.596	1.00	0.00	C
ATOM	4228	C	LEU	446	42.428	73.076	47.743	1.00	0.00	C
ATOM	4229	O	LEU	446	41.610	72.355	47.174	1.00	0.00	O
ATOM	4230	N	PHE	447	43.724	73.107	47.413	1.00	0.00	N
ATOM	4231	HN	PHE	447	44.365	73.710	47.929	1.00	0.00	H
ATOM	4232	CA	PHE	447	44.212	72.306	46.349	1.00	0.00	C
ATOM	4233	CB	PHE	447	45.674	72.621	45.999	1.00	0.00	C
ATOM	4234	CG	PHE	447	45.762	74.101	45.832	1.00	0.00	C
ATOM	4235	CD1	PHE	447	45.435	74.714	44.645	1.00	0.00	C
ATOM	4236	CD2	PHE	447	46.153	74.883	46.894	1.00	0.00	C
ATOM	4237	CE1	PHE	447	45.520	76.081	44.516	1.00	0.00	C
ATOM	4238	CE2	PHE	447	46.239	76.249	46.770	1.00	0.00	C
ATOM	4239	CZ	PHE	447	45.925	76.854	45.577	1.00	0.00	C
ATOM	4240	C	PHE	447	44.139	70.894	46.825	1.00	0.00	C
ATOM	4241	O	PHE	447	44.057	70.636	48.024	1.00	0.00	O
ATOM	4242	N	ALA	448	44.121	69.921	45.902	1.00	0.00	N
ATOM	4243	HN	ALA	448	44.183	70.119	44.903	1.00	0.00	H
ATOM	4244	CA	ALA	448	44.009	68.585	46.408	1.00	0.00	C
ATOM	4245	CB	ALA	448	43.648	67.553	45.327	1.00	0.00	C
ATOM	4246	C	ALA	448	45.337	68.220	46.968	1.00	0.00	C
ATOM	4247	O	ALA	448	46.305	68.035	46.229	1.00	0.00	O
ATOM	4248	N	THR	449	45.404	68.116	48.313	1.00	0.00	N
ATOM	4249	HN	THR	449	44.571	68.254	48.885	1.00	0.00	H
ATOM	4250	CA	THR	449	46.658	67.810	48.921	1.00	0.00	C
ATOM	4251	CB	THR	449	47.644	68.923	48.709	1.00	0.00	C
ATOM	4252	OG1	THR	449	48.964	68.463	48.927	1.00	0.00	O
ATOM	4253	HG1	THR	449	49.166	67.749	48.334	1.00	0.00	H
ATOM	4254	CG2	THR	449	47.317	70.078	49.669	1.00	0.00	C
ATOM	4255	C	THR	449	46.441	67.619	50.393	1.00	0.00	C
ATOM	4256	O	THR	449	45.318	67.475	50.870	1.00	0.00	O
ATOM	4257	N	THR	450	47.552	67.615	51.149	1.00	0.00	N
ATOM	4258	HN	THR	450	48.444	67.755	50.675	1.00	0.00	H
ATOM	4259	CA	THR	450	47.581	67.429	52.570	1.00	0.00	C
ATOM	4260	CB	THR	450	49.009	67.277	53.007	1.00	0.00	C
ATOM	4261	OG1	THR	450	49.659	66.325	52.188	1.00	0.00	O
ATOM	4262	HG1	THR	450	50.563	66.229	52.465	1.00	0.00	H
ATOM	4263	CG2	THR	450	49.068	66.776	54.446	1.00	0.00	C
ATOM	4264	C	THR	450	47.103	68.729	53.145	1.00	0.00	C
ATOM	4265	O	THR	450	47.210	69.770	52.500	1.00	0.00	O
ATOM	4266	N	ILE	451	46.550	68.713	54.374	1.00	0.00	N
ATOM	4267	HN	ILE	451	46.426	67.832	54.873	1.00	0.00	H
ATOM	4268	CA	ILE	451	46.138	69.950	54.972	1.00	0.00	C
ATOM	4269	CB	ILE	451	45.562	69.762	56.348	1.00	0.00	C
ATOM	4270	CG1	ILE	451	44.305	68.876	56.289	1.00	0.00	C
ATOM	4271	CG2	ILE	451	45.299	71.152	56.951	1.00	0.00	C
ATOM	4272	CD1	ILE	451	43.169	69.464	55.450	1.00	0.00	C
ATOM	4273	C	ILE	451	47.392	70.749	55.108	1.00	0.00	C
ATOM	4274	O	ILE	451	47.458	71.915	54.719	1.00	0.00	O
ATOM	4275	N	ALA	452	48.459	70.088	55.589	1.00	0.00	N
ATOM	4276	HN	ALA	452	48.389	69.087	55.775	1.00	0.00	H
ATOM	4277	CA	ALA	452	49.691	70.769	55.844	1.00	0.00	C
ATOM	4278	CB	ALA	452	50.809	69.812	56.291	1.00	0.00	C
ATOM	4279	C	ALA	452	50.155	71.422	54.581	1.00	0.00	C
ATOM	4280	O	ALA	452	50.463	72.612	54.571	1.00	0.00	O
ATOM	4281	N	GLU	453	50.123	70.690	53.456	1.00	0.00	N
ATOM	4282	HN	GLU	453	49.731	69.749	53.483	1.00	0.00	H
ATOM	4283	CA	GLU	453	50.629	71.204	52.217	1.00	0.00	C
ATOM	4284	CB	GLU	453	50.367	70.264	51.030	1.00	0.00	C
ATOM	4285	CG	GLU	453	51.393	69.151	50.858	1.00	0.00	C
ATOM	4286	CD	GLU	453	52.557	69.782	50.112	1.00	0.00	C
ATOM	4287	OE1	GLU	453	52.632	71.039	50.103	1.00	0.00	O
ATOM	4288	OE2	GLU	453	53.382	69.025	49.537	1.00	0.00	O
ATOM	4289	C	GLU	453	49.925	72.477	51.874	1.00	0.00	C

ATOM	4290	O	GLU	453	50.545	73.404	51.359	1.00	0.00	O
ATOM	4291	N	ASN	454	48.607	72.556	52.121	1.00	0.00	N
ATOM	4292	HN	ASN	454	48.123	71.776	52.566	1.00	0.00	H
ATOM	4293	CA	ASN	454	47.880	73.740	51.757	1.00	0.00	C
ATOM	4294	CB	ASN	454	46.374	73.623	52.039	1.00	0.00	C
ATOM	4295	CG	ASN	454	45.791	72.667	51.007	1.00	0.00	C
ATOM	4296	OD1	ASN	454	45.842	72.925	49.805	1.00	0.00	O
ATOM	4297	ND2	ASN	454	45.232	71.524	51.487	1.00	0.00	N
ATOM	4298	1HD2	ASN	454	45.190	71.310	52.483	1.00	0.00	H
ATOM	4299	2HD2	ASN	454	44.841	70.884	50.796	1.00	0.00	H
ATOM	4300	C	ASN	454	48.408	74.903	52.532	1.00	0.00	C
ATOM	4301	O	ASN	454	48.690	75.957	51.965	1.00	0.00	O
ATOM	4302	N	ILE	455	48.600	74.730	53.851	1.00	0.00	N
ATOM	4303	HN	ILE	455	48.380	73.835	54.289	1.00	0.00	H
ATOM	4304	CA	ILE	455	49.116	75.812	54.638	1.00	0.00	C
ATOM	4305	CB	ILE	455	49.309	75.476	56.094	1.00	0.00	C
ATOM	4306	CG1	ILE	455	47.956	75.306	56.815	1.00	0.00	C
ATOM	4307	CG2	ILE	455	50.187	76.580	56.705	1.00	0.00	C
ATOM	4308	CD1	ILE	455	47.144	74.098	56.356	1.00	0.00	C
ATOM	4309	C	ILE	455	50.452	76.145	54.049	1.00	0.00	C
ATOM	4310	O	ILE	455	50.819	77.313	53.931	1.00	0.00	O
ATOM	4311	N	ARG	456	51.199	75.109	53.624	1.00	0.00	N
ATOM	4312	HN	ARG	456	50.830	74.162	53.711	1.00	0.00	H
ATOM	4313	CA	ARG	456	52.498	75.301	53.053	1.00	0.00	C
ATOM	4314	CB	ARG	456	53.266	74.000	52.760	1.00	0.00	C
ATOM	4315	CG	ARG	456	54.644	74.280	52.155	1.00	0.00	C
ATOM	4316	CD	ARG	456	55.701	73.212	52.444	1.00	0.00	C
ATOM	4317	NE	ARG	456	55.286	71.941	51.790	1.00	0.00	N
ATOM	4318	HE	ARG	456	55.039	71.925	50.801	1.00	0.00	H
ATOM	4319	CZ	ARG	456	55.241	70.797	52.533	1.00	0.00	C
ATOM	4320	NH1	ARG	456	55.529	70.847	53.866	1.00	0.00	N
ATOM	4321	1HH1	ARG	456	55.776	71.735	54.303	1.00	0.00	H
ATOM	4322	2HH1	ARG	456	55.495	69.992	54.421	1.00	0.00	H
ATOM	4323	NH2	ARG	456	54.910	69.609	51.948	1.00	0.00	N
ATOM	4324	1HH2	ARG	456	54.695	69.572	50.952	1.00	0.00	H
ATOM	4325	2HH2	ARG	456	54.876	68.754	52.503	1.00	0.00	H
ATOM	4326	C	ARG	456	52.375	76.091	51.783	1.00	0.00	C
ATOM	4327	O	ARG	456	53.288	76.819	51.418	1.00	0.00	O
ATOM	4328	N	TYR	457	51.263	75.973	51.042	1.00	0.00	N
ATOM	4329	HN	TYR	457	50.536	75.310	51.310	1.00	0.00	H
ATOM	4330	CA	TYR	457	51.103	76.787	49.867	1.00	0.00	C
ATOM	4331	CB	TYR	457	49.727	76.614	49.199	1.00	0.00	C
ATOM	4332	CG	TYR	457	49.763	75.429	48.295	1.00	0.00	C
ATOM	4333	CD1	TYR	457	49.829	74.145	48.785	1.00	0.00	C
ATOM	4334	CD2	TYR	457	49.764	75.624	46.933	1.00	0.00	C
ATOM	4335	CE1	TYR	457	49.869	73.073	47.923	1.00	0.00	C
ATOM	4336	CE2	TYR	457	49.802	74.558	46.068	1.00	0.00	C
ATOM	4337	CZ	TYR	457	49.853	73.279	46.564	1.00	0.00	C
ATOM	4338	OH	TYR	457	49.893	72.181	45.679	1.00	0.00	O
ATOM	4339	HH	TYR	457	49.928	71.296	46.022	1.00	0.00	H
ATOM	4340	C	TYR	457	51.187	78.196	50.335	1.00	0.00	C
ATOM	4341	O	TYR	457	51.756	79.056	49.664	1.00	0.00	O
ATOM	4342	N	GLY	458	50.636	78.451	51.532	1.00	0.00	N
ATOM	4343	HN	GLY	458	50.212	77.694	52.068	1.00	0.00	H
ATOM	4344	CA	GLY	458	50.642	79.779	52.058	1.00	0.00	C
ATOM	4345	C	GLY	458	52.064	80.225	52.127	1.00	0.00	C
ATOM	4346	O	GLY	458	52.378	81.363	51.783	1.00	0.00	O
ATOM	4347	N	ARG	459	52.969	79.346	52.594	1.00	0.00	N
ATOM	4348	HN	ARG	459	52.683	78.426	52.930	1.00	0.00	H
ATOM	4349	CA	ARG	459	54.347	79.740	52.605	1.00	0.00	C
ATOM	4350	CB	ARG	459	54.773	80.378	53.936	1.00	0.00	C
ATOM	4351	CG	ARG	459	56.130	81.080	53.877	1.00	0.00	C
ATOM	4352	CD	ARG	459	56.417	81.935	55.112	1.00	0.00	C
ATOM	4353	NE	ARG	459	56.514	81.018	56.281	1.00	0.00	N
ATOM	4354	HE	ARG	459	56.913	80.086	56.168	1.00	0.00	H
ATOM	4355	CZ	ARG	459	56.068	81.428	57.503	1.00	0.00	C
ATOM	4356	NH1	ARG	459	55.502	82.662	57.644	1.00	0.00	N
ATOM	4357	1HH1	ARG	459	55.168	82.969	58.558	1.00	0.00	H
ATOM	4358	2HH1	ARG	459	55.413	83.278	56.836	1.00	0.00	H
ATOM	4359	NH2	ARG	459	56.187	80.604	58.585	1.00	0.00	N
ATOM	4360	1HH2	ARG	459	55.853	80.911	59.499	1.00	0.00	H
ATOM	4361	2HH2	ARG	459	56.610	79.682	58.480	1.00	0.00	H
ATOM	4362	C	ARG	459	55.160	78.511	52.376	1.00	0.00	C
ATOM	4363	O	ARG	459	55.093	77.582	53.181	1.00	0.00	O

ATOM	4364	N	GLU	460	55.955	78.481	51.280	1.00	0.00	N
ATOM	4365	HN	GLU	460	56.079	79.332	50.732	1.00	0.00	H
ATOM	4366	CA	GLU	460	56.630	77.275	50.869	1.00	0.00	C
ATOM	4367	CB	GLU	460	57.624	77.521	49.721	1.00	0.00	C
ATOM	4368	CG	GLU	460	56.976	78.103	48.464	1.00	0.00	C
ATOM	4369	CD	GLU	460	56.802	79.604	48.665	1.00	0.00	C
ATOM	4370	OE1	GLU	460	57.253	80.123	49.721	1.00	0.00	O
ATOM	4371	OE2	GLU	460	56.224	80.256	47.755	1.00	0.00	O
ATOM	4372	C	GLU	460	57.440	76.768	52.036	1.00	0.00	C
ATOM	4373	O	GLU	460	57.127	75.715	52.592	1.00	0.00	O
ATOM	4374	N	ASN	461	58.445	77.537	52.514	1.00	0.00	N
ATOM	4375	HN	ASN	461	58.646	78.449	52.104	1.00	0.00	H
ATOM	4376	CA	ASN	461	59.222	77.035	53.615	1.00	0.00	C
ATOM	4377	CB	ASN	461	60.627	77.653	53.723	1.00	0.00	C
ATOM	4378	CG	ASN	461	60.467	79.134	54.027	1.00	0.00	C
ATOM	4379	OD1	ASN	461	60.284	79.527	55.178	1.00	0.00	O
ATOM	4380	ND2	ASN	461	60.543	79.984	52.968	1.00	0.00	N
ATOM	4381	1HD2	ASN	461	60.436	80.978	53.172	1.00	0.00	H
ATOM	4382	2HD2	ASN	461	60.695	79.658	52.013	1.00	0.00	H
ATOM	4383	C	ASN	461	58.483	77.355	54.879	1.00	0.00	C
ATOM	4384	O	ASN	461	57.984	78.466	55.049	1.00	0.00	O
ATOM	4385	N	VAL	462	58.376	76.376	55.802	1.00	0.00	N
ATOM	4386	HN	VAL	462	58.798	75.462	55.637	1.00	0.00	H
ATOM	4387	CA	VAL	462	57.660	76.636	57.020	1.00	0.00	C
ATOM	4388	CB	VAL	462	56.272	77.126	56.726	1.00	0.00	C
ATOM	4389	CG1	VAL	462	55.576	76.074	55.847	1.00	0.00	C
ATOM	4390	CG2	VAL	462	55.539	77.419	58.040	1.00	0.00	C
ATOM	4391	C	VAL	462	57.559	75.344	57.777	1.00	0.00	C
ATOM	4392	O	VAL	462	57.309	74.293	57.189	1.00	0.00	O
ATOM	4393	N	THR	463	57.722	75.391	59.117	1.00	0.00	N
ATOM	4394	HN	THR	463	57.864	76.288	59.581	1.00	0.00	H
ATOM	4395	CA	THR	463	57.696	74.180	59.890	1.00	0.00	C
ATOM	4396	CB	THR	463	58.633	74.205	61.066	1.00	0.00	C
ATOM	4397	OG1	THR	463	59.968	74.419	60.628	1.00	0.00	O
ATOM	4398	HG1	THR	463	60.560	74.435	61.371	1.00	0.00	H
ATOM	4399	CG2	THR	463	58.524	72.868	61.822	1.00	0.00	C
ATOM	4400	C	THR	463	56.314	73.940	60.418	1.00	0.00	C
ATOM	4401	O	THR	463	55.576	74.864	60.752	1.00	0.00	O
ATOM	4402	N	MET	464	55.971	72.652	60.591	1.00	0.00	N
ATOM	4403	HN	MET	464	56.674	71.940	60.393	1.00	0.00	H
ATOM	4404	CA	MET	464	54.680	72.214	61.036	1.00	0.00	C
ATOM	4405	CB	MET	464	54.551	70.690	61.144	1.00	0.00	C
ATOM	4406	CG	MET	464	54.279	70.049	59.792	1.00	0.00	C
ATOM	4407	SD	MET	464	52.764	70.706	59.040	1.00	0.00	S
ATOM	4408	CE	MET	464	51.756	70.464	60.531	1.00	0.00	C
ATOM	4409	C	MET	464	54.461	72.778	62.381	1.00	0.00	C
ATOM	4410	O	MET	464	53.329	72.899	62.835	1.00	0.00	O
ATOM	4411	N	ASP	465	55.548	73.063	63.098	1.00	0.00	N
ATOM	4412	HN	ASP	465	56.486	72.871	62.745	1.00	0.00	H
ATOM	4413	CA	ASP	465	55.339	73.647	64.378	1.00	0.00	C
ATOM	4414	CB	ASP	465	56.663	73.952	65.094	1.00	0.00	C
ATOM	4415	CG	ASP	465	56.365	74.219	66.559	1.00	0.00	C
ATOM	4416	OD1	ASP	465	55.162	74.334	66.918	1.00	0.00	O
ATOM	4417	OD2	ASP	465	57.347	74.310	67.342	1.00	0.00	O
ATOM	4418	C	ASP	465	54.608	74.935	64.152	1.00	0.00	C
ATOM	4419	O	ASP	465	53.626	75.215	64.836	1.00	0.00	O
ATOM	4420	N	GLU	466	55.048	75.757	63.174	1.00	0.00	N
ATOM	4421	HN	GLU	466	55.858	75.513	62.604	1.00	0.00	H
ATOM	4422	CA	GLU	466	54.335	76.985	62.966	1.00	0.00	C
ATOM	4423	CB	GLU	466	55.074	78.067	62.156	1.00	0.00	C
ATOM	4424	CG	GLU	466	55.871	77.576	60.959	1.00	0.00	C
ATOM	4425	CD	GLU	466	57.323	77.499	61.403	1.00	0.00	C
ATOM	4426	OE1	GLU	466	57.674	76.543	62.144	1.00	0.00	O
ATOM	4427	OE2	GLU	466	58.098	78.413	61.014	1.00	0.00	O
ATOM	4428	C	GLU	466	52.973	76.730	62.405	1.00	0.00	C
ATOM	4429	O	GLU	466	52.017	77.407	62.773	1.00	0.00	O
ATOM	4430	N	ILE	467	52.831	75.736	61.514	1.00	0.00	N
ATOM	4431	HN	ILE	467	53.641	75.181	61.239	1.00	0.00	H
ATOM	4432	CA	ILE	467	51.545	75.451	60.948	1.00	0.00	C
ATOM	4433	CB	ILE	467	51.629	74.329	59.970	1.00	0.00	C
ATOM	4434	CG1	ILE	467	52.552	74.756	58.820	1.00	0.00	C
ATOM	4435	CG2	ILE	467	50.204	73.948	59.535	1.00	0.00	C
ATOM	4436	CD1	ILE	467	53.103	73.590	58.011	1.00	0.00	C
ATOM	4437	C	ILE	467	50.625	75.063	62.060	1.00	0.00	C

ATOM	4438	O	ILE	467	49.479	75.505	62.119	1.00	0.00	O
ATOM	4439	N	GLU	468	51.120	74.248	63.003	1.00	0.00	N
ATOM	4440	HN	GLU	468	52.093	73.948	62.940	1.00	0.00	H
ATOM	4441	CA	GLU	468	50.320	73.789	64.094	1.00	0.00	C
ATOM	4442	CB	GLU	468	51.128	72.938	65.086	1.00	0.00	C
ATOM	4443	CG	GLU	468	50.282	72.293	66.186	1.00	0.00	C
ATOM	4444	CD	GLU	468	51.203	71.410	67.018	1.00	0.00	C
ATOM	4445	OE1	GLU	468	52.429	71.408	66.731	1.00	0.00	O
ATOM	4446	OE2	GLU	468	50.695	70.727	67.947	1.00	0.00	O
ATOM	4447	C	GLU	468	49.832	75.014	64.787	1.00	0.00	C
ATOM	4448	O	GLU	468	48.643	75.155	65.064	1.00	0.00	O
ATOM	4449	N	LYS	469	50.738	75.975	65.021	1.00	0.00	N
ATOM	4450	HN	LYS	469	51.713	75.843	64.752	1.00	0.00	H
ATOM	4451	CA	LYS	469	50.318	77.186	65.652	1.00	0.00	C
ATOM	4452	CB	LYS	469	51.467	78.174	65.901	1.00	0.00	C
ATOM	4453	CG	LYS	469	50.955	79.606	66.033	1.00	0.00	C
ATOM	4454	CD	LYS	469	49.864	79.792	67.084	1.00	0.00	C
ATOM	4455	CE	LYS	469	49.095	81.096	66.875	1.00	0.00	C
ATOM	4456	NZ	LYS	469	47.797	81.041	67.577	1.00	0.00	N
ATOM	4457	HZ1	LYS	469	47.284	81.911	67.438	1.00	0.00	H
ATOM	4458	HZ2	LYS	469	47.908	80.818	68.566	1.00	0.00	H
ATOM	4459	HZ3	LYS	469	47.248	80.227	67.300	1.00	0.00	H
ATOM	4460	C	LYS	469	49.302	77.869	64.789	1.00	0.00	C
ATOM	4461	O	LYS	469	48.261	78.307	65.275	1.00	0.00	O
ATOM	4462	N	ALA	470	49.547	77.927	63.469	1.00	0.00	N
ATOM	4463	HN	ALA	470	50.351	77.438	63.077	1.00	0.00	H
ATOM	4464	CA	ALA	470	48.677	78.677	62.613	1.00	0.00	C
ATOM	4465	CB	ALA	470	49.095	78.585	61.136	1.00	0.00	C
ATOM	4466	C	ALA	470	47.285	78.137	62.715	1.00	0.00	C
ATOM	4467	O	ALA	470	46.336	78.876	62.970	1.00	0.00	O
ATOM	4468	N	VAL	471	47.147	76.809	62.606	1.00	0.00	N
ATOM	4469	HN	VAL	471	47.991	76.240	62.535	1.00	0.00	H
ATOM	4470	CA	VAL	471	45.878	76.146	62.584	1.00	0.00	C
ATOM	4471	CB	VAL	471	46.119	74.663	62.641	1.00	0.00	C
ATOM	4472	CG1	VAL	471	44.799	73.890	62.628	1.00	0.00	C
ATOM	4473	CG2	VAL	471	47.088	74.291	61.512	1.00	0.00	C
ATOM	4474	C	VAL	471	45.139	76.514	63.825	1.00	0.00	C
ATOM	4475	O	VAL	471	44.030	77.044	63.774	1.00	0.00	O
ATOM	4476	N	LYS	472	45.791	76.321	64.981	1.00	0.00	N
ATOM	4477	HN	LYS	472	46.765	76.020	64.963	1.00	0.00	H
ATOM	4478	CA	LYS	472	45.142	76.531	66.238	1.00	0.00	C
ATOM	4479	CB	LYS	472	46.086	76.336	67.435	1.00	0.00	C
ATOM	4480	CG	LYS	472	46.672	74.927	67.527	1.00	0.00	C
ATOM	4481	CD	LYS	472	47.819	74.810	68.531	1.00	0.00	C
ATOM	4482	CE	LYS	472	48.489	73.436	68.534	1.00	0.00	C
ATOM	4483	NZ	LYS	472	47.489	72.380	68.803	1.00	0.00	N
ATOM	4484	HZ1	LYS	472	47.936	71.463	68.805	1.00	0.00	H
ATOM	4485	HZ2	LYS	472	46.707	72.421	68.150	1.00	0.00	H
ATOM	4486	HZ3	LYS	472	46.974	72.554	69.666	1.00	0.00	H
ATOM	4487	C	LYS	472	44.656	77.943	66.287	1.00	0.00	C
ATOM	4488	O	LYS	472	43.574	78.212	66.805	1.00	0.00	O
ATOM	4489	N	GLU	473	45.438	78.891	65.743	1.00	0.00	N
ATOM	4490	HN	GLU	473	46.312	78.636	65.282	1.00	0.00	H
ATOM	4491	CA	GLU	473	45.031	80.267	65.817	1.00	0.00	C
ATOM	4492	CB	GLU	473	46.076	81.226	65.230	1.00	0.00	C
ATOM	4493	CG	GLU	473	45.826	82.686	65.607	1.00	0.00	C
ATOM	4494	CD	GLU	473	46.972	83.517	65.051	1.00	0.00	C
ATOM	4495	OE1	GLU	473	48.132	83.301	65.493	1.00	0.00	O
ATOM	4496	OE2	GLU	473	46.702	84.378	64.173	1.00	0.00	O
ATOM	4497	C	GLU	473	43.751	80.454	65.050	1.00	0.00	C
ATOM	4498	O	GLU	473	42.848	81.176	65.467	1.00	0.00	O
ATOM	4499	N	ALA	474	43.686	79.801	63.883	1.00	0.00	N
ATOM	4500	HN	ALA	474	44.526	79.272	63.651	1.00	0.00	H
ATOM	4501	CA	ALA	474	42.641	79.714	62.899	1.00	0.00	C
ATOM	4502	CB	ALA	474	43.119	79.115	61.564	1.00	0.00	C
ATOM	4503	C	ALA	474	41.486	78.888	63.388	1.00	0.00	C
ATOM	4504	O	ALA	474	40.623	78.540	62.591	1.00	0.00	O
ATOM	4505	N	ASN	475	41.584	78.316	64.602	1.00	0.00	N
ATOM	4506	HN	ASN	475	42.431	78.493	65.141	1.00	0.00	H
ATOM	4507	CA	ASN	475	40.575	77.469	65.197	1.00	0.00	C
ATOM	4508	CB	ASN	475	39.237	78.138	65.611	1.00	0.00	C
ATOM	4509	CG	ASN	475	38.342	78.513	64.434	1.00	0.00	C
ATOM	4510	OD1	ASN	475	38.584	79.488	63.730	1.00	0.00	O
ATOM	4511	ND2	ASN	475	37.242	77.737	64.238	1.00	0.00	N

ATOM	4512	1HD2	ASN	475	37.041	76.926	64.823	1.00	0.00	H
ATOM	4513	2HD2	ASN	475	36.644	77.988	63.451	1.00	0.00	H
ATOM	4514	C	ASN	475	40.297	76.323	64.276	1.00	0.00	C
ATOM	4515	O	ASN	475	39.156	75.893	64.120	1.00	0.00	O
ATOM	4516	N	ALA	476	41.335	75.920	63.520	1.00	0.00	N
ATOM	4517	HN	ALA	476	42.177	76.494	63.564	1.00	0.00	H
ATOM	4518	CA	ALA	476	41.390	74.771	62.658	1.00	0.00	C
ATOM	4519	CB	ALA	476	42.334	74.973	61.463	1.00	0.00	C
ATOM	4520	C	ALA	476	41.753	73.506	63.382	1.00	0.00	C
ATOM	4521	O	ALA	476	41.403	72.404	62.965	1.00	0.00	O
ATOM	4522	N	TYR	477	42.498	73.645	64.490	1.00	0.00	N
ATOM	4523	HN	TYR	477	42.594	74.580	64.886	1.00	0.00	H
ATOM	4524	CA	TYR	477	43.168	72.563	65.154	1.00	0.00	C
ATOM	4525	CB	TYR	477	43.927	73.069	66.396	1.00	0.00	C
ATOM	4526	CG	TYR	477	44.636	71.937	67.050	1.00	0.00	C
ATOM	4527	CD1	TYR	477	45.659	71.284	66.401	1.00	0.00	C
ATOM	4528	CD2	TYR	477	44.305	71.557	68.329	1.00	0.00	C
ATOM	4529	CE1	TYR	477	46.322	70.245	67.010	1.00	0.00	C
ATOM	4530	CE2	TYR	477	44.966	70.520	68.943	1.00	0.00	C
ATOM	4531	CZ	TYR	477	45.974	69.860	68.282	1.00	0.00	C
ATOM	4532	OH	TYR	477	46.653	68.795	68.912	1.00	0.00	O
ATOM	4533	HH	TYR	477	47.350	68.339	68.455	1.00	0.00	H
ATOM	4534	C	TYR	477	42.244	71.440	65.530	1.00	0.00	C
ATOM	4535	O	TYR	477	42.640	70.281	65.430	1.00	0.00	O
ATOM	4536	N	ASP	478	41.013	71.718	65.997	1.00	0.00	N
ATOM	4537	HN	ASP	478	40.688	72.684	66.039	1.00	0.00	H
ATOM	4538	CA	ASP	478	40.156	70.647	66.437	1.00	0.00	C
ATOM	4539	CB	ASP	478	38.870	71.165	67.110	1.00	0.00	C
ATOM	4540	CG	ASP	478	38.093	72.069	66.154	1.00	0.00	C
ATOM	4541	OD1	ASP	478	38.675	72.533	65.139	1.00	0.00	O
ATOM	4542	OD2	ASP	478	36.897	72.328	66.446	1.00	0.00	O
ATOM	4543	C	ASP	478	39.771	69.665	65.356	1.00	0.00	C
ATOM	4544	O	ASP	478	40.040	68.471	65.485	1.00	0.00	O
ATOM	4545	N	PHE	479	39.168	70.125	64.242	1.00	0.00	N
ATOM	4546	HN	PHE	479	39.054	71.130	64.109	1.00	0.00	H
ATOM	4547	CA	PHE	479	38.684	69.215	63.239	1.00	0.00	C
ATOM	4548	CB	PHE	479	37.799	69.865	62.155	1.00	0.00	C
ATOM	4549	CG	PHE	479	38.543	70.894	61.372	1.00	0.00	C
ATOM	4550	CD1	PHE	479	39.421	70.530	60.377	1.00	0.00	C
ATOM	4551	CD2	PHE	479	38.333	72.233	61.615	1.00	0.00	C
ATOM	4552	CE1	PHE	479	40.092	71.486	59.650	1.00	0.00	C
ATOM	4553	CE2	PHE	479	39.000	73.193	60.890	1.00	0.00	C
ATOM	4554	CZ	PHE	479	39.884	72.820	59.906	1.00	0.00	C
ATOM	4555	C	PHE	479	39.827	68.514	62.587	1.00	0.00	C
ATOM	4556	O	PHE	479	39.744	67.329	62.268	1.00	0.00	O
ATOM	4557	N	ILE	480	40.940	69.230	62.376	1.00	0.00	N
ATOM	4558	HN	ILE	480	40.978	70.209	62.660	1.00	0.00	H
ATOM	4559	CA	ILE	480	42.074	68.623	61.753	1.00	0.00	C
ATOM	4560	CB	ILE	480	43.225	69.578	61.544	1.00	0.00	C
ATOM	4561	CG1	ILE	480	43.724	70.208	62.862	1.00	0.00	C
ATOM	4562	CG2	ILE	480	42.780	70.607	60.492	1.00	0.00	C
ATOM	4563	CD1	ILE	480	44.613	69.314	63.726	1.00	0.00	C
ATOM	4564	C	ILE	480	42.492	67.471	62.605	1.00	0.00	C
ATOM	4565	O	ILE	480	42.980	66.470	62.087	1.00	0.00	O
ATOM	4566	N	MET	481	42.383	67.611	63.940	1.00	0.00	N
ATOM	4567	HN	MET	481	42.043	68.491	64.327	1.00	0.00	H
ATOM	4568	CA	MET	481	42.738	66.540	64.825	1.00	0.00	C
ATOM	4569	CB	MET	481	42.776	66.977	66.295	1.00	0.00	C
ATOM	4570	CG	MET	481	43.931	67.930	66.583	1.00	0.00	C
ATOM	4571	SD	MET	481	45.555	67.204	66.219	1.00	0.00	S
ATOM	4572	CE	MET	481	45.374	65.840	67.405	1.00	0.00	C
ATOM	4573	C	MET	481	41.778	65.388	64.743	1.00	0.00	C
ATOM	4574	O	MET	481	42.196	64.237	64.625	1.00	0.00	O
ATOM	4575	N	LYS	482	40.458	65.669	64.796	1.00	0.00	N
ATOM	4576	HN	LYS	482	40.157	66.643	64.814	1.00	0.00	H
ATOM	4577	CA	LYS	482	39.465	64.627	64.828	1.00	0.00	C
ATOM	4578	CB	LYS	482	38.037	65.164	65.037	1.00	0.00	C
ATOM	4579	CG	LYS	482	37.018	64.081	65.405	1.00	0.00	C
ATOM	4580	CD	LYS	482	36.794	63.024	64.322	1.00	0.00	C
ATOM	4581	CE	LYS	482	35.940	61.842	64.788	1.00	0.00	C
ATOM	4582	NZ	LYS	482	34.582	62.302	65.157	1.00	0.00	N
ATOM	4583	HZ1	LYS	482	34.013	61.514	65.467	1.00	0.00	H
ATOM	4584	HZ2	LYS	482	34.136	62.818	64.398	1.00	0.00	H
ATOM	4585	HZ3	LYS	482	34.609	63.049	65.851	1.00	0.00	H

ATOM	4586	C	LYS	482	39.495	63.900	63.531	1.00	0.00	C
ATOM	4587	O	LYS	482	39.452	62.671	63.494	1.00	0.00	O
ATOM	4588	N	LEU	483	39.606	64.665	62.433	1.00	0.00	N
ATOM	4589	HN	LEU	483	39.663	65.678	62.539	1.00	0.00	H
ATOM	4590	CA	LEU	483	39.646	64.103	61.121	1.00	0.00	C
ATOM	4591	CB	LEU	483	39.947	65.169	60.050	1.00	0.00	C
ATOM	4592	CG	LEU	483	40.269	64.628	58.645	1.00	0.00	C
ATOM	4593	CD1	LEU	483	39.112	63.817	58.047	1.00	0.00	C
ATOM	4594	CD2	LEU	483	40.727	65.772	57.725	1.00	0.00	C
ATOM	4595	C	LEU	483	40.746	63.098	61.123	1.00	0.00	C
ATOM	4596	O	LEU	483	41.758	63.253	61.804	1.00	0.00	O
ATOM	4597	N	PRO	484	40.539	62.046	60.387	1.00	0.00	N
ATOM	4598	CA	PRO	484	41.501	60.985	60.360	1.00	0.00	C
ATOM	4599	CD	PRO	484	39.196	61.578	60.088	1.00	0.00	C
ATOM	4600	CB	PRO	484	40.830	59.840	59.608	1.00	0.00	C
ATOM	4601	CG	PRO	484	39.332	60.060	59.885	1.00	0.00	C
ATOM	4602	C	PRO	484	42.720	61.498	59.707	1.00	0.00	C
ATOM	4603	O	PRO	484	42.646	62.603	59.194	1.00	0.00	O
ATOM	4604	N	HIS	485	43.844	60.768	59.822	1.00	0.00	N
ATOM	4605	HN	HIS	485	43.792	59.956	60.437	1.00	0.00	H
ATOM	4606	CA	HIS	485	45.111	60.998	59.180	1.00	0.00	C
ATOM	4607	ND1	HIS	485	45.173	58.712	56.776	1.00	0.00	N
ATOM	4608	HD1	HIS	485	46.141	58.541	57.050	1.00	0.00	H
ATOM	4609	CG	HIS	485	44.452	59.868	56.983	1.00	0.00	C
ATOM	4610	CB	HIS	485	44.999	61.097	57.646	1.00	0.00	C
ATOM	4611	NE2	HIS	485	43.150	58.361	55.921	1.00	0.00	N
ATOM	4612	HE2	HIS	485	42.353	57.919	55.462	1.00	0.00	H
ATOM	4613	CD2	HIS	485	43.219	59.635	56.455	1.00	0.00	C
ATOM	4614	CE1	HIS	485	44.347	57.845	56.138	1.00	0.00	C
ATOM	4615	C	HIS	485	45.785	62.261	59.632	1.00	0.00	C
ATOM	4616	O	HIS	485	46.959	62.451	59.320	1.00	0.00	O
ATOM	4617	N	LYS	486	45.118	63.127	60.423	1.00	0.00	N
ATOM	4618	HN	LYS	486	44.139	62.960	60.657	1.00	0.00	H
ATOM	4619	CA	LYS	486	45.800	64.291	60.935	1.00	0.00	C
ATOM	4620	CB	LYS	486	47.135	63.938	61.616	1.00	0.00	C
ATOM	4621	CG	LYS	486	47.654	65.010	62.573	1.00	0.00	C
ATOM	4622	CD	LYS	486	48.710	64.478	63.545	1.00	0.00	C
ATOM	4623	CE	LYS	486	49.108	65.480	64.631	1.00	0.00	C
ATOM	4624	NZ	LYS	486	49.914	64.802	65.672	1.00	0.00	N
ATOM	4625	HZ1	LYS	486	50.179	65.470	66.396	1.00	0.00	H
ATOM	4626	HZ2	LYS	486	50.724	64.323	65.278	1.00	0.00	H
ATOM	4627	HZ3	LYS	486	49.434	63.989	66.058	1.00	0.00	H
ATOM	4628	C	LYS	486	46.030	65.335	59.871	1.00	0.00	C
ATOM	4629	O	LYS	486	45.210	65.564	58.988	1.00	0.00	O
ATOM	4630	N	PHE	487	47.160	66.058	59.979	1.00	0.00	N
ATOM	4631	HN	PHE	487	47.791	65.843	60.751	1.00	0.00	H
ATOM	4632	CA	PHE	487	47.538	67.115	59.077	1.00	0.00	C
ATOM	4633	CB	PHE	487	48.785	67.890	59.541	1.00	0.00	C
ATOM	4634	CG	PHE	487	48.418	68.676	60.756	1.00	0.00	C
ATOM	4635	CD1	PHE	487	47.716	69.855	60.634	1.00	0.00	C
ATOM	4636	CD2	PHE	487	48.780	68.249	62.014	1.00	0.00	C
ATOM	4637	CE1	PHE	487	47.374	70.592	61.743	1.00	0.00	C
ATOM	4638	CE2	PHE	487	48.440	68.982	63.129	1.00	0.00	C
ATOM	4639	CZ	PHE	487	47.735	70.155	62.995	1.00	0.00	C
ATOM	4640	C	PHE	487	47.826	66.541	57.732	1.00	0.00	C
ATOM	4641	O	PHE	487	47.633	67.204	56.715	1.00	0.00	O
ATOM	4642	N	ASP	488	48.334	65.297	57.730	1.00	0.00	N
ATOM	4643	HN	ASP	488	48.438	64.850	58.641	1.00	0.00	H
ATOM	4644	CA	ASP	488	48.747	64.526	56.593	1.00	0.00	C
ATOM	4645	CB	ASP	488	49.379	63.189	56.999	1.00	0.00	C
ATOM	4646	CG	ASP	488	50.654	63.510	57.758	1.00	0.00	C
ATOM	4647	OD1	ASP	488	51.310	64.529	57.416	1.00	0.00	O
ATOM	4648	OD2	ASP	488	50.979	62.745	58.704	1.00	0.00	O
ATOM	4649	C	ASP	488	47.563	64.199	55.746	1.00	0.00	C
ATOM	4650	O	ASP	488	47.732	63.771	54.605	1.00	0.00	O
ATOM	4651	N	THR	489	46.340	64.328	56.299	1.00	0.00	N
ATOM	4652	HN	THR	489	46.252	64.682	57.252	1.00	0.00	H
ATOM	4653	CA	THR	489	45.161	63.973	55.563	1.00	0.00	C
ATOM	4654	CB	THR	489	43.894	64.435	56.173	1.00	0.00	C
ATOM	4655	OG1	THR	489	43.873	63.986	57.499	1.00	0.00	O
ATOM	4656	HG1	THR	489	44.610	64.363	57.964	1.00	0.00	H
ATOM	4657	CG2	THR	489	42.699	63.824	55.419	1.00	0.00	C
ATOM	4658	C	THR	489	45.190	64.704	54.268	1.00	0.00	C
ATOM	4659	O	THR	489	45.823	65.751	54.156	1.00	0.00	O

ATOM	4660	N	LEU	490	44.497	64.131	53.266	1.00	0.00	N
ATOM	4661	HN	LEU	490	43.984	63.274	53.474	1.00	0.00	H
ATOM	4662	CA	LEU	490	44.429	64.639	51.927	1.00	0.00	C
ATOM	4663	CB	LEU	490	44.178	63.579	50.856	1.00	0.00	C
ATOM	4664	CG	LEU	490	45.250	62.511	50.681	1.00	0.00	C
ATOM	4665	CD1	LEU	490	45.444	61.680	51.960	1.00	0.00	C
ATOM	4666	CD2	LEU	490	44.889	61.653	49.464	1.00	0.00	C
ATOM	4667	C	LEU	490	43.212	65.474	51.770	1.00	0.00	C
ATOM	4668	O	LEU	490	42.546	65.845	52.737	1.00	0.00	O
ATOM	4669	N	VAL	491	42.936	65.844	50.499	1.00	0.00	N
ATOM	4670	HN	VAL	491	43.574	65.623	49.735	1.00	0.00	H
ATOM	4671	CA	VAL	491	41.724	66.553	50.264	1.00	0.00	C
ATOM	4672	CB	VAL	491	41.956	68.027	50.094	1.00	0.00	C
ATOM	4673	CG1	VAL	491	40.610	68.719	49.837	1.00	0.00	C
ATOM	4674	CG2	VAL	491	42.686	68.549	51.342	1.00	0.00	C
ATOM	4675	C	VAL	491	41.070	66.025	49.017	1.00	0.00	C
ATOM	4676	O	VAL	491	41.072	66.706	47.995	1.00	0.00	O
ATOM	4677	N	GLY	492	40.578	64.766	49.068	1.00	0.00	N
ATOM	4678	HN	GLY	492	40.884	64.201	49.860	1.00	0.00	H
ATOM	4679	CA	GLY	492	39.675	64.119	48.144	1.00	0.00	C
ATOM	4680	C	GLY	492	39.610	64.754	46.785	1.00	0.00	C
ATOM	4681	O	GLY	492	38.515	65.071	46.321	1.00	0.00	O
ATOM	4682	N	GLU	493	40.744	64.922	46.086	1.00	0.00	N
ATOM	4683	HN	GLU	493	41.637	64.635	46.486	1.00	0.00	H
ATOM	4684	CA	GLU	493	40.700	65.506	44.775	1.00	0.00	C
ATOM	4685	CB	GLU	493	40.161	64.543	43.700	1.00	0.00	C
ATOM	4686	CG	GLU	493	41.124	63.401	43.369	1.00	0.00	C
ATOM	4687	CD	GLU	493	42.197	63.944	42.435	1.00	0.00	C
ATOM	4688	OE1	GLU	493	41.834	64.368	41.305	1.00	0.00	O
ATOM	4689	OE2	GLU	493	43.391	63.944	42.836	1.00	0.00	O
ATOM	4690	C	GLU	493	39.916	66.786	44.703	1.00	0.00	C
ATOM	4691	O	GLU	493	38.741	66.805	44.343	1.00	0.00	O
ATOM	4692	N	ARG	494	40.562	67.891	45.118	1.00	0.00	N
ATOM	4693	HN	ARG	494	41.501	67.769	45.496	1.00	0.00	H
ATOM	4694	CA	ARG	494	40.040	69.226	45.073	1.00	0.00	C
ATOM	4695	CB	ARG	494	38.925	69.529	44.053	1.00	0.00	C
ATOM	4696	CG	ARG	494	38.923	71.024	43.692	1.00	0.00	C
ATOM	4697	CD	ARG	494	37.583	71.605	43.237	1.00	0.00	C
ATOM	4698	NE	ARG	494	37.038	72.385	44.385	1.00	0.00	N
ATOM	4699	HE	ARG	494	36.426	71.919	45.055	1.00	0.00	H
ATOM	4700	CZ	ARG	494	37.336	73.708	44.564	1.00	0.00	C
ATOM	4701	NH1	ARG	494	38.002	74.428	43.614	1.00	0.00	N
ATOM	4702	1HH1	ARG	494	38.224	75.415	43.747	1.00	0.00	H
ATOM	4703	2HH1	ARG	494	38.283	73.975	42.744	1.00	0.00	H
ATOM	4704	NH2	ARG	494	36.960	74.314	45.727	1.00	0.00	N
ATOM	4705	1HH2	ARG	494	37.182	75.301	45.860	1.00	0.00	H
ATOM	4706	2HH2	ARG	494	36.462	73.776	46.437	1.00	0.00	H
ATOM	4707	C	ARG	494	39.518	69.494	46.415	1.00	0.00	C
ATOM	4708	O	ARG	494	39.597	68.654	47.301	1.00	0.00	O
ATOM	4709	N	GLY	495	38.919	70.671	46.558	1.00	0.00	N
ATOM	4710	HN	GLY	495	38.831	71.256	45.727	1.00	0.00	H
ATOM	4711	CA	GLY	495	38.390	71.181	47.777	1.00	0.00	C
ATOM	4712	C	GLY	495	37.294	70.295	48.278	1.00	0.00	C
ATOM	4713	O	GLY	495	36.714	70.612	49.310	1.00	0.00	O
ATOM	4714	N	ALA	496	36.849	69.267	47.520	1.00	0.00	N
ATOM	4715	HN	ALA	496	37.296	69.001	46.642	1.00	0.00	H
ATOM	4716	CA	ALA	496	35.695	68.572	48.043	1.00	0.00	C
ATOM	4717	CB	ALA	496	34.755	68.095	46.924	1.00	0.00	C
ATOM	4718	C	ALA	496	35.980	67.361	48.895	1.00	0.00	C
ATOM	4719	O	ALA	496	35.937	66.236	48.401	1.00	0.00	O
ATOM	4720	N	GLN	497	36.456	67.525	50.148	1.00	0.00	N
ATOM	4721	HN	GLN	497	36.883	68.416	50.403	1.00	0.00	H
ATOM	4722	CA	GLN	497	36.379	66.479	51.135	1.00	0.00	C
ATOM	4723	CB	GLN	497	37.775	66.087	51.647	1.00	0.00	C
ATOM	4724	CG	GLN	497	37.822	64.769	52.421	1.00	0.00	C
ATOM	4725	CD	GLN	497	39.271	64.298	52.404	1.00	0.00	C
ATOM	4726	OE1	GLN	497	40.109	64.871	51.710	1.00	0.00	O
ATOM	4727	NE2	GLN	497	39.579	63.219	53.172	1.00	0.00	N
ATOM	4728	1HE2	GLN	497	40.549	62.904	53.161	1.00	0.00	H
ATOM	4729	2HE2	GLN	497	38.884	62.744	53.748	1.00	0.00	H
ATOM	4730	C	GLN	497	35.495	66.876	52.299	1.00	0.00	C
ATOM	4731	O	GLN	497	34.755	66.069	52.864	1.00	0.00	O
ATOM	4732	N	LEU	498	35.586	68.179	52.677	1.00	0.00	N
ATOM	4733	HN	LEU	498	36.045	68.826	52.036	1.00	0.00	H

ATOM	4734	CA	LEU	498	35.079	68.714	53.922	1.00	0.00	C
ATOM	4735	CB	LEU	498	36.176	69.380	54.774	1.00	0.00	C
ATOM	4736	CG	LEU	498	37.418	68.532	55.104	1.00	0.00	C
ATOM	4737	CD1	LEU	498	37.084	67.364	56.039	1.00	0.00	C
ATOM	4738	CD2	LEU	498	38.165	68.103	53.830	1.00	0.00	C
ATOM	4739	C	LEU	498	34.137	69.856	53.686	1.00	0.00	C
ATOM	4740	O	LEU	498	33.934	70.320	52.566	1.00	0.00	O
ATOM	4741	N	SER	499	33.558	70.357	54.799	1.00	0.00	N
ATOM	4742	HN	SER	499	33.794	69.945	55.702	1.00	0.00	H
ATOM	4743	CA	SER	499	32.626	71.444	54.762	1.00	0.00	C
ATOM	4744	CB	SER	499	31.908	71.672	56.100	1.00	0.00	C
ATOM	4745	OG	SER	499	32.850	72.051	57.092	1.00	0.00	O
ATOM	4746	HG	SER	499	32.406	72.192	57.920	1.00	0.00	H
ATOM	4747	C	SER	499	33.347	72.707	54.420	1.00	0.00	C
ATOM	4748	O	SER	499	34.463	72.964	54.871	1.00	0.00	O
ATOM	4749	N	GLY	500	32.653	73.574	53.662	1.00	0.00	N
ATOM	4750	HN	GLY	500	31.692	73.338	53.414	1.00	0.00	H
ATOM	4751	CA	GLY	500	33.193	74.811	53.185	1.00	0.00	C
ATOM	4752	C	GLY	500	33.615	75.585	54.380	1.00	0.00	C
ATOM	4753	O	GLY	500	34.538	76.398	54.319	1.00	0.00	O
ATOM	4754	N	GLY	501	32.912	75.375	55.504	1.00	0.00	N
ATOM	4755	HN	GLY	501	32.154	74.693	55.532	1.00	0.00	H
ATOM	4756	CA	GLY	501	33.260	76.137	56.659	1.00	0.00	C
ATOM	4757	C	GLY	501	34.692	75.860	57.004	1.00	0.00	C
ATOM	4758	O	GLY	501	35.486	76.787	57.136	1.00	0.00	O
ATOM	4759	N	GLN	502	35.076	74.573	57.104	1.00	0.00	N
ATOM	4760	HN	GLN	502	34.397	73.836	56.913	1.00	0.00	H
ATOM	4761	CA	GLN	502	36.416	74.209	57.473	1.00	0.00	C
ATOM	4762	CB	GLN	502	36.559	72.686	57.629	1.00	0.00	C
ATOM	4763	CG	GLN	502	35.713	72.130	58.777	1.00	0.00	C
ATOM	4764	CD	GLN	502	35.625	70.620	58.615	1.00	0.00	C
ATOM	4765	OE1	GLN	502	35.003	70.120	57.678	1.00	0.00	O
ATOM	4766	NE2	GLN	502	36.259	69.866	59.552	1.00	0.00	N
ATOM	4767	1HE2	GLN	502	36.774	70.280	60.329	1.00	0.00	H
ATOM	4768	2HE2	GLN	502	36.200	68.854	59.443	1.00	0.00	H
ATOM	4769	C	GLN	502	37.345	74.660	56.396	1.00	0.00	C
ATOM	4770	O	GLN	502	38.439	75.149	56.678	1.00	0.00	O
ATOM	4771	N	LYS	503	36.913	74.530	55.127	1.00	0.00	N
ATOM	4772	HN	LYS	503	35.974	74.178	54.939	1.00	0.00	H
ATOM	4773	CA	LYS	503	37.778	74.888	54.041	1.00	0.00	C
ATOM	4774	CB	LYS	503	37.101	74.775	52.664	1.00	0.00	C
ATOM	4775	CG	LYS	503	36.771	73.335	52.265	1.00	0.00	C
ATOM	4776	CD	LYS	503	35.898	73.235	51.014	1.00	0.00	C
ATOM	4777	CE	LYS	503	36.688	73.389	49.713	1.00	0.00	C
ATOM	4778	NZ	LYS	503	35.787	73.230	48.550	1.00	0.00	N
ATOM	4779	HZ1	LYS	503	36.314	73.333	47.683	1.00	0.00	H
ATOM	4780	HZ2	LYS	503	34.993	73.868	48.592	1.00	0.00	H
ATOM	4781	HZ3	LYS	503	35.273	72.350	48.583	1.00	0.00	H
ATOM	4782	C	LYS	503	38.186	76.311	54.230	1.00	0.00	C
ATOM	4783	O	LYS	503	39.375	76.620	54.301	1.00	0.00	O
ATOM	4784	N	GLN	504	37.200	77.189	54.456	1.00	0.00	N
ATOM	4785	HN	GLN	504	36.237	76.859	54.519	1.00	0.00	H
ATOM	4786	CA	GLN	504	37.481	78.586	54.611	1.00	0.00	C
ATOM	4787	CB	GLN	504	36.223	79.399	54.958	1.00	0.00	C
ATOM	4788	CD	GLN	504	36.488	80.892	55.164	1.00	0.00	C
ATOM	4789	CG	GLN	504	36.922	81.484	53.835	1.00	0.00	C
ATOM	4790	OE1	GLN	504	38.113	81.548	53.532	1.00	0.00	O
ATOM	4791	NE2	GLN	504	35.931	81.927	53.017	1.00	0.00	N
ATOM	4792	1HE2	GLN	504	34.944	81.874	53.268	1.00	0.00	H
ATOM	4793	2HE2	GLN	504	36.223	82.325	52.124	1.00	0.00	H
ATOM	4794	C	GLN	504	38.437	78.733	55.749	1.00	0.00	C
ATOM	4795	O	GLN	504	39.393	79.506	55.675	1.00	0.00	O
ATOM	4796	N	ARG	505	38.227	77.946	56.817	1.00	0.00	N
ATOM	4797	HN	ARG	505	37.471	77.261	56.800	1.00	0.00	H
ATOM	4798	CA	ARG	505	39.056	78.061	57.978	1.00	0.00	C
ATOM	4799	CB	ARG	505	38.622	77.091	59.088	1.00	0.00	C
ATOM	4800	CG	ARG	505	37.322	77.537	59.757	1.00	0.00	C
ATOM	4801	CD	ARG	505	36.464	76.395	60.298	1.00	0.00	C
ATOM	4802	NE	ARG	505	37.020	75.953	61.601	1.00	0.00	N
ATOM	4803	HE	ARG	505	37.945	76.258	61.903	1.00	0.00	H
ATOM	4804	CZ	ARG	505	36.268	75.130	62.386	1.00	0.00	C
ATOM	4805	NH1	ARG	505	35.016	74.761	61.983	1.00	0.00	N
ATOM	4806	1HH1	ARG	505	34.644	75.099	61.095	1.00	0.00	H
ATOM	4807	2HH1	ARG	505	34.453	74.145	62.570	1.00	0.00	H

ATOM	4808	NH2	ARG	505	36.765	74.678	63.573	1.00	0.00	N
ATOM	4809	1HH2	ARG	505	37.700	74.954	63.874	1.00	0.00	H
ATOM	4810	2HH2	ARG	505	36.202	74.062	64.160	1.00	0.00	H
ATOM	4811	C	ARG	505	40.469	77.763	57.611	1.00	0.00	C
ATOM	4812	O	ARG	505	41.365	78.550	57.910	1.00	0.00	O
ATOM	4813	N	ILE	506	40.690	76.661	56.871	1.00	0.00	N
ATOM	4814	HN	ILE	506	39.899	76.108	56.541	1.00	0.00	H
ATOM	4815	CA	ILE	506	42.027	76.254	56.541	1.00	0.00	C
ATOM	4816	CB	ILE	506	42.067	75.055	55.634	1.00	0.00	C
ATOM	4817	CG1	ILE	506	41.479	73.822	56.344	1.00	0.00	C
ATOM	4818	CG2	ILE	506	43.515	74.863	55.155	1.00	0.00	C
ATOM	4819	CD1	ILE	506	41.234	72.631	55.416	1.00	0.00	C
ATOM	4820	C	ILE	506	42.670	77.392	55.820	1.00	0.00	C
ATOM	4821	O	ILE	506	43.823	77.732	56.082	1.00	0.00	O
ATOM	4822	N	ALA	507	41.904	78.051	54.935	1.00	0.00	N
ATOM	4823	HN	ALA	507	40.926	77.790	54.813	1.00	0.00	H
ATOM	4824	CA	ALA	507	42.462	79.120	54.163	1.00	0.00	C
ATOM	4825	CB	ALA	507	41.431	79.773	53.228	1.00	0.00	C
ATOM	4826	C	ALA	507	42.962	80.180	55.085	1.00	0.00	C
ATOM	4827	O	ALA	507	44.093	80.641	54.954	1.00	0.00	O
ATOM	4828	N	ILE	508	42.162	80.529	56.102	1.00	0.00	N
ATOM	4829	HN	ILE	508	41.280	80.035	56.238	1.00	0.00	H
ATOM	4830	CA	ILE	508	42.524	81.583	57.002	1.00	0.00	C
ATOM	4831	CB	ILE	508	41.528	81.752	58.109	1.00	0.00	C
ATOM	4832	CG1	ILE	508	40.161	82.141	57.520	1.00	0.00	C
ATOM	4833	CG2	ILE	508	42.089	82.775	59.110	1.00	0.00	C
ATOM	4834	CD1	ILE	508	39.009	82.029	58.516	1.00	0.00	C
ATOM	4835	C	ILE	508	43.836	81.218	57.601	1.00	0.00	C
ATOM	4836	O	ILE	508	44.691	82.075	57.810	1.00	0.00	O
ATOM	4837	N	ALA	509	44.028	79.923	57.892	1.00	0.00	N
ATOM	4838	HN	ALA	509	43.282	79.244	57.737	1.00	0.00	H
ATOM	4839	CA	ALA	509	45.288	79.503	58.421	1.00	0.00	C
ATOM	4840	CB	ALA	509	45.333	77.994	58.715	1.00	0.00	C
ATOM	4841	C	ALA	509	46.353	79.790	57.404	1.00	0.00	C
ATOM	4842	O	ALA	509	47.394	80.352	57.743	1.00	0.00	O
ATOM	4843	N	ARG	510	46.112	79.461	56.114	1.00	0.00	N
ATOM	4844	HN	ARG	510	45.205	79.095	55.824	1.00	0.00	H
ATOM	4845	CA	ARG	510	47.178	79.645	55.163	1.00	0.00	C
ATOM	4846	CB	ARG	510	46.891	79.178	53.716	1.00	0.00	C
ATOM	4847	CG	ARG	510	45.812	79.947	52.952	1.00	0.00	C
ATOM	4848	CD	ARG	510	45.730	79.578	51.470	1.00	0.00	C
ATOM	4849	NE	ARG	510	45.199	78.190	51.382	1.00	0.00	N
ATOM	4850	HE	ARG	510	45.167	77.600	52.213	1.00	0.00	H
ATOM	4851	CZ	ARG	510	44.756	77.712	50.184	1.00	0.00	C
ATOM	4852	NH1	ARG	510	44.787	78.513	49.079	1.00	0.00	N
ATOM	4853	1HH1	ARG	510	45.140	79.467	49.149	1.00	0.00	H
ATOM	4854	2HH1	ARG	510	44.456	78.155	48.183	1.00	0.00	H
ATOM	4855	NH2	ARG	510	44.284	76.436	50.090	1.00	0.00	N
ATOM	4856	1HH2	ARG	510	44.261	75.838	50.916	1.00	0.00	H
ATOM	4857	2HH2	ARG	510	43.953	76.078	49.194	1.00	0.00	H
ATOM	4858	C	ARG	510	47.553	81.090	55.119	1.00	0.00	C
ATOM	4859	O	ARG	510	48.720	81.442	55.273	1.00	0.00	O
ATOM	4860	N	ALA	511	46.556	81.976	54.995	1.00	0.00	N
ATOM	4861	HN	ALA	511	45.594	81.644	54.925	1.00	0.00	H
ATOM	4862	CA	ALA	511	46.823	83.383	54.959	1.00	0.00	C
ATOM	4863	CB	ALA	511	45.548	84.229	54.817	1.00	0.00	C
ATOM	4864	C	ALA	511	47.463	83.743	56.258	1.00	0.00	C
ATOM	4865	O	ALA	511	48.301	84.640	56.328	1.00	0.00	O
ATOM	4866	N	LEU	512	47.070	83.039	57.331	1.00	0.00	N
ATOM	4867	HN	LEU	512	46.421	82.262	57.201	1.00	0.00	H
ATOM	4868	CA	LEU	512	47.532	83.343	58.652	1.00	0.00	C
ATOM	4869	CB	LEU	512	46.919	82.400	59.704	1.00	0.00	C
ATOM	4870	CG	LEU	512	47.098	82.853	61.166	1.00	0.00	C
ATOM	4871	CD1	LEU	512	48.571	82.874	61.604	1.00	0.00	C
ATOM	4872	CD2	LEU	512	46.378	84.189	61.407	1.00	0.00	C
ATOM	4873	C	LEU	512	49.029	83.201	58.703	1.00	0.00	C
ATOM	4874	O	LEU	512	49.702	83.999	59.352	1.00	0.00	O
ATOM	4875	N	VAL	513	49.586	82.163	58.042	1.00	0.00	N
ATOM	4876	HN	VAL	513	48.969	81.521	57.544	1.00	0.00	H
ATOM	4877	CA	VAL	513	51.005	81.914	58.003	1.00	0.00	C
ATOM	4878	CB	VAL	513	51.338	80.600	57.354	1.00	0.00	C
ATOM	4879	CG1	VAL	513	52.867	80.433	57.302	1.00	0.00	C
ATOM	4880	CG2	VAL	513	50.613	79.485	58.128	1.00	0.00	C
ATOM	4881	C	VAL	513	51.661	83.003	57.218	1.00	0.00	C

ATOM	4882	O	VAL	513	52.797	83.391	57.487	1.00	0.00	O
ATOM	4883	N	ARG	514	50.953	83.513	56.198	1.00	0.00	N
ATOM	4884	HN	ARG	514	50.033	83.128	55.981	1.00	0.00	H
ATOM	4885	CA	ARG	514	51.473	84.591	55.410	1.00	0.00	C
ATOM	4886	CB	ARG	514	50.526	84.996	54.270	1.00	0.00	C
ATOM	4887	CG	ARG	514	50.402	83.874	53.235	1.00	0.00	C
ATOM	4888	CD	ARG	514	49.532	84.199	52.021	1.00	0.00	C
ATOM	4889	NE	ARG	514	50.179	85.321	51.289	1.00	0.00	N
ATOM	4890	HE	ARG	514	49.838	86.274	51.415	1.00	0.00	H
ATOM	4891	CZ	ARG	514	51.225	85.079	50.451	1.00	0.00	C
ATOM	4892	NH1	ARG	514	51.752	83.823	50.363	1.00	0.00	N
ATOM	4893	1HH1	ARG	514	51.365	83.059	50.917	1.00	0.00	H
ATOM	4894	2HH1	ARG	514	52.535	83.642	49.735	1.00	0.00	H
ATOM	4895	NH2	ARG	514	51.743	86.100	49.710	1.00	0.00	N
ATOM	4896	1HH2	ARG	514	51.349	87.039	49.776	1.00	0.00	H
ATOM	4897	2HH2	ARG	514	52.526	85.919	49.082	1.00	0.00	H
ATOM	4898	C	ARG	514	51.703	85.760	56.336	1.00	0.00	C
ATOM	4899	O	ARG	514	52.642	86.529	56.140	1.00	0.00	O
ATOM	4900	N	ASN	515	50.839	85.910	57.366	1.00	0.00	N
ATOM	4901	HN	ASN	515	50.065	85.247	57.404	1.00	0.00	H
ATOM	4902	CA	ASN	515	50.884	86.905	58.424	1.00	0.00	C
ATOM	4903	CB	ASN	515	51.778	86.532	59.629	1.00	0.00	C
ATOM	4904	CG	ASN	515	53.241	86.450	59.215	1.00	0.00	C
ATOM	4905	OD1	ASN	515	53.613	85.683	58.328	1.00	0.00	O
ATOM	4906	ND2	ASN	515	54.104	87.260	59.886	1.00	0.00	N
ATOM	4907	1HD2	ASN	515	55.084	87.205	59.609	1.00	0.00	H
ATOM	4908	2HD2	ASN	515	53.796	87.896	60.621	1.00	0.00	H
ATOM	4909	C	ASN	515	51.210	88.304	57.966	1.00	0.00	C
ATOM	4910	O	ASN	515	52.324	88.799	58.123	1.00	0.00	O
ATOM	4911	N	PRO	516	50.213	88.923	57.388	1.00	0.00	N
ATOM	4912	CA	PRO	516	50.238	90.262	56.836	1.00	0.00	C
ATOM	4913	CD	PRO	516	49.060	88.168	56.933	1.00	0.00	C
ATOM	4914	CB	PRO	516	49.155	90.277	55.777	1.00	0.00	C
ATOM	4915	CG	PRO	516	48.163	89.205	56.250	1.00	0.00	C
ATOM	4916	C	PRO	516	49.969	91.373	57.813	1.00	0.00	C
ATOM	4917	O	PRO	516	49.834	91.142	59.011	1.00	0.00	O
ATOM	4918	N	LYS	517	50.077	92.615	57.310	1.00	0.00	N
ATOM	4919	HN	LYS	517	50.452	92.672	56.363	1.00	0.00	H
ATOM	4920	CA	LYS	517	49.739	93.874	57.917	1.00	0.00	C
ATOM	4921	CB	LYS	517	50.670	94.991	57.426	1.00	0.00	C
ATOM	4922	CG	LYS	517	52.149	94.657	57.637	1.00	0.00	C
ATOM	4923	CD	LYS	517	52.665	93.551	56.709	1.00	0.00	C
ATOM	4924	CE	LYS	517	54.111	93.116	56.962	1.00	0.00	C
ATOM	4925	NZ	LYS	517	54.178	92.212	58.133	1.00	0.00	N
ATOM	4926	HZ1	LYS	517	55.141	91.922	58.302	1.00	0.00	H
ATOM	4927	HZ2	LYS	517	53.552	91.413	58.033	1.00	0.00	H
ATOM	4928	HZ3	LYS	517	53.756	92.631	58.962	1.00	0.00	H
ATOM	4929	C	LYS	517	48.344	94.288	57.576	1.00	0.00	C
ATOM	4930	O	LYS	517	47.733	95.097	58.276	1.00	0.00	O
ATOM	4931	N	ILE	518	47.861	93.833	56.402	1.00	0.00	N
ATOM	4932	HN	ILE	518	48.413	93.186	55.839	1.00	0.00	H
ATOM	4933	CA	ILE	518	46.574	94.259	55.948	1.00	0.00	C
ATOM	4934	CB	ILE	518	46.658	95.151	54.749	1.00	0.00	C
ATOM	4935	CG1	ILE	518	47.529	96.365	55.107	1.00	0.00	C
ATOM	4936	CG2	ILE	518	45.236	95.540	54.316	1.00	0.00	C
ATOM	4937	CD1	ILE	518	47.920	97.221	53.909	1.00	0.00	C
ATOM	4938	C	ILE	518	45.823	93.022	55.600	1.00	0.00	C
ATOM	4939	O	ILE	518	46.415	92.031	55.178	1.00	0.00	O
ATOM	4940	N	LEU	519	44.496	93.030	55.812	1.00	0.00	N
ATOM	4941	HN	LEU	519	44.031	93.874	56.148	1.00	0.00	H
ATOM	4942	CA	LEU	519	43.745	91.841	55.561	1.00	0.00	C
ATOM	4943	CB	LEU	519	43.371	91.124	56.875	1.00	0.00	C
ATOM	4944	CG	LEU	519	42.837	89.683	56.739	1.00	0.00	C
ATOM	4945	CD1	LEU	519	42.507	89.094	58.119	1.00	0.00	C
ATOM	4946	CD2	LEU	519	41.660	89.581	55.760	1.00	0.00	C
ATOM	4947	C	LEU	519	42.499	92.248	54.838	1.00	0.00	C
ATOM	4948	O	LEU	519	41.750	93.105	55.306	1.00	0.00	O
ATOM	4949	N	LEU	520	42.256	91.640	53.659	1.00	0.00	N
ATOM	4950	HN	LEU	520	42.916	90.949	53.302	1.00	0.00	H
ATOM	4951	CA	LEU	520	41.081	91.955	52.903	1.00	0.00	C
ATOM	4952	CB	LEU	520	41.375	92.277	51.427	1.00	0.00	C
ATOM	4953	CG	LEU	520	42.244	93.532	51.218	1.00	0.00	C
ATOM	4954	CD1	LEU	520	43.616	93.375	51.892	1.00	0.00	C
ATOM	4955	CD2	LEU	520	42.365	93.886	49.725	1.00	0.00	C

ATOM	4956	C	LEU	520	40.204	90.747	52.909	1.00	0.00	C
ATOM	4957	O	LEU	520	40.653	89.631	52.652	1.00	0.00	O
ATOM	4958	N	LEU	521	38.913	90.935	53.228	1.00	0.00	N
ATOM	4959	HN	LEU	521	38.568	91.859	53.489	1.00	0.00	H
ATOM	4960	CA	LEU	521	38.033	89.804	53.192	1.00	0.00	C
ATOM	4961	CB	LEU	521	37.261	89.582	54.504	1.00	0.00	C
ATOM	4962	CG	LEU	521	38.171	89.351	55.725	1.00	0.00	C
ATOM	4963	CD1	LEU	521	38.928	90.634	56.107	1.00	0.00	C
ATOM	4964	CD2	LEU	521	37.388	88.734	56.895	1.00	0.00	C
ATOM	4965	C	LEU	521	37.024	90.098	52.122	1.00	0.00	C
ATOM	4966	O	LEU	521	36.211	91.010	52.258	1.00	0.00	O
ATOM	4967	N	ASP	522	37.042	89.330	51.016	1.00	0.00	N
ATOM	4968	HN	ASP	522	37.715	88.569	50.930	1.00	0.00	H
ATOM	4969	CA	ASP	522	36.108	89.591	49.962	1.00	0.00	C
ATOM	4970	CB	ASP	522	36.721	89.329	48.574	1.00	0.00	C
ATOM	4971	CG	ASP	522	35.879	90.017	47.509	1.00	0.00	C
ATOM	4972	OD1	ASP	522	34.791	90.550	47.855	1.00	0.00	O
ATOM	4973	OD2	ASP	522	36.326	90.027	46.331	1.00	0.00	O
ATOM	4974	C	ASP	522	34.944	88.665	50.146	1.00	0.00	C
ATOM	4975	O	ASP	522	34.843	87.624	49.498	1.00	0.00	O
ATOM	4976	N	GLU	523	34.015	89.041	51.043	1.00	0.00	N
ATOM	4977	HN	GLU	523	34.164	89.899	51.575	1.00	0.00	H
ATOM	4978	CA	GLU	523	32.818	88.277	51.280	1.00	0.00	C
ATOM	4979	CB	GLU	523	32.037	88.041	49.976	1.00	0.00	C
ATOM	4980	CG	GLU	523	31.606	89.323	49.259	1.00	0.00	C
ATOM	4981	CD	GLU	523	31.135	88.932	47.864	1.00	0.00	C
ATOM	4982	OE1	GLU	523	30.650	87.780	47.709	1.00	0.00	O
ATOM	4983	OE2	GLU	523	31.255	89.775	46.935	1.00	0.00	O
ATOM	4984	C	GLU	523	33.154	86.912	51.824	1.00	0.00	C
ATOM	4985	O	GLU	523	32.311	86.015	51.768	1.00	0.00	O
ATOM	4986	N	ALA	524	34.311	86.764	52.513	1.00	0.00	N
ATOM	4987	HN	ALA	524	34.817	87.591	52.828	1.00	0.00	H
ATOM	4988	CA	ALA	524	34.837	85.455	52.807	1.00	0.00	C
ATOM	4989	CB	ALA	524	36.062	85.519	53.733	1.00	0.00	C
ATOM	4990	C	ALA	524	33.834	84.542	53.470	1.00	0.00	C
ATOM	4991	O	ALA	524	33.425	83.567	52.851	1.00	0.00	O
ATOM	4992	N	THR	525	33.258	84.892	54.630	1.00	0.00	N
ATOM	4993	HN	THR	525	33.429	85.820	55.018	1.00	0.00	H
ATOM	4994	CA	THR	525	32.400	83.971	55.334	1.00	0.00	C
ATOM	4995	CB	THR	525	31.799	84.569	56.552	1.00	0.00	C
ATOM	4996	OG1	THR	525	32.802	84.968	57.469	1.00	0.00	O
ATOM	4997	HG1	THR	525	32.417	85.351	58.249	1.00	0.00	H
ATOM	4998	CG2	THR	525	30.911	83.495	57.168	1.00	0.00	C
ATOM	4999	C	THR	525	31.232	83.552	54.487	1.00	0.00	C
ATOM	5000	O	THR	525	30.730	82.441	54.643	1.00	0.00	O
ATOM	5001	N	SER	526	30.775	84.427	53.572	1.00	0.00	N
ATOM	5002	HN	SER	526	31.309	85.285	53.438	1.00	0.00	H
ATOM	5003	CA	SER	526	29.589	84.250	52.764	1.00	0.00	C
ATOM	5004	CB	SER	526	29.483	85.271	51.616	1.00	0.00	C
ATOM	5005	OG	SER	526	29.371	86.589	52.132	1.00	0.00	O
ATOM	5006	HG	SER	526	29.306	87.219	51.424	1.00	0.00	H
ATOM	5007	C	SER	526	29.475	82.894	52.143	1.00	0.00	C
ATOM	5008	O	SER	526	30.392	82.076	52.168	1.00	0.00	O
ATOM	5009	N	ALA	527	28.267	82.625	51.597	1.00	0.00	N
ATOM	5010	HN	ALA	527	27.541	83.339	51.657	1.00	0.00	H
ATOM	5011	CA	ALA	527	27.950	81.391	50.939	1.00	0.00	C
ATOM	5012	CB	ALA	527	28.694	81.204	49.605	1.00	0.00	C
ATOM	5013	C	ALA	527	28.328	80.275	51.851	1.00	0.00	C
ATOM	5014	O	ALA	527	28.978	79.320	51.433	1.00	0.00	O
ATOM	5015	N	LEU	528	27.945	80.388	53.137	1.00	0.00	N
ATOM	5016	HN	LEU	528	27.432	81.217	53.436	1.00	0.00	H
ATOM	5017	CA	LEU	528	28.246	79.362	54.096	1.00	0.00	C
ATOM	5018	CB	LEU	528	29.540	79.677	54.868	1.00	0.00	C
ATOM	5019	CG	LEU	528	30.059	78.542	55.766	1.00	0.00	C
ATOM	5020	CD1	LEU	528	30.472	77.313	54.939	1.00	0.00	C
ATOM	5021	CD2	LEU	528	31.186	79.044	56.686	1.00	0.00	C
ATOM	5022	C	LEU	528	27.082	79.348	55.048	1.00	0.00	C
ATOM	5023	O	LEU	528	26.314	80.305	55.098	1.00	0.00	O
ATOM	5024	N	ASP	529	26.893	78.270	55.838	1.00	0.00	N
ATOM	5025	HN	ASP	529	27.555	77.494	55.837	1.00	0.00	H
ATOM	5026	CA	ASP	529	25.725	78.250	56.684	1.00	0.00	C
ATOM	5027	CB	ASP	529	25.393	76.871	57.283	1.00	0.00	C
ATOM	5028	CG	ASP	529	26.464	76.495	58.287	1.00	0.00	C
ATOM	5029	OD1	ASP	529	26.427	77.077	59.401	1.00	0.00	O

ATOM	5030	OD2	ASP	529	27.318	75.625	57.971	1.00	0.00	O
ATOM	5031	C	ASP	529	25.898	79.261	57.793	1.00	0.00	C
ATOM	5032	O	ASP	529	27.013	79.700	58.065	1.00	0.00	O
ATOM	5033	N	THR	530	24.781	79.668	58.452	1.00	0.00	N
ATOM	5034	HN	THR	530	23.893	79.225	58.215	1.00	0.00	H
ATOM	5035	CA	THR	530	24.781	80.698	59.474	1.00	0.00	C
ATOM	5036	CB	THR	530	23.421	80.945	60.051	1.00	0.00	C
ATOM	5037	OG1	THR	530	22.512	81.305	59.023	1.00	0.00	O
ATOM	5038	HG1	THR	530	21.649	81.462	59.389	1.00	0.00	H
ATOM	5039	CG2	THR	530	23.537	82.091	61.070	1.00	0.00	C
ATOM	5040	C	THR	530	25.674	80.282	60.607	1.00	0.00	C
ATOM	5041	O	THR	530	26.587	81.016	60.976	1.00	0.00	O
ATOM	5042	N	GLU	531	25.493	79.059	61.143	1.00	0.00	N
ATOM	5043	HN	GLU	531	24.835	78.408	60.715	1.00	0.00	H
ATOM	5044	CA	GLU	531	26.226	78.670	62.319	1.00	0.00	C
ATOM	5045	CB	GLU	531	25.882	77.234	62.760	1.00	0.00	C
ATOM	5046	CG	GLU	531	26.940	76.552	63.633	1.00	0.00	C
ATOM	5047	CD	GLU	531	27.398	77.505	64.722	1.00	0.00	C
ATOM	5048	OE1	GLU	531	26.540	78.020	65.486	1.00	0.00	O
ATOM	5049	OE2	GLU	531	28.633	77.743	64.783	1.00	0.00	O
ATOM	5050	C	GLU	531	27.701	78.761	62.084	1.00	0.00	C
ATOM	5051	O	GLU	531	28.420	79.389	62.862	1.00	0.00	O
ATOM	5052	N	SER	532	28.189	78.164	60.989	1.00	0.00	N
ATOM	5053	HN	SER	532	27.547	77.703	60.344	1.00	0.00	H
ATOM	5054	CA	SER	532	29.590	78.159	60.705	1.00	0.00	C
ATOM	5055	CB	SER	532	29.908	77.366	59.431	1.00	0.00	C
ATOM	5056	OG	SER	532	29.199	77.927	58.337	1.00	0.00	O
ATOM	5057	HG	SER	532	29.396	77.436	57.548	1.00	0.00	H
ATOM	5058	C	SER	532	30.012	79.568	60.501	1.00	0.00	C
ATOM	5059	O	SER	532	31.051	79.969	61.019	1.00	0.00	O
ATOM	5060	N	GLU	533	29.163	80.372	59.825	1.00	0.00	N
ATOM	5061	HN	GLU	533	28.263	79.996	59.528	1.00	0.00	H
ATOM	5062	CA	GLU	533	29.480	81.733	59.510	1.00	0.00	C
ATOM	5063	CB	GLU	533	28.283	82.503	58.922	1.00	0.00	C
ATOM	5064	CG	GLU	533	28.519	84.011	58.794	1.00	0.00	C
ATOM	5065	CD	GLU	533	27.473	84.577	57.847	1.00	0.00	C
ATOM	5066	OE1	GLU	533	27.346	84.029	56.720	1.00	0.00	O
ATOM	5067	OE2	GLU	533	26.785	85.557	58.237	1.00	0.00	O
ATOM	5068	C	GLU	533	29.859	82.394	60.789	1.00	0.00	C
ATOM	5069	O	GLU	533	30.739	83.253	60.815	1.00	0.00	O
ATOM	5070	N	ALA	534	29.201	82.008	61.894	1.00	0.00	N
ATOM	5071	HN	ALA	534	28.448	81.322	61.846	1.00	0.00	H
ATOM	5072	CA	ALA	534	29.591	82.590	63.142	1.00	0.00	C
ATOM	5073	CB	ALA	534	28.699	82.142	64.311	1.00	0.00	C
ATOM	5074	C	ALA	534	30.999	82.187	63.477	1.00	0.00	C
ATOM	5075	O	ALA	534	31.865	83.039	63.660	1.00	0.00	O
ATOM	5076	N	VAL	535	31.291	80.872	63.459	1.00	0.00	N
ATOM	5077	HN	VAL	535	30.580	80.213	63.142	1.00	0.00	H
ATOM	5078	CA	VAL	535	32.574	80.366	63.872	1.00	0.00	C
ATOM	5079	CB	VAL	535	32.656	78.874	63.744	1.00	0.00	C
ATOM	5080	CG1	VAL	535	34.052	78.411	64.195	1.00	0.00	C
ATOM	5081	CG2	VAL	535	31.491	78.252	64.531	1.00	0.00	C
ATOM	5082	C	VAL	535	33.628	80.956	62.984	1.00	0.00	C
ATOM	5083	O	VAL	535	34.688	81.361	63.457	1.00	0.00	O
ATOM	5084	N	VAL	536	33.349	81.012	61.670	1.00	0.00	N
ATOM	5085	HN	VAL	536	32.434	80.691	61.353	1.00	0.00	H
ATOM	5086	CA	VAL	536	34.278	81.503	60.691	1.00	0.00	C
ATOM	5087	CB	VAL	536	33.743	81.390	59.293	1.00	0.00	C
ATOM	5088	CG1	VAL	536	34.742	82.049	58.328	1.00	0.00	C
ATOM	5089	CG2	VAL	536	33.467	79.906	58.993	1.00	0.00	C
ATOM	5090	C	VAL	536	34.557	82.947	60.950	1.00	0.00	C
ATOM	5091	O	VAL	536	35.711	83.370	60.983	1.00	0.00	O
ATOM	5092	N	GLN	537	33.503	83.745	61.176	1.00	0.00	N
ATOM	5093	HN	GLN	537	32.561	83.355	61.187	1.00	0.00	H
ATOM	5094	CA	GLN	537	33.701	85.144	61.402	1.00	0.00	C
ATOM	5095	CB	GLN	537	32.373	85.880	61.665	1.00	0.00	C
ATOM	5096	CG	GLN	537	32.480	87.407	61.698	1.00	0.00	C
ATOM	5097	CD	GLN	537	32.416	87.921	60.267	1.00	0.00	C
ATOM	5098	OE1	GLN	537	31.537	87.538	59.496	1.00	0.00	O
ATOM	5099	NE2	GLN	537	33.371	88.816	59.899	1.00	0.00	N
ATOM	5100	1HE2	GLN	537	34.100	89.134	60.538	1.00	0.00	H
ATOM	5101	2HE2	GLN	537	33.328	89.160	58.940	1.00	0.00	H
ATOM	5102	C	GLN	537	34.540	85.250	62.642	1.00	0.00	C
ATOM	5103	O	GLN	537	35.384	86.136	62.756	1.00	0.00	O

ATOM	5104	N	VAL	538	34.323	84.328	63.602	1.00	0.00	N
ATOM	5105	HN	VAL	538	33.633	83.597	63.427	1.00	0.00	H
ATOM	5106	CA	VAL	538	35.019	84.327	64.861	1.00	0.00	C
ATOM	5107	CB	VAL	538	34.618	83.176	65.737	1.00	0.00	C
ATOM	5108	CG1	VAL	538	35.532	83.164	66.973	1.00	0.00	C
ATOM	5109	CG2	VAL	538	33.126	83.315	66.079	1.00	0.00	C
ATOM	5110	C	VAL	538	36.499	84.217	64.643	1.00	0.00	C
ATOM	5111	O	VAL	538	37.272	84.961	65.242	1.00	0.00	O
ATOM	5112	N	ALA	539	36.936	83.275	63.788	1.00	0.00	N
ATOM	5113	HN	ALA	539	36.253	82.674	63.327	1.00	0.00	H
ATOM	5114	CA	ALA	539	38.332	83.086	63.502	1.00	0.00	C
ATOM	5115	CB	ALA	539	38.590	81.940	62.515	1.00	0.00	C
ATOM	5116	C	ALA	539	38.832	84.320	62.838	1.00	0.00	C
ATOM	5117	O	ALA	539	39.942	84.777	63.104	1.00	0.00	O
ATOM	5118	N	LEU	540	38.007	84.892	61.944	1.00	0.00	N
ATOM	5119	HN	LEU	540	37.084	84.491	61.779	1.00	0.00	H
ATOM	5120	CA	LEU	540	38.413	86.055	61.225	1.00	0.00	C
ATOM	5121	CB	LEU	540	37.310	86.582	60.287	1.00	0.00	C
ATOM	5122	CG	LEU	540	36.953	85.618	59.139	1.00	0.00	C
ATOM	5123	CD1	LEU	540	35.853	86.202	58.237	1.00	0.00	C
ATOM	5124	CD2	LEU	540	38.204	85.209	58.346	1.00	0.00	C
ATOM	5125	C	LEU	540	38.676	87.110	62.243	1.00	0.00	C
ATOM	5126	O	LEU	540	39.713	87.768	62.209	1.00	0.00	O
ATOM	5127	N	ASP	541	37.759	87.240	63.218	1.00	0.00	N
ATOM	5128	HN	ASP	541	36.980	86.583	63.248	1.00	0.00	H
ATOM	5129	CA	ASP	541	37.833	88.265	64.217	1.00	0.00	C
ATOM	5130	CB	ASP	541	36.674	88.177	65.225	1.00	0.00	C
ATOM	5131	CG	ASP	541	35.372	88.447	64.481	1.00	0.00	C
ATOM	5132	OD1	ASP	541	35.436	88.687	63.247	1.00	0.00	O
ATOM	5133	OD2	ASP	541	34.296	88.414	65.136	1.00	0.00	O
ATOM	5134	C	ASP	541	39.108	88.118	64.989	1.00	0.00	C
ATOM	5135	O	ASP	541	39.843	89.085	65.172	1.00	0.00	O
ATOM	5136	N	LYS	542	39.441	86.893	65.428	1.00	0.00	N
ATOM	5137	HN	LYS	542	38.855	86.088	65.206	1.00	0.00	H
ATOM	5138	CA	LYS	542	40.627	86.731	66.211	1.00	0.00	C
ATOM	5139	CB	LYS	542	40.880	85.285	66.677	1.00	0.00	C
ATOM	5140	CG	LYS	542	39.878	84.799	67.727	1.00	0.00	C
ATOM	5141	CD	LYS	542	40.122	83.361	68.189	1.00	0.00	C
ATOM	5142	CE	LYS	542	40.080	82.328	67.063	1.00	0.00	C
ATOM	5143	NZ	LYS	542	40.514	81.008	67.573	1.00	0.00	N
ATOM	5144	HZ1	LYS	542	40.486	80.319	66.822	1.00	0.00	H
ATOM	5145	HZ2	LYS	542	39.970	80.713	68.384	1.00	0.00	H
ATOM	5146	HZ3	LYS	542	41.431	81.052	68.018	1.00	0.00	H
ATOM	5147	C	LYS	542	41.789	87.158	65.373	1.00	0.00	C
ATOM	5148	O	LYS	542	42.821	87.561	65.902	1.00	0.00	O
ATOM	5149	N	ALA	543	41.694	86.965	64.046	1.00	0.00	N
ATOM	5150	HN	ALA	543	40.842	86.554	63.666	1.00	0.00	H
ATOM	5151	CA	ALA	543	42.759	87.321	63.146	1.00	0.00	C
ATOM	5152	CB	ALA	543	42.600	86.658	61.768	1.00	0.00	C
ATOM	5153	C	ALA	543	42.950	88.798	62.887	1.00	0.00	C
ATOM	5154	O	ALA	543	44.063	89.308	62.998	1.00	0.00	O
ATOM	5155	N	ARG	544	41.851	89.510	62.555	1.00	0.00	N
ATOM	5156	HN	ARG	544	40.944	89.074	62.720	1.00	0.00	H
ATOM	5157	CA	ARG	544	41.855	90.839	61.985	1.00	0.00	C
ATOM	5158	CB	ARG	544	40.460	91.287	61.515	1.00	0.00	C
ATOM	5159	CG	ARG	544	39.827	90.420	60.428	1.00	0.00	C
ATOM	5160	CD	ARG	544	38.637	91.106	59.753	1.00	0.00	C
ATOM	5161	NE	ARG	544	37.666	91.496	60.816	1.00	0.00	N
ATOM	5162	HE	ARG	544	37.786	92.379	61.312	1.00	0.00	H
ATOM	5163	CZ	ARG	544	36.618	90.681	61.131	1.00	0.00	C
ATOM	5164	NH1	ARG	544	36.459	89.490	60.484	1.00	0.00	N
ATOM	5165	1HH1	ARG	544	37.130	89.204	59.771	1.00	0.00	H
ATOM	5166	2HH1	ARG	544	35.676	88.881	60.719	1.00	0.00	H
ATOM	5167	NH2	ARG	544	35.720	91.064	62.086	1.00	0.00	N
ATOM	5168	1HH2	ARG	544	35.839	91.954	62.570	1.00	0.00	H
ATOM	5169	2HH2	ARG	544	34.937	90.455	62.321	1.00	0.00	H
ATOM	5170	C	ARG	544	42.336	91.975	62.819	1.00	0.00	C
ATOM	5171	O	ARG	544	43.132	92.744	62.309	1.00	0.00	O
ATOM	5172	N	LYS	545	41.929	92.132	64.093	1.00	0.00	N
ATOM	5173	HN	LYS	545	41.440	91.377	64.573	1.00	0.00	H
ATOM	5174	CA	LYS	545	42.191	93.381	64.776	1.00	0.00	C
ATOM	5175	CB	LYS	545	41.692	93.411	66.231	1.00	0.00	C
ATOM	5176	CG	LYS	545	40.180	93.597	66.367	1.00	0.00	C
ATOM	5177	CD	LYS	545	39.358	92.412	65.863	1.00	0.00	C

ATOM	5178	CE	LYS	545	37.852	92.626	66.019	1.00	0.00	C
ATOM	5179	NZ	LYS	545	37.524	92.838	67.447	1.00	0.00	N
ATOM	5180	HZ1	LYS	545	36.519	92.981	67.551	1.00	0.00	H
ATOM	5181	HZ2	LYS	545	38.065	93.600	67.857	1.00	0.00	H
ATOM	5182	HZ3	LYS	545	37.868	92.080	68.037	1.00	0.00	H
ATOM	5183	C	LYS	545	43.648	93.709	64.813	1.00	0.00	C
ATOM	5184	O	LYS	545	44.017	94.868	64.621	1.00	0.00	O
ATOM	5185	N	GLY	546	44.513	92.700	65.014	1.00	0.00	N
ATOM	5186	HN	GLY	546	44.160	91.748	65.109	1.00	0.00	H
ATOM	5187	CA	GLY	546	45.923	92.941	65.097	1.00	0.00	C
ATOM	5188	C	GLY	546	46.321	93.633	63.832	1.00	0.00	C
ATOM	5189	O	GLY	546	47.228	94.464	63.823	1.00	0.00	O
ATOM	5190	N	ARG	547	45.637	93.298	62.725	1.00	0.00	N
ATOM	5191	HN	ARG	547	44.873	92.627	62.802	1.00	0.00	H
ATOM	5192	CA	ARG	547	45.946	93.853	61.436	1.00	0.00	C
ATOM	5193	CB	ARG	547	46.038	92.766	60.357	1.00	0.00	C
ATOM	5194	CG	ARG	547	47.291	91.902	60.499	1.00	0.00	C
ATOM	5195	CD	ARG	547	47.244	90.590	59.715	1.00	0.00	C
ATOM	5196	NE	ARG	547	46.549	89.583	60.562	1.00	0.00	N
ATOM	5197	HE	ARG	547	45.566	89.361	60.402	1.00	0.00	H
ATOM	5198	CZ	ARG	547	47.247	88.960	61.557	1.00	0.00	C
ATOM	5199	NH1	ARG	547	48.532	89.332	61.821	1.00	0.00	N
ATOM	5200	1HH1	ARG	547	49.053	88.867	62.564	1.00	0.00	H
ATOM	5201	2HH1	ARG	547	48.967	90.073	61.271	1.00	0.00	H
ATOM	5202	NH2	ARG	547	46.666	87.969	62.292	1.00	0.00	N
ATOM	5203	1HH2	ARG	547	47.187	87.504	63.035	1.00	0.00	H
ATOM	5204	2HH2	ARG	547	45.705	87.691	62.095	1.00	0.00	H
ATOM	5205	C	ARG	547	44.931	94.882	60.969	1.00	0.00	C
ATOM	5206	O	ARG	547	43.773	94.931	61.366	1.00	0.00	O
ATOM	5207	N	THR	548	45.346	95.812	60.098	1.00	0.00	N
ATOM	5208	HN	THR	548	46.321	95.871	59.804	1.00	0.00	H
ATOM	5209	CA	THR	548	44.351	96.725	59.596	1.00	0.00	C
ATOM	5210	CB	THR	548	44.949	97.974	59.010	1.00	0.00	C
ATOM	5211	OG1	THR	548	43.930	98.832	58.519	1.00	0.00	O
ATOM	5212	HG1	THR	548	43.323	99.066	59.211	1.00	0.00	H
ATOM	5213	CG2	THR	548	45.931	97.595	57.890	1.00	0.00	C
ATOM	5214	C	THR	548	43.625	95.989	58.503	1.00	0.00	C
ATOM	5215	O	THR	548	44.284	95.420	57.636	1.00	0.00	O
ATOM	5216	N	THR	549	42.262	95.961	58.496	1.00	0.00	N
ATOM	5217	HN	THR	549	41.708	96.474	59.181	1.00	0.00	H
ATOM	5218	CA	THR	549	41.651	95.164	57.464	1.00	0.00	C
ATOM	5219	CB	THR	549	41.129	93.827	57.913	1.00	0.00	C
ATOM	5220	OG1	THR	549	39.961	93.996	58.694	1.00	0.00	O
ATOM	5221	HG1	THR	549	39.297	94.443	58.183	1.00	0.00	H
ATOM	5222	CG2	THR	549	42.203	93.104	58.739	1.00	0.00	C
ATOM	5223	C	THR	549	40.473	95.813	56.795	1.00	0.00	C
ATOM	5224	O	THR	549	39.582	96.386	57.424	1.00	0.00	O
ATOM	5225	N	ILE	550	40.410	95.654	55.458	1.00	0.00	N
ATOM	5226	HN	ILE	550	41.150	95.149	54.970	1.00	0.00	H
ATOM	5227	CA	ILE	550	39.308	96.192	54.722	1.00	0.00	C
ATOM	5228	CB	ILE	550	39.757	96.979	53.514	1.00	0.00	C
ATOM	5229	CG1	ILE	550	38.609	97.803	52.913	1.00	0.00	C
ATOM	5230	CG2	ILE	550	40.425	96.017	52.517	1.00	0.00	C
ATOM	5231	CD1	ILE	550	37.500	96.949	52.307	1.00	0.00	C
ATOM	5232	C	ILE	550	38.450	95.022	54.322	1.00	0.00	C
ATOM	5233	O	ILE	550	38.919	94.066	53.707	1.00	0.00	O
ATOM	5234	N	VAL	551	37.153	95.044	54.703	1.00	0.00	N
ATOM	5235	HN	VAL	551	36.781	95.841	55.220	1.00	0.00	H
ATOM	5236	CA	VAL	551	36.303	93.930	54.371	1.00	0.00	C
ATOM	5237	CB	VAL	551	35.756	93.218	55.573	1.00	0.00	C
ATOM	5238	CG1	VAL	551	34.869	94.197	56.363	1.00	0.00	C
ATOM	5239	CG2	VAL	551	35.016	91.957	55.096	1.00	0.00	C
ATOM	5240	C	VAL	551	35.121	94.402	53.571	1.00	0.00	C
ATOM	5241	O	VAL	551	34.476	95.395	53.906	1.00	0.00	O
ATOM	5242	N	ILE	552	34.803	93.671	52.481	1.00	0.00	N
ATOM	5243	HN	ILE	552	35.382	92.865	52.246	1.00	0.00	H
ATOM	5244	CA	ILE	552	33.679	93.985	51.638	1.00	0.00	C
ATOM	5245	CB	ILE	552	34.070	94.201	50.196	1.00	0.00	C
ATOM	5246	CG1	ILE	552	32.885	94.670	49.324	1.00	0.00	C
ATOM	5247	CG2	ILE	552	34.747	92.916	49.692	1.00	0.00	C
ATOM	5248	CD1	ILE	552	31.804	93.616	49.064	1.00	0.00	C
ATOM	5249	C	ILE	552	32.765	92.813	51.724	1.00	0.00	C
ATOM	5250	O	ILE	552	33.195	91.670	51.580	1.00	0.00	O
ATOM	5251	N	ALA	553	31.465	93.038	51.986	1.00	0.00	N

ATOM	5252	HN	ALA	553	31.069	93.971	52.100	1.00	0.00	H
ATOM	5253	CA	ALA	553	30.695	91.840	52.088	1.00	0.00	C
ATOM	5254	CB	ALA	553	30.997	91.039	53.367	1.00	0.00	C
ATOM	5255	C	ALA	553	29.230	92.114	52.090	1.00	0.00	C
ATOM	5256	O	ALA	553	28.759	93.250	52.147	1.00	0.00	O
ATOM	5257	N	HIS	554	28.489	91.013	51.884	1.00	0.00	N
ATOM	5258	HN	HIS	554	28.989	90.146	51.686	1.00	0.00	H
ATOM	5259	CA	HIS	554	27.070	90.949	51.917	1.00	0.00	C
ATOM	5260	ND1	HIS	554	26.243	91.072	48.838	1.00	0.00	N
ATOM	5261	HD1	HIS	554	25.535	91.737	49.151	1.00	0.00	H
ATOM	5262	CG	HIS	554	26.823	90.075	49.590	1.00	0.00	C
ATOM	5263	CB	HIS	554	26.506	89.827	51.033	1.00	0.00	C
ATOM	5264	NE2	HIS	554	27.684	90.029	47.506	1.00	0.00	N
ATOM	5265	HE2	HIS	554	28.236	89.767	46.690	1.00	0.00	H
ATOM	5266	CD2	HIS	554	27.700	89.447	48.761	1.00	0.00	C
ATOM	5267	CE1	HIS	554	26.794	91.000	47.601	1.00	0.00	C
ATOM	5268	C	HIS	554	26.488	90.793	53.304	1.00	0.00	C
ATOM	5269	O	HIS	554	25.372	91.243	53.543	1.00	0.00	O
ATOM	5270	N	ARG	555	27.192	90.146	54.261	1.00	0.00	N
ATOM	5271	HN	ARG	555	28.171	89.907	54.104	1.00	0.00	H
ATOM	5272	CA	ARG	555	26.552	89.795	55.505	1.00	0.00	C
ATOM	5273	CB	ARG	555	27.398	88.854	56.385	1.00	0.00	C
ATOM	5274	CG	ARG	555	27.912	87.583	55.697	1.00	0.00	C
ATOM	5275	CD	ARG	555	27.200	87.227	54.393	1.00	0.00	C
ATOM	5276	NE	ARG	555	25.741	87.139	54.672	1.00	0.00	N
ATOM	5277	HE	ARG	555	25.407	86.958	55.619	1.00	0.00	H
ATOM	5278	CZ	ARG	555	24.855	87.303	53.649	1.00	0.00	C
ATOM	5279	NH1	ARG	555	25.310	87.512	52.379	1.00	0.00	N
ATOM	5280	1HH1	ARG	555	24.647	87.635	51.614	1.00	0.00	H
ATOM	5281	2HH1	ARG	555	26.313	87.537	52.195	1.00	0.00	H
ATOM	5282	NH2	ARG	555	23.514	87.269	53.895	1.00	0.00	N
ATOM	5283	1HH2	ARG	555	22.851	87.392	53.130	1.00	0.00	H
ATOM	5284	2HH2	ARG	555	23.174	87.113	54.844	1.00	0.00	H
ATOM	5285	C	ARG	555	26.345	91.020	56.300	1.00	0.00	C
ATOM	5286	O	ARG	555	27.168	91.391	57.132	1.00	0.00	O
ATOM	5287	N	LEU	556	25.166	91.621	56.125	1.00	0.00	N
ATOM	5288	HN	LEU	556	24.479	91.222	55.485	1.00	0.00	H
ATOM	5289	CA	LEU	556	24.870	92.820	56.834	1.00	0.00	C
ATOM	5290	CB	LEU	556	23.454	93.366	56.586	1.00	0.00	C
ATOM	5291	CG	LEU	556	23.214	93.890	55.160	1.00	0.00	C
ATOM	5292	CD1	LEU	556	24.205	95.010	54.804	1.00	0.00	C
ATOM	5293	CD2	LEU	556	23.170	92.753	54.134	1.00	0.00	C
ATOM	5294	C	LEU	556	24.954	92.472	58.273	1.00	0.00	C
ATOM	5295	O	LEU	556	25.306	93.301	59.104	1.00	0.00	O
ATOM	5296	N	SER	557	24.647	91.212	58.606	1.00	0.00	N
ATOM	5297	HN	SER	557	24.370	90.536	57.895	1.00	0.00	H
ATOM	5298	CA	SER	557	24.718	90.837	59.991	1.00	0.00	C
ATOM	5299	CB	SER	557	24.456	89.340	60.197	1.00	0.00	C
ATOM	5300	OG	SER	557	23.194	88.996	59.651	1.00	0.00	O
ATOM	5301	HG	SER	557	23.032	88.069	59.779	1.00	0.00	H
ATOM	5302	C	SER	557	26.110	91.094	60.515	1.00	0.00	C
ATOM	5303	O	SER	557	26.279	91.701	61.570	1.00	0.00	O
ATOM	5304	N	THR	558	27.138	90.614	59.785	1.00	0.00	N
ATOM	5305	HN	THR	558	26.903	90.152	58.907	1.00	0.00	H
ATOM	5306	CA	THR	558	28.539	90.691	60.127	1.00	0.00	C
ATOM	5307	CB	THR	558	29.383	89.691	59.390	1.00	0.00	C
ATOM	5308	OG1	THR	558	29.390	89.969	57.997	1.00	0.00	O
ATOM	5309	HG1	THR	558	29.750	90.834	57.841	1.00	0.00	H
ATOM	5310	CG2	THR	558	28.801	88.292	59.643	1.00	0.00	C
ATOM	5311	C	THR	558	29.110	92.037	59.853	1.00	0.00	C
ATOM	5312	O	THR	558	30.256	92.306	60.214	1.00	0.00	O
ATOM	5313	N	VAL	559	28.403	92.863	59.067	1.00	0.00	N
ATOM	5314	HN	VAL	559	27.502	92.580	58.681	1.00	0.00	H
ATOM	5315	CA	VAL	559	28.952	94.152	58.788	1.00	0.00	C
ATOM	5316	CB	VAL	559	28.236	94.983	57.757	1.00	0.00	C
ATOM	5317	CG1	VAL	559	28.242	94.245	56.419	1.00	0.00	C
ATOM	5318	CG2	VAL	559	26.856	95.388	58.274	1.00	0.00	C
ATOM	5319	C	VAL	559	28.952	94.962	60.027	1.00	0.00	C
ATOM	5320	O	VAL	559	29.879	95.732	60.262	1.00	0.00	O
ATOM	5321	N	ARG	560	27.952	94.722	60.892	1.00	0.00	N
ATOM	5322	HN	ARG	560	27.392	93.878	60.776	1.00	0.00	H
ATOM	5323	CA	ARG	560	27.648	95.610	61.968	1.00	0.00	C
ATOM	5324	CB	ARG	560	26.606	95.034	62.931	1.00	0.00	C
ATOM	5325	CG	ARG	560	26.231	96.004	64.047	1.00	0.00	C

ATOM	5326	CD	ARG	560	24.915	95.636	64.723	1.00	0.00	C
ATOM	5327	NE	ARG	560	23.851	95.766	63.687	1.00	0.00	N
ATOM	5328	HE	ARG	560	23.909	96.504	62.985	1.00	0.00	H
ATOM	5329	CZ	ARG	560	22.800	94.897	63.679	1.00	0.00	C
ATOM	5330	NH1	ARG	560	22.724	93.911	64.620	1.00	0.00	N
ATOM	5331	1HH1	ARG	560	23.451	93.828	65.331	1.00	0.00	H
ATOM	5332	2HH1	ARG	560	21.938	93.261	64.614	1.00	0.00	H
ATOM	5333	NH2	ARG	560	21.827	95.008	62.728	1.00	0.00	N
ATOM	5334	1HH2	ARG	560	21.884	95.745	62.025	1.00	0.00	H
ATOM	5335	2HH2	ARG	560	21.041	94.358	62.722	1.00	0.00	H
ATOM	5336	C	ARG	560	28.872	95.988	62.767	1.00	0.00	C
ATOM	5337	O	ARG	560	29.103	97.177	62.982	1.00	0.00	O
ATOM	5338	N	ASN	561	29.729	95.034	63.180	1.00	0.00	N
ATOM	5339	HN	ASN	561	29.579	94.052	62.948	1.00	0.00	H
ATOM	5340	CA	ASN	561	30.866	95.451	63.962	1.00	0.00	C
ATOM	5341	CB	ASN	561	31.465	94.296	64.785	1.00	0.00	C
ATOM	5342	CG	ASN	561	31.929	93.200	63.832	1.00	0.00	C
ATOM	5343	OD1	ASN	561	31.271	92.898	62.837	1.00	0.00	O
ATOM	5344	ND2	ASN	561	33.107	92.594	64.139	1.00	0.00	N
ATOM	5345	1HD2	ASN	561	33.652	92.844	64.964	1.00	0.00	H
ATOM	5346	2HD2	ASN	561	33.417	91.861	63.501	1.00	0.00	H
ATOM	5347	C	ASN	561	31.941	95.998	63.062	1.00	0.00	C
ATOM	5348	O	ASN	561	33.093	95.567	63.100	1.00	0.00	O
ATOM	5349	N	ALA	562	31.608	97.030	62.266	1.00	0.00	N
ATOM	5350	HN	ALA	562	30.654	97.392	62.279	1.00	0.00	H
ATOM	5351	CA	ALA	562	32.580	97.624	61.402	1.00	0.00	C
ATOM	5352	CB	ALA	562	32.048	97.911	59.986	1.00	0.00	C
ATOM	5353	C	ALA	562	32.938	98.930	62.023	1.00	0.00	C
ATOM	5354	O	ALA	562	32.067	99.673	62.478	1.00	0.00	O
ATOM	5355	N	ASP	563	34.249	99.237	62.056	1.00	0.00	N
ATOM	5356	HN	ASP	563	34.933	98.586	61.671	1.00	0.00	H
ATOM	5357	CA	ASP	563	34.685	100.473	62.629	1.00	0.00	C
ATOM	5358	CB	ASP	563	36.209	100.664	62.548	1.00	0.00	C
ATOM	5359	CG	ASP	563	36.857	99.687	63.519	1.00	0.00	C
ATOM	5360	OD1	ASP	563	36.127	99.154	64.397	1.00	0.00	O
ATOM	5361	OD2	ASP	563	38.090	99.459	63.395	1.00	0.00	O
ATOM	5362	C	ASP	563	34.040	101.541	61.810	1.00	0.00	C
ATOM	5363	O	ASP	563	33.653	102.590	62.321	1.00	0.00	O
ATOM	5364	N	VAL	564	33.927	101.287	60.495	1.00	0.00	N
ATOM	5365	HN	VAL	564	34.292	100.408	60.128	1.00	0.00	H
ATOM	5366	CA	VAL	564	33.310	102.213	59.595	1.00	0.00	C
ATOM	5367	CB	VAL	564	34.297	103.228	59.085	1.00	0.00	C
ATOM	5368	CG1	VAL	564	35.524	102.482	58.529	1.00	0.00	C
ATOM	5369	CG2	VAL	564	33.604	104.131	58.050	1.00	0.00	C
ATOM	5370	C	VAL	564	32.789	101.430	58.427	1.00	0.00	C
ATOM	5371	O	VAL	564	33.250	100.320	58.161	1.00	0.00	O
ATOM	5372	N	ILE	565	31.791	101.993	57.712	1.00	0.00	N
ATOM	5373	HN	ILE	565	31.428	102.901	58.003	1.00	0.00	H
ATOM	5374	CA	ILE	565	31.222	101.357	56.555	1.00	0.00	C
ATOM	5375	CB	ILE	565	29.853	100.814	56.823	1.00	0.00	C
ATOM	5376	CG1	ILE	565	29.975	99.774	57.950	1.00	0.00	C
ATOM	5377	CG2	ILE	565	29.281	100.234	55.517	1.00	0.00	C
ATOM	5378	CD1	ILE	565	28.669	99.453	58.660	1.00	0.00	C
ATOM	5379	C	ILE	565	31.164	102.396	55.481	1.00	0.00	C
ATOM	5380	O	ILE	565	31.162	103.590	55.773	1.00	0.00	O
ATOM	5381	N	ALA	566	31.177	101.968	54.201	1.00	0.00	N
ATOM	5382	HN	ALA	566	31.218	100.969	54.001	1.00	0.00	H
ATOM	5383	CA	ALA	566	31.134	102.911	53.119	1.00	0.00	C
ATOM	5384	CB	ALA	566	32.488	103.083	52.415	1.00	0.00	C
ATOM	5385	C	ALA	566	30.149	102.410	52.101	1.00	0.00	C
ATOM	5386	O	ALA	566	29.997	101.206	51.890	1.00	0.00	O
ATOM	5387	N	GLY	567	29.462	103.342	51.409	1.00	0.00	N
ATOM	5388	HN	GLY	567	29.670	104.333	51.532	1.00	0.00	H
ATOM	5389	CA	GLY	567	28.437	102.924	50.499	1.00	0.00	C
ATOM	5390	C	GLY	567	28.965	102.859	49.112	1.00	0.00	C
ATOM	5391	O	GLY	567	29.435	103.845	48.554	1.00	0.00	O
ATOM	5392	N	PHE	568	28.844	101.661	48.519	1.00	0.00	N
ATOM	5393	HN	PHE	568	28.443	100.902	49.070	1.00	0.00	H
ATOM	5394	CA	PHE	568	29.233	101.364	47.176	1.00	0.00	C
ATOM	5395	CB	PHE	568	30.459	100.433	47.037	1.00	0.00	C
ATOM	5396	CG	PHE	568	31.731	101.140	47.385	1.00	0.00	C
ATOM	5397	CD1	PHE	568	32.298	102.032	46.503	1.00	0.00	C
ATOM	5398	CD2	PHE	568	32.383	100.886	48.572	1.00	0.00	C
ATOM	5399	CE1	PHE	568	33.474	102.678	46.809	1.00	0.00	C

ATOM	5400	CE2	PHE	568	33.560	101.528	48.885	1.00	0.00	C
ATOM	5401	CZ	PHE	568	34.107	102.429	48.004	1.00	0.00	C
ATOM	5402	C	PHE	568	28.086	100.615	46.581	1.00	0.00	C
ATOM	5403	O	PHE	568	27.133	100.254	47.271	1.00	0.00	O
ATOM	5404	N	ASP	569	28.138	100.417	45.254	1.00	0.00	N
ATOM	5405	HN	ASP	569	28.925	100.800	44.730	1.00	0.00	H
ATOM	5406	CA	ASP	569	27.130	99.689	44.548	1.00	0.00	C
ATOM	5407	CB	ASP	569	25.709	100.196	44.850	1.00	0.00	C
ATOM	5408	CG	ASP	569	24.707	99.160	44.361	1.00	0.00	C
ATOM	5409	OD1	ASP	569	24.849	97.970	44.750	1.00	0.00	O
ATOM	5410	OD2	ASP	569	23.793	99.544	43.583	1.00	0.00	O
ATOM	5411	C	ASP	569	27.391	99.996	43.115	1.00	0.00	C
ATOM	5412	O	ASP	569	26.692	100.802	42.505	1.00	0.00	O
ATOM	5413	N	ASP	570	28.339	99.275	42.505	1.00	0.00	N
ATOM	5414	HN	ASP	570	28.776	98.496	42.998	1.00	0.00	H
ATOM	5415	CA	ASP	570	28.747	99.586	41.165	1.00	0.00	C
ATOM	5416	CB	ASP	570	27.615	99.550	40.123	1.00	0.00	C
ATOM	5417	CG	ASP	570	28.207	99.484	38.714	1.00	0.00	C
ATOM	5418	OD1	ASP	570	29.401	99.845	38.536	1.00	0.00	O
ATOM	5419	OD2	ASP	570	27.461	99.058	37.792	1.00	0.00	O
ATOM	5420	C	ASP	570	29.398	100.933	41.047	1.00	0.00	C
ATOM	5421	O	ASP	570	28.931	101.779	40.291	1.00	0.00	O
ATOM	5422	N	GLY	571	30.503	101.167	41.789	1.00	0.00	N
ATOM	5423	HN	GLY	571	30.798	100.475	42.478	1.00	0.00	H
ATOM	5424	CA	GLY	571	31.271	102.371	41.627	1.00	0.00	C
ATOM	5425	C	GLY	571	30.550	103.611	42.096	1.00	0.00	C
ATOM	5426	O	GLY	571	30.314	104.507	41.290	1.00	0.00	O
ATOM	5427	N	VAL	572	30.129	103.699	43.382	1.00	0.00	N
ATOM	5428	HN	VAL	572	30.225	102.899	44.008	1.00	0.00	H
ATOM	5429	CA	VAL	572	29.542	104.934	43.864	1.00	0.00	C
ATOM	5430	CB	VAL	572	28.056	104.992	43.645	1.00	0.00	C
ATOM	5431	CG1	VAL	572	27.485	106.174	44.428	1.00	0.00	C
ATOM	5432	CG2	VAL	572	27.778	105.109	42.142	1.00	0.00	C
ATOM	5433	C	VAL	572	29.749	105.037	45.354	1.00	0.00	C
ATOM	5434	O	VAL	572	29.125	104.278	46.089	1.00	0.00	O
ATOM	5435	N	ILE	573	30.555	106.015	45.856	1.00	0.00	N
ATOM	5436	HN	ILE	573	30.992	106.686	45.224	1.00	0.00	H
ATOM	5437	CA	ILE	573	30.795	106.106	47.284	1.00	0.00	C
ATOM	5438	CB	ILE	573	32.233	106.328	47.657	1.00	0.00	C
ATOM	5439	CG1	ILE	573	32.359	106.415	49.188	1.00	0.00	C
ATOM	5440	CG2	ILE	573	32.764	107.557	46.901	1.00	0.00	C
ATOM	5441	CD1	ILE	573	31.920	105.147	49.915	1.00	0.00	C
ATOM	5442	C	ILE	573	29.983	107.208	47.915	1.00	0.00	C
ATOM	5443	O	ILE	573	30.298	108.385	47.760	1.00	0.00	O
ATOM	5444	N	VAL	574	28.814	106.872	48.509	1.00	0.00	N
ATOM	5445	HN	VAL	574	28.489	105.906	48.466	1.00	0.00	H
ATOM	5446	CA	VAL	574	28.021	107.858	49.202	1.00	0.00	C
ATOM	5447	CB	VAL	574	26.572	107.717	48.836	1.00	0.00	C
ATOM	5448	CG1	VAL	574	26.446	108.039	47.336	1.00	0.00	C
ATOM	5449	CG2	VAL	574	26.100	106.291	49.173	1.00	0.00	C
ATOM	5450	C	VAL	574	28.123	107.985	50.709	1.00	0.00	C
ATOM	5451	O	VAL	574	28.683	108.948	51.234	1.00	0.00	O
ATOM	5452	N	GLU	575	27.652	106.939	51.438	1.00	0.00	N
ATOM	5453	HN	GLU	575	27.481	106.052	50.965	1.00	0.00	H
ATOM	5454	CA	GLU	575	27.382	107.030	52.857	1.00	0.00	C
ATOM	5455	CB	GLU	575	26.064	106.329	53.226	1.00	0.00	C
ATOM	5456	CG	GLU	575	24.839	106.962	52.562	1.00	0.00	C
ATOM	5457	CD	GLU	575	23.704	105.947	52.606	1.00	0.00	C
ATOM	5458	OE1	GLU	575	23.982	104.766	52.943	1.00	0.00	O
ATOM	5459	OE2	GLU	575	22.546	106.336	52.298	1.00	0.00	O
ATOM	5460	C	GLU	575	28.456	106.362	53.646	1.00	0.00	C
ATOM	5461	O	GLU	575	28.581	105.139	53.616	1.00	0.00	O
ATOM	5462	N	LYS	576	29.217	107.163	54.422	1.00	0.00	N
ATOM	5463	HN	LYS	576	29.027	108.165	54.438	1.00	0.00	H
ATOM	5464	CA	LYS	576	30.286	106.643	55.225	1.00	0.00	C
ATOM	5465	CB	LYS	576	31.603	107.431	55.079	1.00	0.00	C
ATOM	5466	CG	LYS	576	32.815	106.741	55.711	1.00	0.00	C
ATOM	5467	CD	LYS	576	34.135	107.504	55.559	1.00	0.00	C
ATOM	5468	CE	LYS	576	34.296	108.231	54.224	1.00	0.00	C
ATOM	5469	NZ	LYS	576	33.778	109.612	54.343	1.00	0.00	N
ATOM	5470	HZ1	LYS	576	33.885	110.097	53.452	1.00	0.00	H
ATOM	5471	HZ2	LYS	576	34.213	110.121	55.113	1.00	0.00	H
ATOM	5472	HZ3	LYS	576	32.815	109.634	54.679	1.00	0.00	H
ATOM	5473	C	LYS	576	29.860	106.789	56.647	1.00	0.00	C

ATOM	5474	O	LYS	576	29.136	107.724	56.989	1.00	0.00	O
ATOM	5475	N	GLY	577	30.272	105.842	57.515	1.00	0.00	N
ATOM	5476	HN	GLY	577	30.808	105.034	57.199	1.00	0.00	H
ATOM	5477	CA	GLY	577	29.931	106.010	58.891	1.00	0.00	C
ATOM	5478	C	GLY	577	29.487	104.714	59.486	1.00	0.00	C
ATOM	5479	O	GLY	577	29.522	103.658	58.856	1.00	0.00	O
ATOM	5480	N	ASN	578	29.019	104.812	60.744	1.00	0.00	N
ATOM	5481	HN	ASN	578	28.941	105.745	61.149	1.00	0.00	H
ATOM	5482	CA	ASN	578	28.623	103.701	61.554	1.00	0.00	C
ATOM	5483	CB	ASN	578	28.434	104.087	63.036	1.00	0.00	C
ATOM	5484	CG	ASN	578	28.272	102.815	63.855	1.00	0.00	C
ATOM	5485	OD1	ASN	578	29.146	101.949	63.859	1.00	0.00	O
ATOM	5486	ND2	ASN	578	27.114	102.685	64.556	1.00	0.00	N
ATOM	5487	1HD2	ASN	578	27.005	101.832	65.105	1.00	0.00	H
ATOM	5488	2HD2	ASN	578	26.389	103.403	64.553	1.00	0.00	H
ATOM	5489	C	ASN	578	27.326	103.126	61.060	1.00	0.00	C
ATOM	5490	O	ASN	578	26.566	103.759	60.331	1.00	0.00	O
ATOM	5491	N	HIS	579	27.045	101.883	61.498	1.00	0.00	N
ATOM	5492	HN	HIS	579	27.678	101.478	62.188	1.00	0.00	H
ATOM	5493	CA	HIS	579	25.929	101.078	61.076	1.00	0.00	C
ATOM	5494	ND1	HIS	579	24.292	98.180	60.638	1.00	0.00	N
ATOM	5495	HD1	HIS	579	24.867	98.026	59.810	1.00	0.00	H
ATOM	5496	CG	HIS	579	24.602	98.974	61.718	1.00	0.00	C
ATOM	5497	CB	HIS	579	25.871	99.761	61.878	1.00	0.00	C
ATOM	5498	NE2	HIS	579	22.578	98.033	62.049	1.00	0.00	N
ATOM	5499	HE2	HIS	579	21.684	97.775	62.467	1.00	0.00	H
ATOM	5500	CD2	HIS	579	23.545	98.872	62.570	1.00	0.00	C
ATOM	5501	CE1	HIS	579	23.070	97.641	60.889	1.00	0.00	C
ATOM	5502	C	HIS	579	24.613	101.745	61.268	1.00	0.00	C
ATOM	5503	O	HIS	579	23.882	101.943	60.297	1.00	0.00	O
ATOM	5504	N	ASP	580	24.305	102.160	62.508	1.00	0.00	N
ATOM	5505	HN	ASP	580	25.000	102.085	63.251	1.00	0.00	H
ATOM	5506	CA	ASP	580	23.014	102.706	62.800	1.00	0.00	C
ATOM	5507	CB	ASP	580	22.852	103.136	64.270	1.00	0.00	C
ATOM	5508	CG	ASP	580	23.815	104.278	64.569	1.00	0.00	C
ATOM	5509	OD1	ASP	580	24.983	104.217	64.103	1.00	0.00	O
ATOM	5510	OD2	ASP	580	23.387	105.236	65.267	1.00	0.00	O
ATOM	5511	C	ASP	580	22.860	103.914	61.956	1.00	0.00	C
ATOM	5512	O	ASP	580	21.746	104.326	61.643	1.00	0.00	O
ATOM	5513	N	GLU	581	23.996	104.539	61.617	1.00	0.00	N
ATOM	5514	HN	GLU	581	24.888	104.156	61.931	1.00	0.00	H
ATOM	5515	CA	GLU	581	23.988	105.729	60.827	1.00	0.00	C
ATOM	5516	CB	GLU	581	25.411	106.279	60.671	1.00	0.00	C
ATOM	5517	CG	GLU	581	26.064	106.597	62.016	1.00	0.00	C
ATOM	5518	CD	GLU	581	27.463	107.125	61.743	1.00	0.00	C
ATOM	5519	OE1	GLU	581	27.740	107.509	60.575	1.00	0.00	O
ATOM	5520	OE2	GLU	581	28.275	107.149	62.705	1.00	0.00	O
ATOM	5521	C	GLU	581	23.468	105.423	59.450	1.00	0.00	C
ATOM	5522	O	GLU	581	22.605	106.131	58.937	1.00	0.00	O
ATOM	5523	N	LEU	582	23.988	104.362	58.804	1.00	0.00	N
ATOM	5524	HN	LEU	582	24.687	103.787	59.274	1.00	0.00	H
ATOM	5525	CA	LEU	582	23.581	104.020	57.465	1.00	0.00	C
ATOM	5526	CB	LEU	582	24.504	102.991	56.784	1.00	0.00	C
ATOM	5527	CG	LEU	582	25.883	103.555	56.383	1.00	0.00	C
ATOM	5528	CD1	LEU	582	26.689	104.011	57.606	1.00	0.00	C
ATOM	5529	CD2	LEU	582	26.657	102.565	55.497	1.00	0.00	C
ATOM	5530	C	LEU	582	22.179	103.482	57.418	1.00	0.00	C
ATOM	5531	O	LEU	582	21.481	103.657	56.419	1.00	0.00	O
ATOM	5532	N	MET	583	21.776	102.703	58.440	1.00	0.00	N
ATOM	5533	HN	MET	583	22.445	102.458	59.170	1.00	0.00	H
ATOM	5534	CA	MET	583	20.427	102.206	58.532	1.00	0.00	C
ATOM	5535	CB	MET	583	20.255	101.233	59.714	1.00	0.00	C
ATOM	5536	CG	MET	583	21.045	99.927	59.593	1.00	0.00	C
ATOM	5537	SD	MET	583	20.265	98.651	58.560	1.00	0.00	S
ATOM	5538	CE	MET	583	19.198	98.035	59.893	1.00	0.00	C
ATOM	5539	C	MET	583	19.521	103.367	58.818	1.00	0.00	C
ATOM	5540	O	MET	583	18.448	103.497	58.232	1.00	0.00	O
ATOM	5541	N	LYS	584	19.953	104.262	59.733	1.00	0.00	N
ATOM	5542	HN	LYS	584	20.876	104.146	60.151	1.00	0.00	H
ATOM	5543	CA	LYS	584	19.135	105.373	60.127	1.00	0.00	C
ATOM	5544	CB	LYS	584	19.697	106.206	61.297	1.00	0.00	C
ATOM	5545	CG	LYS	584	21.020	106.919	61.026	1.00	0.00	C
ATOM	5546	CD	LYS	584	21.364	107.994	62.060	1.00	0.00	C
ATOM	5547	CE	LYS	584	21.379	107.486	63.504	1.00	0.00	C

ATOM	5548	NZ	LYS	584	19.992	107.282	63.983	1.00	0.00	N
ATOM	5549	HZ1	LYS	584	20.002	106.944	64.945	1.00	0.00	H
ATOM	5550	HZ2	LYS	584	19.461	106.667	63.367	1.00	0.00	H
ATOM	5551	HZ3	LYS	584	19.424	108.123	63.879	1.00	0.00	H
ATOM	5552	C	LYS	584	18.948	106.240	58.930	1.00	0.00	C
ATOM	5553	O	LYS	584	17.923	106.906	58.779	1.00	0.00	O
ATOM	5554	N	GLU	585	19.974	106.257	58.061	1.00	0.00	N
ATOM	5555	HN	GLU	585	20.815	105.726	58.287	1.00	0.00	H
ATOM	5556	CA	GLU	585	19.933	106.989	56.833	1.00	0.00	C
ATOM	5557	CB	GLU	585	21.234	106.890	56.022	1.00	0.00	C
ATOM	5558	CG	GLU	585	22.381	107.706	56.606	1.00	0.00	C
ATOM	5559	CD	GLU	585	22.068	109.172	56.342	1.00	0.00	C
ATOM	5560	OE1	GLU	585	21.276	109.443	55.400	1.00	0.00	O
ATOM	5561	OE2	GLU	585	22.614	110.039	57.075	1.00	0.00	O
ATOM	5562	C	GLU	585	18.868	106.387	55.982	1.00	0.00	C
ATOM	5563	O	GLU	585	18.225	107.102	55.216	1.00	0.00	O
ATOM	5564	N	LYS	586	18.686	105.051	56.100	1.00	0.00	N
ATOM	5565	HN	LYS	586	19.239	104.562	56.804	1.00	0.00	H
ATOM	5566	CA	LYS	586	17.774	104.266	55.311	1.00	0.00	C
ATOM	5567	CB	LYS	586	16.270	104.512	55.552	1.00	0.00	C
ATOM	5568	CG	LYS	586	15.774	105.907	55.185	1.00	0.00	C
ATOM	5569	CD	LYS	586	14.279	105.957	54.884	1.00	0.00	C
ATOM	5570	CE	LYS	586	13.964	105.294	53.541	1.00	0.00	C
ATOM	5571	NZ	LYS	586	12.534	105.444	53.193	1.00	0.00	N
ATOM	5572	HZ1	LYS	586	12.324	105.002	52.298	1.00	0.00	H
ATOM	5573	HZ2	LYS	586	12.246	106.422	53.205	1.00	0.00	H
ATOM	5574	HZ3	LYS	586	11.929	105.094	53.935	1.00	0.00	H
ATOM	5575	C	LYS	586	18.111	104.562	53.898	1.00	0.00	C
ATOM	5576	O	LYS	586	17.248	104.676	53.029	1.00	0.00	O
ATOM	5577	N	GLY	587	19.427	104.673	53.653	1.00	0.00	N
ATOM	5578	HN	GLY	587	20.088	104.523	54.415	1.00	0.00	H
ATOM	5579	CA	GLY	587	19.924	104.994	52.362	1.00	0.00	C
ATOM	5580	C	GLY	587	20.320	103.724	51.695	1.00	0.00	C
ATOM	5581	O	GLY	587	19.580	102.740	51.677	1.00	0.00	O
ATOM	5582	N	ILE	588	21.522	103.741	51.099	1.00	0.00	N
ATOM	5583	HN	ILE	588	22.112	104.570	51.176	1.00	0.00	H
ATOM	5584	CA	ILE	588	21.983	102.615	50.361	1.00	0.00	C
ATOM	5585	CB	ILE	588	23.329	102.880	49.750	1.00	0.00	C
ATOM	5586	CG1	ILE	588	23.273	104.085	48.794	1.00	0.00	C
ATOM	5587	CG2	ILE	588	23.798	101.585	49.068	1.00	0.00	C
ATOM	5588	CD1	ILE	588	22.355	103.871	47.592	1.00	0.00	C
ATOM	5589	C	ILE	588	22.142	101.438	51.269	1.00	0.00	C
ATOM	5590	O	ILE	588	21.578	100.373	51.011	1.00	0.00	O
ATOM	5591	N	TYR	589	22.847	101.633	52.403	1.00	0.00	N
ATOM	5592	HN	TYR	589	23.156	102.572	52.653	1.00	0.00	H
ATOM	5593	CA	TYR	589	23.164	100.526	53.258	1.00	0.00	C
ATOM	5594	CB	TYR	589	23.923	100.978	54.519	1.00	0.00	C
ATOM	5595	CG	TYR	589	24.049	99.814	55.437	1.00	0.00	C
ATOM	5596	CD1	TYR	589	24.875	98.757	55.136	1.00	0.00	C
ATOM	5597	CD2	TYR	589	23.348	99.799	56.619	1.00	0.00	C
ATOM	5598	CE1	TYR	589	24.980	97.690	55.999	1.00	0.00	C
ATOM	5599	CE2	TYR	589	23.449	98.738	57.485	1.00	0.00	C
ATOM	5600	CZ	TYR	589	24.264	97.680	57.173	1.00	0.00	C
ATOM	5601	OH	TYR	589	24.361	96.593	58.064	1.00	0.00	O
ATOM	5602	HH	TYR	589	24.926	95.860	57.848	1.00	0.00	H
ATOM	5603	C	TYR	589	21.905	99.827	53.664	1.00	0.00	C
ATOM	5604	O	TYR	589	21.724	98.635	53.415	1.00	0.00	O
ATOM	5605	N	PHE	590	20.949	100.592	54.193	1.00	0.00	N
ATOM	5606	HN	PHE	590	21.103	101.598	54.255	1.00	0.00	H
ATOM	5607	CA	PHE	590	19.717	100.054	54.676	1.00	0.00	C
ATOM	5608	CB	PHE	590	18.793	101.155	55.225	1.00	0.00	C
ATOM	5609	CG	PHE	590	17.533	100.515	55.694	1.00	0.00	C
ATOM	5610	CD1	PHE	590	17.476	99.891	56.918	1.00	0.00	C
ATOM	5611	CD2	PHE	590	16.404	100.551	54.907	1.00	0.00	C
ATOM	5612	CE1	PHE	590	16.311	99.302	57.350	1.00	0.00	C
ATOM	5613	CE2	PHE	590	15.237	99.964	55.334	1.00	0.00	C
ATOM	5614	CZ	PHE	590	15.190	99.338	56.557	1.00	0.00	C
ATOM	5615	C	PHE	590	18.999	99.380	53.544	1.00	0.00	C
ATOM	5616	O	PHE	590	18.561	98.233	53.656	1.00	0.00	O
ATOM	5617	N	LYS	591	18.906	100.067	52.393	1.00	0.00	N
ATOM	5618	HN	LYS	591	19.404	100.951	52.288	1.00	0.00	H
ATOM	5619	CA	LYS	591	18.113	99.566	51.314	1.00	0.00	C
ATOM	5620	CB	LYS	591	18.152	100.456	50.064	1.00	0.00	C
ATOM	5621	CG	LYS	591	17.293	99.895	48.927	1.00	0.00	C

ATOM	5622	CD	LYS	591	17.170	100.822	47.718	1.00	0.00	C
ATOM	5623	CE	LYS	591	18.378	100.779	46.779	1.00	0.00	C
ATOM	5624	NZ	LYS	591	18.166	101.703	45.643	1.00	0.00	N
ATOM	5625	HZ1	LYS	591	18.971	101.674	45.017	1.00	0.00	H
ATOM	5626	HZ2	LYS	591	17.957	102.651	45.955	1.00	0.00	H
ATOM	5627	HZ3	LYS	591	17.292	101.512	45.152	1.00	0.00	H
ATOM	5628	C	LYS	591	18.634	98.245	50.882	1.00	0.00	C
ATOM	5629	O	LYS	591	17.907	97.256	50.783	1.00	0.00	O
ATOM	5630	N	LEU	592	19.947	98.189	50.650	1.00	0.00	N
ATOM	5631	HN	LEU	592	20.530	99.013	50.801	1.00	0.00	H
ATOM	5632	CA	LEU	592	20.530	96.976	50.192	1.00	0.00	C
ATOM	5633	CB	LEU	592	22.022	97.120	49.832	1.00	0.00	C
ATOM	5634	CG	LEU	592	22.260	97.857	48.492	1.00	0.00	C
ATOM	5635	CD1	LEU	592	21.718	97.038	47.308	1.00	0.00	C
ATOM	5636	CD2	LEU	592	21.699	99.287	48.499	1.00	0.00	C
ATOM	5637	C	LEU	592	20.347	95.933	51.237	1.00	0.00	C
ATOM	5638	O	LEU	592	20.184	94.755	50.914	1.00	0.00	O
ATOM	5639	N	VAL	593	20.339	96.354	52.518	1.00	0.00	N
ATOM	5640	HN	VAL	593	20.404	97.352	52.718	1.00	0.00	H
ATOM	5641	CA	VAL	593	20.241	95.422	53.604	1.00	0.00	C
ATOM	5642	CB	VAL	593	20.075	96.066	54.957	1.00	0.00	C
ATOM	5643	CG1	VAL	593	19.657	94.978	55.963	1.00	0.00	C
ATOM	5644	CG2	VAL	593	21.397	96.740	55.355	1.00	0.00	C
ATOM	5645	C	VAL	593	19.017	94.588	53.369	1.00	0.00	C
ATOM	5646	O	VAL	593	19.076	93.359	53.344	1.00	0.00	O
ATOM	5647	N	THR	594	17.883	95.252	53.104	1.00	0.00	N
ATOM	5648	HN	THR	594	17.917	96.265	52.991	1.00	0.00	H
ATOM	5649	CA	THR	594	16.623	94.579	52.975	1.00	0.00	C
ATOM	5650	CB	THR	594	15.476	95.542	52.882	1.00	0.00	C
ATOM	5651	OG1	THR	594	15.580	96.316	51.696	1.00	0.00	O
ATOM	5652	HG1	THR	594	15.559	95.747	50.935	1.00	0.00	H
ATOM	5653	CG2	THR	594	15.510	96.463	54.114	1.00	0.00	C
ATOM	5654	C	THR	594	16.582	93.716	51.741	1.00	0.00	C
ATOM	5655	O	THR	594	16.104	92.583	51.747	1.00	0.00	O
ATOM	5656	N	MET	595	17.151	94.245	50.656	1.00	0.00	N
ATOM	5657	HN	MET	595	17.653	95.120	50.809	1.00	0.00	H
ATOM	5658	CA	MET	595	17.158	93.759	49.303	1.00	0.00	C
ATOM	5659	CB	MET	595	17.724	94.849	48.361	1.00	0.00	C
ATOM	5660	CG	MET	595	17.454	94.702	46.858	1.00	0.00	C
ATOM	5661	SD	MET	595	18.578	93.609	45.938	1.00	0.00	S
ATOM	5662	CE	MET	595	20.086	94.472	46.464	1.00	0.00	C
ATOM	5663	C	MET	595	18.001	92.505	49.190	1.00	0.00	C
ATOM	5664	O	MET	595	18.060	91.869	48.140	1.00	0.00	O
ATOM	5665	N	GLN	596	18.619	92.080	50.301	1.00	0.00	N
ATOM	5666	HN	GLN	596	18.187	92.345	51.186	1.00	0.00	H
ATOM	5667	CA	GLN	596	19.821	91.293	50.391	1.00	0.00	C
ATOM	5668	CB	GLN	596	20.104	90.779	51.812	1.00	0.00	C
ATOM	5669	CG	GLN	596	21.494	90.147	51.907	1.00	0.00	C
ATOM	5670	CD	GLN	596	21.870	89.990	53.372	1.00	0.00	C
ATOM	5671	OE1	GLN	596	23.050	89.940	53.714	1.00	0.00	O
ATOM	5672	NE2	GLN	596	20.844	89.924	54.261	1.00	0.00	N
ATOM	5673	1HE2	GLN	596	21.096	89.819	55.244	1.00	0.00	H
ATOM	5674	2HE2	GLN	596	19.865	89.965	53.977	1.00	0.00	H
ATOM	5675	C	GLN	596	20.187	90.147	49.455	1.00	0.00	C
ATOM	5676	O	GLN	596	21.325	90.167	48.996	1.00	0.00	O
ATOM	5677	N	THR	597	19.398	89.124	49.082	1.00	0.00	N
ATOM	5678	HN	THR	597	18.396	89.068	49.264	1.00	0.00	H
ATOM	5679	CA	THR	597	20.196	88.074	48.360	1.00	0.00	C
ATOM	5680	CB	THR	597	20.666	86.999	49.296	1.00	0.00	C
ATOM	5681	OG1	THR	597	19.543	86.361	49.883	1.00	0.00	O
ATOM	5682	HG1	THR	597	19.840	85.681	50.475	1.00	0.00	H
ATOM	5683	CG2	THR	597	21.554	87.612	50.392	1.00	0.00	C
ATOM	5684	C	THR	597	19.499	87.261	47.107	1.00	0.00	C
ATOM	5685	O	THR	597	18.492	87.929	46.849	1.00	0.00	O
ATOM	5686	N	LEU	598	20.014	86.024	46.335	1.00	0.00	N
ATOM	5687	HN	LEU	598	19.479	85.352	45.785	1.00	0.00	H
ATOM	5688	HN	LEU	598	21.019	86.043	46.509	1.00	0.00	H
ATOM	5689	CA	LEU	598	19.512	84.947	45.212	1.00	0.00	C
ATOM	5690	CB	LEU	598	18.743	85.666	44.073	1.00	0.00	C
ATOM	5691	CG	LEU	598	18.132	84.783	42.949	1.00	0.00	C
ATOM	5692	CD1	LEU	598	19.138	84.367	41.858	1.00	0.00	C
ATOM	5693	CD2	LEU	598	17.358	83.595	43.545	1.00	0.00	C
ATOM	5694	C	LEU	598	20.335	83.670	44.434	1.00	0.00	C
ATOM	5695	O	LEU	598	21.211	83.938	43.606	1.00	0.00	O

ATOM	5696	N	ASP	599	20.008	82.252	44.487	1.00	0.00	N
ATOM	5697	HN	ASP	599	19.221	82.022	45.094	1.00	0.00	H
ATOM	5698	CA	ASP	599	20.659	81.019	43.771	1.00	0.00	C
ATOM	5699	CB	ASP	599	21.768	80.372	44.621	1.00	0.00	C
ATOM	5700	CG	ASP	599	22.959	81.323	44.611	1.00	0.00	C
ATOM	5701	OD1	ASP	599	23.218	81.926	43.535	1.00	0.00	O
ATOM	5702	OD2	ASP	599	23.621	81.465	45.674	1.00	0.00	O
ATOM	5703	C	ASP	599	19.732	79.822	43.232	1.00	0.00	C
ATOM	5704	O	ASP	599	18.546	79.819	43.542	1.00	0.00	O
ATOM	5705	N	GLU	600	20.224	78.743	42.442	1.00	0.00	N
ATOM	5706	HN	GLU	600	21.235	78.651	42.345	1.00	0.00	H
ATOM	5707	CA	GLU	600	19.353	77.719	41.733	1.00	0.00	C
ATOM	5708	CB	GLU	600	18.715	78.389	40.509	1.00	0.00	C
ATOM	5709	CG	GLU	600	19.733	79.248	39.746	1.00	0.00	C
ATOM	5710	CD	GLU	600	19.764	80.629	40.393	1.00	0.00	C
ATOM	5711	OE1	GLU	600	18.719	81.321	40.278	1.00	0.00	O
ATOM	5712	OE2	GLU	600	20.799	81.012	41.005	1.00	0.00	O
ATOM	5713	C	GLU	600	19.908	76.344	41.250	1.00	0.00	C
ATOM	5714	O	GLU	600	20.918	75.838	41.724	1.00	0.00	O
ATOM	5715	N	SER	601	19.148	75.642	40.332	1.00	0.00	N
ATOM	5716	HN	SER	601	18.264	76.083	40.078	1.00	0.00	H
ATOM	5717	CA	SER	601	19.418	74.350	39.660	1.00	0.00	C
ATOM	5718	CB	SER	601	20.882	73.888	39.754	1.00	0.00	C
ATOM	5719	OG	SER	601	21.731	74.804	39.076	1.00	0.00	O
ATOM	5720	HG	SER	601	22.635	74.519	39.134	1.00	0.00	H
ATOM	5721	C	SER	601	18.566	73.310	40.318	1.00	0.00	C
ATOM	5722	O	SER	601	18.167	73.485	41.468	1.00	0.00	O
ATOM	5723	N	ILE	602	18.242	72.197	39.613	1.00	0.00	N
ATOM	5724	HN	ILE	602	18.577	72.044	38.662	1.00	0.00	H
ATOM	5725	CA	ILE	602	17.396	71.243	40.288	1.00	0.00	C
ATOM	5726	CB	ILE	602	15.950	71.524	40.007	1.00	0.00	C
ATOM	5727	CG1	ILE	602	15.592	72.932	40.503	1.00	0.00	C
ATOM	5728	CG2	ILE	602	15.090	70.423	40.635	1.00	0.00	C
ATOM	5729	CD1	ILE	602	14.235	73.422	40.004	1.00	0.00	C
ATOM	5730	C	ILE	602	17.676	69.801	39.928	1.00	0.00	C
ATOM	5731	O	ILE	602	17.677	69.398	38.764	1.00	0.00	O
ATOM	5732	N	PRO	603	17.908	69.016	40.955	1.00	0.00	N
ATOM	5733	CA	PRO	603	18.113	67.591	40.793	1.00	0.00	C
ATOM	5734	CD	PRO	603	18.669	69.540	42.079	1.00	0.00	C
ATOM	5735	CB	PRO	603	18.773	67.114	42.083	1.00	0.00	C
ATOM	5736	CG	PRO	603	19.507	68.362	42.601	1.00	0.00	C
ATOM	5737	C	PRO	603	16.905	66.769	40.414	1.00	0.00	C
ATOM	5738	O	PRO	603	17.093	65.730	39.780	1.00	0.00	O
ATOM	5739	N	PRO	604	15.702	67.144	40.754	1.00	0.00	N
ATOM	5740	CA	PRO	604	14.592	66.289	40.407	1.00	0.00	C
ATOM	5741	CD	PRO	604	15.482	67.781	42.043	1.00	0.00	C
ATOM	5742	CB	PRO	604	13.403	66.815	41.201	1.00	0.00	C
ATOM	5743	CG	PRO	604	14.065	67.364	42.480	1.00	0.00	C
ATOM	5744	C	PRO	604	14.379	66.155	38.936	1.00	0.00	C
ATOM	5745	O	PRO	604	14.567	67.124	38.204	1.00	0.00	O
ATOM	5746	N	VAL	605	13.949	64.955	38.499	1.00	0.00	N
ATOM	5747	HN	VAL	605	13.726	64.236	39.187	1.00	0.00	H
ATOM	5748	CA	VAL	605	13.792	64.646	37.105	1.00	0.00	C
ATOM	5749	CB	VAL	605	14.555	63.409	36.710	1.00	0.00	C
ATOM	5750	CG1	VAL	605	13.894	62.186	37.370	1.00	0.00	C
ATOM	5751	CG2	VAL	605	14.678	63.344	35.176	1.00	0.00	C
ATOM	5752	C	VAL	605	12.323	64.437	36.848	1.00	0.00	C
ATOM	5753	O	VAL	605	11.486	65.110	37.448	1.00	0.00	O
ATOM	5754	N	SER	606	11.958	63.586	35.863	1.00	0.00	N
ATOM	5755	HN	SER	606	12.661	63.112	35.296	1.00	0.00	H
ATOM	5756	CA	SER	606	10.557	63.364	35.632	1.00	0.00	C
ATOM	5757	CB	SER	606	9.925	64.576	34.925	1.00	0.00	C
ATOM	5758	OG	SER	606	8.538	64.380	34.714	1.00	0.00	O
ATOM	5759	HG	SER	606	8.148	65.128	34.278	1.00	0.00	H
ATOM	5760	C	SER	606	10.417	62.159	34.738	1.00	0.00	C
ATOM	5761	O	SER	606	10.055	62.279	33.566	1.00	0.00	O
ATOM	5762	N	PHE	607	10.603	60.939	35.285	1.00	0.00	N
ATOM	5763	HN	PHE	607	10.730	60.817	36.290	1.00	0.00	H
ATOM	5764	CA	PHE	607	10.613	59.819	34.380	1.00	0.00	C
ATOM	5765	CB	PHE	607	11.125	58.494	34.999	1.00	0.00	C
ATOM	5766	CG	PHE	607	10.094	57.911	35.905	1.00	0.00	C
ATOM	5767	CD1	PHE	607	9.963	58.318	37.211	1.00	0.00	C
ATOM	5768	CD2	PHE	607	9.228	56.958	35.415	1.00	0.00	C
ATOM	5769	CE1	PHE	607	8.993	57.764	38.015	1.00	0.00	C

ATOM	5770	CE2	PHE	607	8.258	56.402	36.214	1.00	0.00	C
ATOM	5771	CZ	PHE	607	8.140	56.805	37.521	1.00	0.00	C
ATOM	5772	C	PHE	607	9.241	59.601	33.809	1.00	0.00	C
ATOM	5773	O	PHE	607	8.265	59.366	34.521	1.00	0.00	O
ATOM	5774	N	TRP	608	9.130	59.773	32.474	1.00	0.00	N
ATOM	5775	HN	TRP	608	9.942	60.154	31.989	1.00	0.00	H
ATOM	5776	CA	TRP	608	7.973	59.469	31.669	1.00	0.00	C
ATOM	5777	CB	TRP	608	7.508	58.010	31.832	1.00	0.00	C
ATOM	5778	CG	TRP	608	8.594	56.979	31.617	1.00	0.00	C
ATOM	5779	CD2	TRP	608	9.639	57.087	30.637	1.00	0.00	C
ATOM	5780	CD1	TRP	608	8.851	55.843	32.328	1.00	0.00	C
ATOM	5781	NE1	TRP	608	9.978	55.226	31.841	1.00	0.00	N
ATOM	5782	HE1	TRP	608	10.377	54.354	32.188	1.00	0.00	H
ATOM	5783	CE2	TRP	608	10.478	55.984	30.804	1.00	0.00	C
ATOM	5784	CE3	TRP	608	9.886	58.033	29.686	1.00	0.00	C
ATOM	5785	CZ2	TRP	608	11.579	55.809	30.016	1.00	0.00	C
ATOM	5786	CZ3	TRP	608	10.993	57.848	28.888	1.00	0.00	C
ATOM	5787	CH2	TRP	608	11.823	56.757	29.049	1.00	0.00	C
ATOM	5788	C	TRP	608	6.830	60.352	32.083	1.00	0.00	C
ATOM	5789	O	TRP	608	5.763	60.319	31.473	1.00	0.00	O
ATOM	5790	N	ARG	609	7.030	61.183	33.123	1.00	0.00	N
ATOM	5791	HN	ARG	609	7.959	61.235	33.541	1.00	0.00	H
ATOM	5792	CA	ARG	609	5.984	61.996	33.662	1.00	0.00	C
ATOM	5793	CB	ARG	609	6.393	62.644	34.988	1.00	0.00	C
ATOM	5794	CG	ARG	609	5.368	63.609	35.572	1.00	0.00	C
ATOM	5795	CD	ARG	609	5.846	64.224	36.887	1.00	0.00	C
ATOM	5796	NE	ARG	609	4.850	65.249	37.294	1.00	0.00	N
ATOM	5797	HE	ARG	609	4.277	65.715	36.591	1.00	0.00	H
ATOM	5798	CZ	ARG	609	4.707	65.563	38.614	1.00	0.00	C
ATOM	5799	NH1	ARG	609	5.458	64.917	39.553	1.00	0.00	N
ATOM	5800	1HH1	ARG	609	5.351	65.152	40.540	1.00	0.00	H
ATOM	5801	2HH1	ARG	609	6.130	64.204	39.271	1.00	0.00	H
ATOM	5802	NH2	ARG	609	3.808	66.517	38.991	1.00	0.00	N
ATOM	5803	1HH2	ARG	609	3.701	66.752	39.978	1.00	0.00	H
ATOM	5804	2HH2	ARG	609	3.247	67.000	38.289	1.00	0.00	H
ATOM	5805	C	ARG	609	5.632	63.059	32.687	1.00	0.00	C
ATOM	5806	O	ARG	609	4.461	63.319	32.429	1.00	0.00	O
ATOM	5807	N	ILE	610	6.660	63.677	32.092	1.00	0.00	N
ATOM	5808	HN	ILE	610	7.609	63.392	32.333	1.00	0.00	H
ATOM	5809	CA	ILE	610	6.480	64.716	31.136	1.00	0.00	C
ATOM	5810	CB	ILE	610	7.763	65.334	30.643	1.00	0.00	C
ATOM	5811	CG1	ILE	610	8.646	64.313	29.907	1.00	0.00	C
ATOM	5812	CG2	ILE	610	8.459	65.984	31.851	1.00	0.00	C
ATOM	5813	CD1	ILE	610	9.201	63.213	30.809	1.00	0.00	C
ATOM	5814	C	ILE	610	5.765	64.121	29.981	1.00	0.00	C
ATOM	5815	O	ILE	610	5.246	64.867	29.163	1.00	0.00	O
ATOM	5816	N	MET	611	5.893	62.793	29.771	1.00	0.00	N
ATOM	5817	HN	MET	611	6.544	62.253	30.341	1.00	0.00	H
ATOM	5818	CA	MET	611	5.121	62.131	28.752	1.00	0.00	C
ATOM	5819	CB	MET	611	5.531	60.663	28.542	1.00	0.00	C
ATOM	5820	CG	MET	611	4.789	59.987	27.386	1.00	0.00	C
ATOM	5821	SD	MET	611	5.215	58.239	27.124	1.00	0.00	S
ATOM	5822	CE	MET	611	4.278	57.643	28.561	1.00	0.00	C
ATOM	5823	C	MET	611	3.680	62.125	29.175	1.00	0.00	C
ATOM	5824	O	MET	611	2.781	62.427	28.391	1.00	0.00	O
ATOM	5825	N	LYS	612	3.425	61.793	30.457	1.00	0.00	N
ATOM	5826	HN	LYS	612	4.197	61.612	31.099	1.00	0.00	H
ATOM	5827	CA	LYS	612	2.068	61.694	30.920	1.00	0.00	C
ATOM	5828	CB	LYS	612	1.982	61.329	32.415	1.00	0.00	C
ATOM	5829	CG	LYS	612	2.703	60.039	32.822	1.00	0.00	C
ATOM	5830	CD	LYS	612	2.193	58.772	32.134	1.00	0.00	C
ATOM	5831	CE	LYS	612	2.731	57.481	32.761	1.00	0.00	C
ATOM	5832	NZ	LYS	612	4.211	57.494	32.784	1.00	0.00	N
ATOM	5833	HZ1	LYS	612	4.569	56.635	33.201	1.00	0.00	H
ATOM	5834	HZ2	LYS	612	4.576	58.324	33.252	1.00	0.00	H
ATOM	5835	HZ3	LYS	612	4.603	57.658	31.857	1.00	0.00	H
ATOM	5836	C	LYS	612	1.473	63.055	30.802	1.00	0.00	C
ATOM	5837	O	LYS	612	0.436	63.265	30.174	1.00	0.00	O
ATOM	5838	N	LEU	613	2.187	64.030	31.382	1.00	0.00	N
ATOM	5839	HN	LEU	613	3.063	63.772	31.837	1.00	0.00	H
ATOM	5840	CA	LEU	613	1.804	65.402	31.405	1.00	0.00	C
ATOM	5841	CB	LEU	613	2.753	66.291	32.231	1.00	0.00	C
ATOM	5842	CG	LEU	613	2.720	65.989	33.742	1.00	0.00	C
ATOM	5843	CD1	LEU	613	3.613	66.964	34.527	1.00	0.00	C

ATOM	5844	CD2	LEU	613	1.278	65.948	34.272	1.00	0.00	C
ATOM	5845	C	LEU	613	1.836	65.872	29.999	1.00	0.00	C
ATOM	5846	O	LEU	613	1.110	66.796	29.645	1.00	0.00	O
ATOM	5847	N	ASN	614	2.684	65.228	29.170	1.00	0.00	N
ATOM	5848	HN	ASN	614	3.189	64.415	29.522	1.00	0.00	H
ATOM	5849	CA	ASN	614	2.904	65.642	27.811	1.00	0.00	C
ATOM	5850	CB	ASN	614	3.662	64.592	26.970	1.00	0.00	C
ATOM	5851	CG	ASN	614	4.428	65.264	25.842	1.00	0.00	C
ATOM	5852	OD1	ASN	614	4.420	66.487	25.712	1.00	0.00	O
ATOM	5853	ND2	ASN	614	5.126	64.439	25.014	1.00	0.00	N
ATOM	5854	1HD2	ASN	614	5.133	63.425	25.122	1.00	0.00	H
ATOM	5855	2HD2	ASN	614	5.640	64.890	24.257	1.00	0.00	H
ATOM	5856	C	ASN	614	1.555	65.711	27.193	1.00	0.00	C
ATOM	5857	O	ASN	614	1.102	66.770	26.771	1.00	0.00	O
ATOM	5858	N	LEU	615	0.826	64.594	27.276	1.00	0.00	N
ATOM	5859	HN	LEU	615	1.224	63.795	27.770	1.00	0.00	H
ATOM	5860	CA	LEU	615	-0.481	64.457	26.711	1.00	0.00	C
ATOM	5861	CB	LEU	615	-1.050	63.049	27.007	1.00	0.00	C
ATOM	5862	CG	LEU	615	-2.426	62.676	26.408	1.00	0.00	C
ATOM	5863	CD1	LEU	615	-2.774	61.220	26.757	1.00	0.00	C
ATOM	5864	CD2	LEU	615	-3.555	63.622	26.842	1.00	0.00	C
ATOM	5865	C	LEU	615	-1.345	65.492	27.362	1.00	0.00	C
ATOM	5866	O	LEU	615	-2.254	66.028	26.734	1.00	0.00	O
ATOM	5867	N	THR	616	-1.101	65.802	28.649	1.00	0.00	N
ATOM	5868	HN	THR	616	-0.353	65.336	29.162	1.00	0.00	H
ATOM	5869	CA	THR	616	-1.913	66.802	29.287	1.00	0.00	C
ATOM	5870	CB	THR	616	-1.474	67.092	30.694	1.00	0.00	C
ATOM	5871	OG1	THR	616	-1.529	65.912	31.482	1.00	0.00	O
ATOM	5872	HG1	THR	616	-1.251	66.095	32.372	1.00	0.00	H
ATOM	5873	CG2	THR	616	-2.400	68.167	31.285	1.00	0.00	C
ATOM	5874	C	THR	616	-1.741	68.065	28.500	1.00	0.00	C
ATOM	5875	O	THR	616	-2.696	68.764	28.172	1.00	0.00	O
ATOM	5876	N	GLU	617	-0.481	68.343	28.145	1.00	0.00	N
ATOM	5877	HN	GLU	617	0.232	67.692	28.474	1.00	0.00	H
ATOM	5878	CA	GLU	617	-0.014	69.444	27.359	1.00	0.00	C
ATOM	5879	CB	GLU	617	1.517	69.580	27.358	1.00	0.00	C
ATOM	5880	CG	GLU	617	2.095	70.298	28.582	1.00	0.00	C
ATOM	5881	CD	GLU	617	2.079	69.354	29.772	1.00	0.00	C
ATOM	5882	OE1	GLU	617	0.998	69.214	30.404	1.00	0.00	O
ATOM	5883	OE2	GLU	617	3.150	68.757	30.064	1.00	0.00	O
ATOM	5884	C	GLU	617	-0.455	69.233	25.950	1.00	0.00	C
ATOM	5885	O	GLU	617	0.093	69.848	25.043	1.00	0.00	O
ATOM	5886	N	TRP	618	-1.312	68.226	25.711	1.00	0.00	N
ATOM	5887	HN	TRP	618	-1.721	67.717	26.495	1.00	0.00	H
ATOM	5888	CA	TRP	618	-1.660	67.856	24.371	1.00	0.00	C
ATOM	5889	CB	TRP	618	-0.978	66.499	24.121	1.00	0.00	C
ATOM	5890	CG	TRP	618	-1.121	65.800	22.799	1.00	0.00	C
ATOM	5891	CD2	TRP	618	-1.972	64.665	22.580	1.00	0.00	C
ATOM	5892	CD1	TRP	618	-0.448	66.013	21.635	1.00	0.00	C
ATOM	5893	NE1	TRP	618	-0.828	65.079	20.699	1.00	0.00	N
ATOM	5894	HE1	TRP	618	-0.476	65.016	19.744	1.00	0.00	H
ATOM	5895	CE2	TRP	618	-1.764	64.242	21.269	1.00	0.00	C
ATOM	5896	CE3	TRP	618	-2.844	64.020	23.409	1.00	0.00	C
ATOM	5897	CZ2	TRP	618	-2.431	63.162	20.762	1.00	0.00	C
ATOM	5898	CH2	TRP	618	-3.523	62.938	22.892	1.00	0.00	C
ATOM	5899	CH2	TRP	618	-3.320	62.517	21.594	1.00	0.00	C
ATOM	5900	C	TRP	618	-3.155	67.702	24.187	1.00	0.00	C
ATOM	5901	O	TRP	618	-3.810	67.021	24.976	1.00	0.00	O
ATOM	5902	N	PRO	619	-3.739	68.403	23.229	1.00	0.00	N
ATOM	5903	CA	PRO	619	-5.113	68.202	22.818	1.00	0.00	C
ATOM	5904	CD	PRO	619	-3.183	69.639	22.710	1.00	0.00	C
ATOM	5905	CB	PRO	619	-5.478	69.413	21.958	1.00	0.00	C
ATOM	5906	CG	PRO	619	-4.119	70.012	21.547	1.00	0.00	C
ATOM	5907	C	PRO	619	-5.324	66.882	22.128	1.00	0.00	C
ATOM	5908	O	PRO	619	-5.966	66.003	22.701	1.00	0.00	O
ATOM	5909	N	TYR	620	-4.830	66.752	20.868	1.00	0.00	N
ATOM	5910	HN	TYR	620	-4.489	67.589	20.395	1.00	0.00	H
ATOM	5911	CA	TYR	620	-4.762	65.494	20.164	1.00	0.00	C
ATOM	5912	CB	TYR	620	-6.070	64.679	20.098	1.00	0.00	C
ATOM	5913	CG	TYR	620	-7.068	65.301	19.194	1.00	0.00	C
ATOM	5914	CD1	TYR	620	-6.959	65.135	17.834	1.00	0.00	C
ATOM	5915	CD2	TYR	620	-8.124	66.017	19.706	1.00	0.00	C
ATOM	5916	CE1	TYR	620	-7.886	65.693	16.989	1.00	0.00	C
ATOM	5917	CE2	TYR	620	-9.055	66.577	18.864	1.00	0.00	C

ATOM	5918	CZ	TYR	620	-8.935	66.415	17.504	1.00	0.00	C
ATOM	5919	OH	TYR	620	-9.890	66.987	16.637	1.00	0.00	O
ATOM	5920	HH	TYR	620	-9.807	66.875	15.697	1.00	0.00	H
ATOM	5921	C	TYR	620	-4.198	65.719	18.781	1.00	0.00	C
ATOM	5922	O	TYR	620	-4.575	66.656	18.078	1.00	0.00	O
ATOM	5923	N	PHE	621	-3.134	64.959	18.462	1.00	0.00	N
ATOM	5924	HN	PHE	621	-2.827	64.325	19.200	1.00	0.00	H
ATOM	5925	CA	PHE	621	-2.361	64.894	17.255	1.00	0.00	C
ATOM	5926	CB	PHE	621	-0.908	65.346	17.450	1.00	0.00	C
ATOM	5927	CG	PHE	621	-1.044	66.803	17.756	1.00	0.00	C
ATOM	5928	CD1	PHE	621	-1.441	67.676	16.776	1.00	0.00	C
ATOM	5929	CD2	PHE	621	-0.842	67.305	19.019	1.00	0.00	C
ATOM	5930	CE1	PHE	621	-1.593	69.019	17.018	1.00	0.00	C
ATOM	5931	CE2	PHE	621	-0.989	68.649	19.277	1.00	0.00	C
ATOM	5932	CZ	PHE	621	-1.361	69.513	18.277	1.00	0.00	C
ATOM	5933	C	PHE	621	-2.422	63.673	16.400	1.00	0.00	C
ATOM	5934	O	PHE	621	-1.526	63.550	15.571	1.00	0.00	O
ATOM	5935	N	VAL	622	-3.314	62.691	16.638	1.00	0.00	N
ATOM	5936	HN	VAL	622	-4.068	62.868	17.302	1.00	0.00	H
ATOM	5937	CA	VAL	622	-3.250	61.398	15.995	1.00	0.00	C
ATOM	5938	CB	VAL	622	-4.506	60.597	16.180	1.00	0.00	C
ATOM	5939	CG1	VAL	622	-5.671	61.352	15.518	1.00	0.00	C
ATOM	5940	CG2	VAL	622	-4.278	59.189	15.604	1.00	0.00	C
ATOM	5941	C	VAL	622	-3.030	61.549	14.521	1.00	0.00	C
ATOM	5942	O	VAL	622	-2.363	60.725	13.898	1.00	0.00	O
ATOM	5943	N	VAL	623	-3.563	62.620	13.922	1.00	0.00	N
ATOM	5944	HN	VAL	623	-4.122	63.279	14.463	1.00	0.00	H
ATOM	5945	CA	VAL	623	-3.351	62.844	12.525	1.00	0.00	C
ATOM	5946	CB	VAL	623	-3.894	64.177	12.117	1.00	0.00	C
ATOM	5947	CG1	VAL	623	-3.387	65.227	13.123	1.00	0.00	C
ATOM	5948	CG2	VAL	623	-3.439	64.459	10.676	1.00	0.00	C
ATOM	5949	C	VAL	623	-1.875	62.853	12.235	1.00	0.00	C
ATOM	5950	O	VAL	623	-1.416	62.152	11.334	1.00	0.00	O
ATOM	5951	N	GLY	624	-1.072	63.614	13.002	1.00	0.00	N
ATOM	5952	HN	GLY	624	-1.456	64.135	13.790	1.00	0.00	H
ATOM	5953	CA	GLY	624	0.327	63.685	12.702	1.00	0.00	C
ATOM	5954	C	GLY	624	0.920	62.316	12.789	1.00	0.00	C
ATOM	5955	O	GLY	624	1.534	61.853	11.832	1.00	0.00	O
ATOM	5956	N	VAL	625	0.684	61.591	13.899	1.00	0.00	N
ATOM	5957	HN	VAL	625	0.079	61.957	14.634	1.00	0.00	H
ATOM	5958	CA	VAL	625	1.292	60.297	14.037	1.00	0.00	C
ATOM	5959	CB	VAL	625	0.958	59.588	15.319	1.00	0.00	C
ATOM	5960	CG1	VAL	625	1.474	60.436	16.493	1.00	0.00	C
ATOM	5961	CG2	VAL	625	-0.548	59.293	15.365	1.00	0.00	C
ATOM	5962	C	VAL	625	0.804	59.454	12.904	1.00	0.00	C
ATOM	5963	O	VAL	625	1.502	58.550	12.450	1.00	0.00	O
ATOM	5964	N	PHE	626	-0.419	59.738	12.418	1.00	0.00	N
ATOM	5965	HN	PHE	626	-0.948	60.516	12.812	1.00	0.00	H
ATOM	5966	CA	PHE	626	-0.988	58.963	11.354	1.00	0.00	C
ATOM	5967	CB	PHE	626	-2.386	59.468	10.953	1.00	0.00	C
ATOM	5968	CG	PHE	626	-2.922	58.571	9.889	1.00	0.00	C
ATOM	5969	CD1	PHE	626	-2.632	58.797	8.562	1.00	0.00	C
ATOM	5970	CD2	PHE	626	-3.718	57.499	10.221	1.00	0.00	C
ATOM	5971	CE1	PHE	626	-3.127	57.968	7.582	1.00	0.00	C
ATOM	5972	CE2	PHE	626	-4.216	56.667	9.246	1.00	0.00	C
ATOM	5973	CZ	PHE	626	-3.921	56.900	7.924	1.00	0.00	C
ATOM	5974	C	PHE	626	-0.107	59.038	10.139	1.00	0.00	C
ATOM	5975	O	PHE	626	0.347	58.013	9.633	1.00	0.00	O
ATOM	5976	N	CYS	627	0.213	60.256	9.667	1.00	0.00	N
ATOM	5977	HN	CYS	627	-0.118	61.092	10.149	1.00	0.00	H
ATOM	5978	CA	CYS	627	1.019	60.382	8.487	1.00	0.00	C
ATOM	5979	CB	CYS	627	1.144	61.834	7.984	1.00	0.00	C
ATOM	5980	SG	CYS	627	1.817	62.989	9.215	1.00	0.00	S
ATOM	5981	C	CYS	627	2.373	59.835	8.798	1.00	0.00	C
ATOM	5982	O	CYS	627	3.078	59.377	7.899	1.00	0.00	O
ATOM	5983	N	ALA	628	2.765	59.860	10.089	1.00	0.00	N
ATOM	5984	HN	ALA	628	2.135	60.221	10.806	1.00	0.00	H
ATOM	5985	CA	ALA	628	4.068	59.379	10.455	1.00	0.00	C
ATOM	5986	CB	ALA	628	4.293	59.374	11.977	1.00	0.00	C
ATOM	5987	C	ALA	628	4.144	57.975	9.980	1.00	0.00	C
ATOM	5988	O	ALA	628	5.108	57.578	9.328	1.00	0.00	O
ATOM	5989	N	ILE	629	3.071	57.210	10.212	1.00	0.00	N
ATOM	5990	HN	ILE	629	2.249	57.601	10.671	1.00	0.00	H
ATOM	5991	CA	ILE	629	3.089	55.843	9.811	1.00	0.00	C

ATOM	5992	CB	ILE	629	1.798	55.158	10.133	1.00	0.00	C
ATOM	5993	CG1	ILE	629	1.409	55.447	11.594	1.00	0.00	C
ATOM	5994	CG2	ILE	629	1.959	53.663	9.810	1.00	0.00	C
ATOM	5995	CD1	ILE	629	2.505	55.129	12.607	1.00	0.00	C
ATOM	5996	C	ILE	629	3.245	55.807	8.316	1.00	0.00	C
ATOM	5997	O	ILE	629	4.062	55.054	7.789	1.00	0.00	O
ATOM	5998	N	ILE	630	2.488	56.654	7.584	1.00	0.00	N
ATOM	5999	HN	ILE	630	1.904	57.349	8.049	1.00	0.00	H
ATOM	6000	CA	ILE	630	2.507	56.574	6.147	1.00	0.00	C
ATOM	6001	CB	ILE	630	1.457	57.419	5.461	1.00	0.00	C
ATOM	6002	CG1	ILE	630	1.702	58.933	5.574	1.00	0.00	C
ATOM	6003	CG2	ILE	630	0.103	56.986	6.045	1.00	0.00	C
ATOM	6004	CD1	ILE	630	2.737	59.469	4.582	1.00	0.00	C
ATOM	6005	C	ILE	630	3.858	56.921	5.610	1.00	0.00	C
ATOM	6006	O	ILE	630	4.346	56.248	4.701	1.00	0.00	O
ATOM	6007	N	ASN	631	4.521	57.961	6.159	1.00	0.00	N
ATOM	6008	HN	ASN	631	4.149	58.474	6.958	1.00	0.00	H
ATOM	6009	CA	ASN	631	5.774	58.306	5.560	1.00	0.00	C
ATOM	6010	CB	ASN	631	6.396	59.662	5.977	1.00	0.00	C
ATOM	6011	CG	ASN	631	6.923	59.703	7.395	1.00	0.00	C
ATOM	6012	OD1	ASN	631	7.016	58.687	8.078	1.00	0.00	O
ATOM	6013	ND2	ASN	631	7.302	60.928	7.848	1.00	0.00	N
ATOM	6014	1HD2	ASN	631	7.657	60.956	8.804	1.00	0.00	H
ATOM	6015	2HD2	ASN	631	7.225	61.772	7.281	1.00	0.00	H
ATOM	6016	C	ASN	631	6.709	57.163	5.731	1.00	0.00	C
ATOM	6017	O	ASN	631	7.549	56.901	4.867	1.00	0.00	O
ATOM	6018	N	GLY	632	6.557	56.421	6.841	1.00	0.00	N
ATOM	6019	HN	GLY	632	5.846	56.647	7.536	1.00	0.00	H
ATOM	6020	CA	GLY	632	7.424	55.311	7.009	1.00	0.00	C
ATOM	6021	C	GLY	632	7.215	54.370	5.868	1.00	0.00	C
ATOM	6022	O	GLY	632	8.169	53.975	5.207	1.00	0.00	O
ATOM	6023	N	GLY	633	5.952	54.047	5.548	1.00	0.00	N
ATOM	6024	HN	GLY	633	5.179	54.477	6.057	1.00	0.00	H
ATOM	6025	CA	GLY	633	5.672	53.104	4.499	1.00	0.00	C
ATOM	6026	C	GLY	633	6.234	53.634	3.222	1.00	0.00	C
ATOM	6027	O	GLY	633	6.709	52.884	2.369	1.00	0.00	O
ATOM	6028	N	LEU	634	6.215	54.965	3.073	1.00	0.00	N
ATOM	6029	HN	LEU	634	5.896	55.549	3.846	1.00	0.00	H
ATOM	6030	CA	LEU	634	6.632	55.585	1.855	1.00	0.00	C
ATOM	6031	CB	LEU	634	6.605	57.117	1.997	1.00	0.00	C
ATOM	6032	CG	LEU	634	6.993	57.901	0.734	1.00	0.00	C
ATOM	6033	CD1	LEU	634	6.019	57.618	-0.422	1.00	0.00	C
ATOM	6034	CD2	LEU	634	7.111	59.401	1.053	1.00	0.00	C
ATOM	6035	C	LEU	634	8.040	55.140	1.560	1.00	0.00	C
ATOM	6036	O	LEU	634	8.377	54.866	0.406	1.00	0.00	O
ATOM	6037	N	GLN	635	8.898	55.051	2.600	1.00	0.00	N
ATOM	6038	HN	GLN	635	8.564	55.258	3.541	1.00	0.00	H
ATOM	6039	CA	GLN	635	10.274	54.671	2.409	1.00	0.00	C
ATOM	6040	CB	GLN	635	11.102	54.821	3.703	1.00	0.00	C
ATOM	6041	CG	GLN	635	12.607	54.608	3.527	1.00	0.00	C
ATOM	6042	CD	GLN	635	13.224	55.943	3.140	1.00	0.00	C
ATOM	6043	OE1	GLN	635	13.326	56.855	3.960	1.00	0.00	O
ATOM	6044	NE2	GLN	635	13.646	56.064	1.853	1.00	0.00	N
ATOM	6045	1HE2	GLN	635	13.561	55.308	1.173	1.00	0.00	H
ATOM	6046	2HE2	GLN	635	14.060	56.959	1.593	1.00	0.00	H
ATOM	6047	C	GLN	635	10.392	53.257	1.896	1.00	0.00	C
ATOM	6048	O	GLN	635	10.990	53.069	0.835	1.00	0.00	O
ATOM	6049	N	PRO	636	9.823	52.242	2.512	1.00	0.00	N
ATOM	6050	CA	PRO	636	9.999	50.953	1.911	1.00	0.00	C
ATOM	6051	CD	PRO	636	9.823	52.108	3.959	1.00	0.00	C
ATOM	6052	CB	PRO	636	9.465	49.948	2.917	1.00	0.00	C
ATOM	6053	CG	PRO	636	9.815	50.602	4.262	1.00	0.00	C
ATOM	6054	C	PRO	636	9.369	50.875	0.558	1.00	0.00	C
ATOM	6055	O	PRO	636	9.799	50.069	-0.266	1.00	0.00	O
ATOM	6056	N	ALA	637	8.363	51.720	0.298	1.00	0.00	N
ATOM	6057	HN	ALA	637	8.071	52.394	1.005	1.00	0.00	H
ATOM	6058	CA	ALA	637	7.695	51.681	-0.970	1.00	0.00	C
ATOM	6059	CB	ALA	637	6.577	52.731	-1.080	1.00	0.00	C
ATOM	6060	C	ALA	637	8.703	51.965	-2.039	1.00	0.00	C
ATOM	6061	O	ALA	637	8.719	51.323	-3.088	1.00	0.00	O
ATOM	6062	N	PHE	638	9.605	52.924	-1.778	1.00	0.00	N
ATOM	6063	HN	PHE	638	9.589	53.403	-0.877	1.00	0.00	H
ATOM	6064	CA	PHE	638	10.589	53.280	-2.753	1.00	0.00	C
ATOM	6065	CB	PHE	638	11.512	54.427	-2.311	1.00	0.00	C

ATOM	6066	CG	PHE	638	12.573	54.517	-3.352	1.00	0.00	C
ATOM	6067	CD1	PHE	638	12.351	55.171	-4.543	1.00	0.00	C
ATOM	6068	CD2	PHE	638	13.797	53.932	-3.127	1.00	0.00	C
ATOM	6069	CE1	PHE	638	13.343	55.239	-5.493	1.00	0.00	C
ATOM	6070	CE2	PHE	638	14.791	53.997	-4.073	1.00	0.00	C
ATOM	6071	CZ	PHE	638	14.564	54.652	-5.260	1.00	0.00	C
ATOM	6072	C	PHE	638	11.444	52.106	-3.019	1.00	0.00	C
ATOM	6073	O	PHE	638	11.854	51.867	-4.156	1.00	0.00	O
ATOM	6074	N	ALA	639	11.722	51.335	-1.960	1.00	0.00	N
ATOM	6075	HN	ALA	639	11.320	51.543	-1.046	1.00	0.00	H
ATOM	6076	CA	ALA	639	12.588	50.221	-2.135	1.00	0.00	C
ATOM	6077	CB	ALA	639	12.728	49.425	-0.841	1.00	0.00	C
ATOM	6078	C	ALA	639	12.006	49.324	-3.208	1.00	0.00	C
ATOM	6079	O	ALA	639	12.734	48.866	-4.088	1.00	0.00	O
ATOM	6080	N	ILE	640	10.679	49.068	-3.182	1.00	0.00	N
ATOM	6081	HN	ILE	640	10.106	49.490	-2.451	1.00	0.00	H
ATOM	6082	CA	ILE	640	10.049	48.210	-4.164	1.00	0.00	C
ATOM	6083	CB	ILE	640	8.684	47.717	-3.760	1.00	0.00	C
ATOM	6084	CG1	ILE	640	8.267	46.533	-4.649	1.00	0.00	C
ATOM	6085	CG2	ILE	640	7.694	48.889	-3.812	1.00	0.00	C
ATOM	6086	CD1	ILE	640	7.041	45.783	-4.129	1.00	0.00	C
ATOM	6087	C	ILE	640	9.918	48.814	-5.535	1.00	0.00	C
ATOM	6088	O	ILE	640	10.189	48.155	-6.539	1.00	0.00	O
ATOM	6089	N	ILE	641	9.498	50.089	-5.632	1.00	0.00	N
ATOM	6090	HN	ILE	641	9.360	50.652	-4.793	1.00	0.00	H
ATOM	6091	CA	ILE	641	9.246	50.648	-6.931	1.00	0.00	C
ATOM	6092	CB	ILE	641	8.674	52.041	-6.855	1.00	0.00	C
ATOM	6093	CG1	ILE	641	8.431	52.631	-8.258	1.00	0.00	C
ATOM	6094	CG2	ILE	641	9.544	52.869	-5.902	1.00	0.00	C
ATOM	6095	CD1	ILE	641	7.376	51.885	-9.069	1.00	0.00	C
ATOM	6096	C	ILE	641	10.511	50.602	-7.733	1.00	0.00	C
ATOM	6097	O	ILE	641	10.485	50.296	-8.926	1.00	0.00	O
ATOM	6098	N	PHE	642	11.654	50.910	-7.094	1.00	0.00	N
ATOM	6099	HN	PHE	642	11.610	51.192	-6.115	1.00	0.00	H
ATOM	6100	CA	PHE	642	12.935	50.855	-7.744	1.00	0.00	C
ATOM	6101	CB	PHE	642	14.046	51.390	-6.822	1.00	0.00	C
ATOM	6102	CG	PHE	642	15.376	51.015	-7.374	1.00	0.00	C
ATOM	6103	CD1	PHE	642	16.018	51.811	-8.294	1.00	0.00	C
ATOM	6104	CD2	PHE	642	15.982	49.850	-6.962	1.00	0.00	C
ATOM	6105	CE1	PHE	642	17.248	51.445	-8.789	1.00	0.00	C
ATOM	6106	CE2	PHE	642	17.211	49.481	-7.453	1.00	0.00	C
ATOM	6107	CZ	PHE	642	17.847	50.282	-8.370	1.00	0.00	C
ATOM	6108	C	PHE	642	13.276	49.454	-8.121	1.00	0.00	C
ATOM	6109	O	PHE	642	13.603	49.173	-9.275	1.00	0.00	O
ATOM	6110	N	SER	643	13.146	48.527	-7.158	1.00	0.00	N
ATOM	6111	HN	SER	643	12.776	48.794	-6.246	1.00	0.00	H
ATOM	6112	CA	SER	643	13.522	47.170	-7.401	1.00	0.00	C
ATOM	6113	CB	SER	643	13.252	46.263	-6.187	1.00	0.00	C
ATOM	6114	OG	SER	643	11.874	46.294	-5.845	1.00	0.00	O
ATOM	6115	HG	SER	643	11.707	45.734	-5.096	1.00	0.00	H
ATOM	6116	C	SER	643	12.705	46.686	-8.553	1.00	0.00	C
ATOM	6117	O	SER	643	13.151	45.846	-9.332	1.00	0.00	O
ATOM	6118	N	LYS	644	11.476	47.213	-8.688	1.00	0.00	N
ATOM	6119	HN	LYS	644	11.148	47.913	-8.023	1.00	0.00	H
ATOM	6120	CA	LYS	644	10.624	46.796	-9.763	1.00	0.00	C
ATOM	6121	CB	LYS	644	9.211	47.397	-9.663	1.00	0.00	C
ATOM	6122	CG	LYS	644	8.271	46.966	-10.794	1.00	0.00	C
ATOM	6123	CD	LYS	644	6.801	47.308	-10.532	1.00	0.00	C
ATOM	6124	CE	LYS	644	5.857	46.934	-11.678	1.00	0.00	C
ATOM	6125	NZ	LYS	644	5.397	45.537	-11.521	1.00	0.00	N
ATOM	6126	HZ1	LYS	644	4.768	45.288	-12.284	1.00	0.00	H
ATOM	6127	HZ2	LYS	644	4.972	45.375	-10.608	1.00	0.00	H
ATOM	6128	HZ3	LYS	644	6.177	44.885	-11.440	1.00	0.00	H
ATOM	6129	C	LYS	644	11.195	47.219	-11.080	1.00	0.00	C
ATOM	6130	O	LYS	644	11.300	46.403	-11.992	1.00	0.00	O
ATOM	6131	N	ILE	645	11.625	48.493	-11.206	1.00	0.00	N
ATOM	6132	HN	ILE	645	11.657	49.106	-10.391	1.00	0.00	H
ATOM	6133	CA	ILE	645	12.037	48.981	-12.493	1.00	0.00	C
ATOM	6134	CB	ILE	645	12.519	50.396	-12.459	1.00	0.00	C
ATOM	6135	CG1	ILE	645	11.440	51.317	-11.891	1.00	0.00	C
ATOM	6136	CG2	ILE	645	12.961	50.779	-13.881	1.00	0.00	C
ATOM	6137	CD1	ILE	645	11.941	52.737	-11.668	1.00	0.00	C
ATOM	6138	C	ILE	645	13.197	48.194	-12.971	1.00	0.00	C
ATOM	6139	O	ILE	645	13.160	47.634	-14.065	1.00	0.00	O

ATOM	6140	N	ILE	646	14.235	48.075	-12.129	1.00	0.00	N
ATOM	6141	HN	ILE	646	14.187	48.469	-11.189	1.00	0.00	H
ATOM	6142	CA	ILE	646	15.406	47.390	-12.566	1.00	0.00	C
ATOM	6143	CB	ILE	646	16.499	47.340	-11.532	1.00	0.00	C
ATOM	6144	CG1	ILE	646	17.772	46.726	-12.138	1.00	0.00	C
ATOM	6145	CG2	ILE	646	15.982	46.619	-10.276	1.00	0.00	C
ATOM	6146	CD1	ILE	646	19.010	46.900	-11.260	1.00	0.00	C
ATOM	6147	C	ILE	646	14.995	46.005	-12.897	1.00	0.00	C
ATOM	6148	O	ILE	646	15.321	45.526	-13.973	1.00	0.00	O
ATOM	6149	N	GLY	647	14.186	45.354	-12.045	1.00	0.00	N
ATOM	6150	HN	GLY	647	13.822	45.816	-11.211	1.00	0.00	H
ATOM	6151	CA	GLY	647	13.849	43.993	-12.340	1.00	0.00	C
ATOM	6152	C	GLY	647	13.131	43.905	-13.654	1.00	0.00	C
ATOM	6153	O	GLY	647	13.512	43.146	-14.542	1.00	0.00	O
ATOM	6154	N	VAL	648	12.108	44.747	-13.837	1.00	0.00	N
ATOM	6155	HN	VAL	648	11.920	45.442	-13.115	1.00	0.00	H
ATOM	6156	CA	VAL	648	11.261	44.724	-14.996	1.00	0.00	C
ATOM	6157	CB	VAL	648	10.075	45.650	-14.873	1.00	0.00	C
ATOM	6158	CG1	VAL	648	10.564	47.104	-14.783	1.00	0.00	C
ATOM	6159	CG2	VAL	648	9.123	45.391	-16.052	1.00	0.00	C
ATOM	6160	C	VAL	648	12.053	45.110	-16.211	1.00	0.00	C
ATOM	6161	O	VAL	648	11.534	45.067	-17.323	1.00	0.00	O
ATOM	6162	N	PHE	649	13.212	45.757	-16.015	1.00	0.00	N
ATOM	6163	HN	PHE	649	13.484	46.007	-15.064	1.00	0.00	H
ATOM	6164	CA	PHE	649	14.082	46.109	-17.104	1.00	0.00	C
ATOM	6165	CB	PHE	649	14.723	47.490	-16.882	1.00	0.00	C
ATOM	6166	CG	PHE	649	15.263	47.966	-18.185	1.00	0.00	C
ATOM	6167	CD1	PHE	649	14.461	48.702	-19.028	1.00	0.00	C
ATOM	6168	CD2	PHE	649	16.553	47.682	-18.571	1.00	0.00	C
ATOM	6169	CE1	PHE	649	14.938	49.151	-20.236	1.00	0.00	C
ATOM	6170	CE2	PHE	649	17.035	48.128	-19.778	1.00	0.00	C
ATOM	6171	CZ	PHE	649	16.227	48.863	-20.613	1.00	0.00	C
ATOM	6172	C	PHE	649	15.182	45.115	-17.357	1.00	0.00	C
ATOM	6173	O	PHE	649	15.747	45.064	-18.449	1.00	0.00	O
ATOM	6174	N	THR	650	15.618	44.426	-16.286	1.00	0.00	N
ATOM	6175	HN	THR	650	15.135	44.587	-15.402	1.00	0.00	H
ATOM	6176	CA	THR	650	16.702	43.484	-16.276	1.00	0.00	C
ATOM	6177	CB	THR	650	17.166	43.108	-14.898	1.00	0.00	C
ATOM	6178	OG1	THR	650	16.087	42.582	-14.141	1.00	0.00	O
ATOM	6179	HG1	THR	650	15.710	41.820	-14.565	1.00	0.00	H
ATOM	6180	CG2	THR	650	17.777	44.341	-14.211	1.00	0.00	C
ATOM	6181	C	THR	650	16.292	42.227	-16.958	1.00	0.00	C
ATOM	6182	O	THR	650	17.134	41.521	-17.515	1.00	0.00	O
ATOM	6183	N	ARG	651	15.002	41.857	-16.837	1.00	0.00	N
ATOM	6184	HN	ARG	651	14.354	42.382	-16.250	1.00	0.00	H
ATOM	6185	CA	ARG	651	14.575	40.697	-17.564	1.00	0.00	C
ATOM	6186	CB	ARG	651	14.800	39.383	-16.809	1.00	0.00	C
ATOM	6187	CG	ARG	651	16.258	39.098	-16.445	1.00	0.00	C
ATOM	6188	CD	ARG	651	16.740	39.875	-15.220	1.00	0.00	C
ATOM	6189	NE	ARG	651	15.689	39.733	-14.174	1.00	0.00	N
ATOM	6190	HE	ARG	651	15.020	40.488	-14.020	1.00	0.00	H
ATOM	6191	CZ	ARG	651	15.617	38.597	-13.421	1.00	0.00	C
ATOM	6192	NH1	ARG	651	16.451	37.549	-13.683	1.00	0.00	N
ATOM	6193	1HH1	ARG	651	17.135	37.617	-14.436	1.00	0.00	H
ATOM	6194	2HH1	ARG	651	16.397	36.700	-13.120	1.00	0.00	H
ATOM	6195	NH2	ARG	651	14.701	38.506	-12.413	1.00	0.00	N
ATOM	6196	1HH2	ARG	651	14.078	39.289	-12.217	1.00	0.00	H
ATOM	6197	2HH2	ARG	651	14.647	37.657	-11.850	1.00	0.00	H
ATOM	6198	C	ARG	651	13.104	40.816	-17.834	1.00	0.00	C
ATOM	6199	O	ARG	651	12.308	40.887	-16.897	1.00	0.00	O
ATOM	6200	N	ILE	652	12.702	40.873	-19.128	1.00	0.00	N
ATOM	6201	HN	ILE	652	13.394	40.854	-19.877	1.00	0.00	H
ATOM	6202	CA	ILE	652	11.300	40.960	-19.446	1.00	0.00	C
ATOM	6203	CB	ILE	652	10.635	42.166	-18.839	1.00	0.00	C
ATOM	6204	CG1	ILE	652	9.104	42.006	-18.826	1.00	0.00	C
ATOM	6205	CG2	ILE	652	11.138	43.413	-19.585	1.00	0.00	C
ATOM	6206	CD1	ILE	652	8.386	43.038	-17.959	1.00	0.00	C
ATOM	6207	C	ILE	652	11.135	41.035	-20.947	1.00	0.00	C
ATOM	6208	O	ILE	652	12.101	40.887	-21.694	1.00	0.00	O
ATOM	6209	N	ASP	653	9.881	41.250	-21.422	1.00	0.00	N
ATOM	6210	HN	ASP	653	9.118	41.337	-20.751	1.00	0.00	H
ATOM	6211	CA	ASP	653	9.572	41.362	-22.826	1.00	0.00	C
ATOM	6212	CB	ASP	653	8.069	41.244	-23.145	1.00	0.00	C
ATOM	6213	CG	ASP	653	7.901	40.956	-24.635	1.00	0.00	C

ATOM	6214	OD1	ASP	653	8.936	40.786	-25.332	1.00	0.00	O
ATOM	6215	OD2	ASP	653	6.730	40.895	-25.095	1.00	0.00	O
ATOM	6216	C	ASP	653	10.049	42.686	-23.348	1.00	0.00	C
ATOM	6217	O	ASP	653	9.934	43.715	-22.685	1.00	0.00	O
ATOM	6218	N	ASP	654	10.577	42.683	-24.590	1.00	0.00	N
ATOM	6219	HN	ASP	654	10.561	41.817	-25.128	1.00	0.00	H
ATOM	6220	CA	ASP	654	11.160	43.853	-25.182	1.00	0.00	C
ATOM	6221	CB	ASP	654	11.857	43.572	-26.529	1.00	0.00	C
ATOM	6222	CG	ASP	654	13.149	42.817	-26.249	1.00	0.00	C
ATOM	6223	OD1	ASP	654	13.793	43.114	-25.207	1.00	0.00	O
ATOM	6224	OD2	ASP	654	13.516	41.940	-27.077	1.00	0.00	O
ATOM	6225	C	ASP	654	10.156	44.944	-25.390	1.00	0.00	C
ATOM	6226	O	ASP	654	10.441	46.091	-25.051	1.00	0.00	O
ATOM	6227	N	PRO	655	8.996	44.676	-25.918	1.00	0.00	N
ATOM	6228	CA	PRO	655	8.099	45.780	-26.113	1.00	0.00	C
ATOM	6229	CD	PRO	655	8.868	43.687	-26.977	1.00	0.00	C
ATOM	6230	CB	PRO	655	7.084	45.325	-27.158	1.00	0.00	C
ATOM	6231	CG	PRO	655	7.861	44.279	-27.976	1.00	0.00	C
ATOM	6232	C	PRO	655	7.490	46.208	-24.821	1.00	0.00	C
ATOM	6233	O	PRO	655	7.362	45.389	-23.913	1.00	0.00	O
ATOM	6234	N	GLU	656	7.109	47.495	-24.737	1.00	0.00	N
ATOM	6235	HN	GLU	656	7.300	48.099	-25.536	1.00	0.00	H
ATOM	6236	CA	GLU	656	6.454	48.077	-23.605	1.00	0.00	C
ATOM	6237	CB	GLU	656	5.219	47.268	-23.192	1.00	0.00	C
ATOM	6238	CG	GLU	656	4.152	47.280	-24.288	1.00	0.00	C
ATOM	6239	CD	GLU	656	2.969	46.460	-23.807	1.00	0.00	C
ATOM	6240	OE1	GLU	656	2.472	46.746	-22.686	1.00	0.00	O
ATOM	6241	OE2	GLU	656	2.548	45.535	-24.553	1.00	0.00	O
ATOM	6242	C	GLU	656	7.395	48.193	-22.446	1.00	0.00	C
ATOM	6243	O	GLU	656	6.998	48.597	-21.353	1.00	0.00	O
ATOM	6244	N	THR	657	8.691	47.919	-22.676	1.00	0.00	N
ATOM	6245	HN	THR	657	8.980	47.569	-23.590	1.00	0.00	H
ATOM	6246	CA	THR	657	9.668	48.114	-21.649	1.00	0.00	C
ATOM	6247	CB	THR	657	11.051	47.693	-22.051	1.00	0.00	C
ATOM	6248	OG1	THR	657	11.448	48.384	-23.226	1.00	0.00	O
ATOM	6249	HG1	THR	657	11.431	49.323	-23.086	1.00	0.00	H
ATOM	6250	CG2	THR	657	11.079	46.175	-22.278	1.00	0.00	C
ATOM	6251	C	THR	657	9.695	49.584	-21.424	1.00	0.00	C
ATOM	6252	O	THR	657	10.001	50.059	-20.333	1.00	0.00	O
ATOM	6253	N	LYS	658	9.418	50.343	-22.499	1.00	0.00	N
ATOM	6254	HN	LYS	658	9.234	49.884	-23.391	1.00	0.00	H
ATOM	6255	CA	LYS	658	9.372	51.771	-22.434	1.00	0.00	C
ATOM	6256	CB	LYS	658	9.063	52.398	-23.804	1.00	0.00	C
ATOM	6257	CG	LYS	658	8.857	53.913	-23.761	1.00	0.00	C
ATOM	6258	CD	LYS	658	8.902	54.576	-25.139	1.00	0.00	C
ATOM	6259	CE	LYS	658	8.378	56.013	-25.137	1.00	0.00	C
ATOM	6260	NZ	LYS	658	8.968	56.765	-24.007	1.00	0.00	N
ATOM	6261	HZ1	LYS	658	8.619	57.723	-24.006	1.00	0.00	H
ATOM	6262	HZ2	LYS	658	9.987	56.730	-24.015	1.00	0.00	H
ATOM	6263	HZ3	LYS	658	8.810	56.299	-23.114	1.00	0.00	H
ATOM	6264	C	LYS	658	8.274	52.174	-21.506	1.00	0.00	C
ATOM	6265	O	LYS	658	8.472	53.018	-20.637	1.00	0.00	O
ATOM	6266	N	ARG	659	7.081	51.576	-21.672	1.00	0.00	N
ATOM	6267	HN	ARG	659	6.974	50.865	-22.395	1.00	0.00	H
ATOM	6268	CA	ARG	659	5.957	51.919	-20.852	1.00	0.00	C
ATOM	6269	CB	ARG	659	4.647	51.279	-21.334	1.00	0.00	C
ATOM	6270	CG	ARG	659	3.416	51.851	-20.634	1.00	0.00	C
ATOM	6271	CD	ARG	659	2.108	51.226	-21.109	1.00	0.00	C
ATOM	6272	NE	ARG	659	0.997	52.040	-20.543	1.00	0.00	N
ATOM	6273	HE	ARG	659	1.161	52.649	-19.741	1.00	0.00	H
ATOM	6274	CZ	ARG	659	-0.242	51.963	-21.107	1.00	0.00	C
ATOM	6275	NH1	ARG	659	-0.449	51.129	-22.167	1.00	0.00	N
ATOM	6276	1HH1	ARG	659	0.321	50.570	-22.535	1.00	0.00	H
ATOM	6277	2HH1	ARG	659	-1.376	51.071	-22.589	1.00	0.00	H
ATOM	6278	NH2	ARG	659	-1.272	52.711	-20.614	1.00	0.00	N
ATOM	6279	1HH2	ARG	659	-1.117	53.334	-19.822	1.00	0.00	H
ATOM	6280	2HH2	ARG	659	-2.199	52.653	-21.036	1.00	0.00	H
ATOM	6281	C	ARG	659	6.212	51.452	-19.460	1.00	0.00	C
ATOM	6282	O	ARG	659	5.886	52.140	-18.496	1.00	0.00	O
ATOM	6283	N	GLN	660	6.799	50.250	-19.315	1.00	0.00	N
ATOM	6284	HN	GLN	660	7.066	49.705	-20.135	1.00	0.00	H
ATOM	6285	CA	GLN	660	7.045	49.744	-18.001	1.00	0.00	C
ATOM	6286	CB	GLN	660	7.671	48.341	-18.030	1.00	0.00	C
ATOM	6287	CG	GLN	660	6.763	47.300	-18.691	1.00	0.00	C

ATOM	6288	CD	GLN	660	5.528	47.136	-17.818	1.00	0.00	C
ATOM	6289	OE1	GLN	660	5.606	47.216	-16.593	1.00	0.00	O
ATOM	6290	NE2	GLN	660	4.353	46.904	-18.463	1.00	0.00	N
ATOM	6291	1HE2	GLN	660	3.525	46.794	-17.878	1.00	0.00	H
ATOM	6292	2HE2	GLN	660	4.288	46.838	-19.479	1.00	0.00	H
ATOM	6293	C	GLN	660	8.014	50.676	-17.360	1.00	0.00	C
ATOM	6294	O	GLN	660	7.841	51.087	-16.214	1.00	0.00	O
ATOM	6295	N	ASN	661	9.060	51.059	-18.111	1.00	0.00	N
ATOM	6296	HN	ASN	661	9.152	50.739	-19.075	1.00	0.00	H
ATOM	6297	CA	ASN	661	10.039	51.920	-17.536	1.00	0.00	C
ATOM	6298	CB	ASN	661	11.191	52.202	-18.516	1.00	0.00	C
ATOM	6299	CG	ASN	661	12.455	52.482	-17.714	1.00	0.00	C
ATOM	6300	OD1	ASN	661	12.460	53.290	-16.788	1.00	0.00	O
ATOM	6301	ND2	ASN	661	13.564	51.783	-18.080	1.00	0.00	N
ATOM	6302	1HD2	ASN	661	14.411	51.971	-17.543	1.00	0.00	H
ATOM	6303	2HD2	ASN	661	13.560	51.112	-18.849	1.00	0.00	H
ATOM	6304	C	ASN	661	9.358	53.202	-17.187	1.00	0.00	C
ATOM	6305	O	ASN	661	9.166	53.491	-16.011	1.00	0.00	O
ATOM	6306	N	SER	662	8.805	53.896	-18.203	1.00	0.00	N
ATOM	6307	HN	SER	662	8.797	53.467	-19.128	1.00	0.00	H
ATOM	6308	CA	SER	662	8.226	55.205	-18.059	1.00	0.00	C
ATOM	6309	CB	SER	662	7.473	55.653	-19.323	1.00	0.00	C
ATOM	6310	OG	SER	662	6.923	56.948	-19.134	1.00	0.00	O
ATOM	6311	HG	SER	662	6.458	57.225	-19.915	1.00	0.00	H
ATOM	6312	C	SER	662	7.237	55.163	-16.941	1.00	0.00	C
ATOM	6313	O	SER	662	7.149	56.099	-16.149	1.00	0.00	O
ATOM	6314	N	ASN	663	6.481	54.058	-16.833	1.00	0.00	N
ATOM	6315	HN	ASN	663	6.596	53.297	-17.502	1.00	0.00	H
ATOM	6316	CA	ASN	663	5.515	53.943	-15.784	1.00	0.00	C
ATOM	6317	CB	ASN	663	4.747	52.611	-15.888	1.00	0.00	C
ATOM	6318	CG	ASN	663	3.819	52.443	-14.694	1.00	0.00	C
ATOM	6319	OD1	ASN	663	4.268	52.250	-13.565	1.00	0.00	O
ATOM	6320	ND2	ASN	663	2.484	52.498	-14.949	1.00	0.00	N
ATOM	6321	1HD2	ASN	663	2.112	52.658	-15.885	1.00	0.00	H
ATOM	6322	2HD2	ASN	663	1.862	52.385	-14.149	1.00	0.00	H
ATOM	6323	C	ASN	663	6.203	53.974	-14.457	1.00	0.00	C
ATOM	6324	O	ASN	663	6.044	54.918	-13.686	1.00	0.00	O
ATOM	6325	N	LEU	664	7.090	52.996	-14.208	1.00	0.00	N
ATOM	6326	HN	LEU	664	7.324	52.332	-14.946	1.00	0.00	H
ATOM	6327	CA	LEU	664	7.713	52.870	-12.924	1.00	0.00	C
ATOM	6328	CB	LEU	664	8.704	51.697	-12.887	1.00	0.00	C
ATOM	6329	CG	LEU	664	8.062	50.297	-12.783	1.00	0.00	C
ATOM	6330	CD1	LEU	664	7.547	50.036	-11.365	1.00	0.00	C
ATOM	6331	CD2	LEU	664	6.960	50.075	-13.825	1.00	0.00	C
ATOM	6332	C	LEU	664	8.453	54.135	-12.639	1.00	0.00	C
ATOM	6333	O	LEU	664	8.497	54.595	-11.499	1.00	0.00	O
ATOM	6334	N	PHE	665	9.051	54.738	-13.678	1.00	0.00	N
ATOM	6335	HN	PHE	665	8.988	54.317	-14.605	1.00	0.00	H
ATOM	6336	CA	PHE	665	9.775	55.961	-13.510	1.00	0.00	C
ATOM	6337	CB	PHE	665	10.328	56.401	-14.882	1.00	0.00	C
ATOM	6338	CG	PHE	665	10.099	57.841	-15.180	1.00	0.00	C
ATOM	6339	CD1	PHE	665	10.952	58.830	-14.753	1.00	0.00	C
ATOM	6340	CD2	PHE	665	8.996	58.186	-15.927	1.00	0.00	C
ATOM	6341	CE1	PHE	665	10.691	60.143	-15.074	1.00	0.00	C
ATOM	6342	CE2	PHE	665	8.731	59.493	-16.252	1.00	0.00	C
ATOM	6343	CZ	PHE	665	9.586	60.475	-15.822	1.00	0.00	C
ATOM	6344	C	PHE	665	8.880	56.996	-12.893	1.00	0.00	C
ATOM	6345	O	PHE	665	9.131	57.441	-11.775	1.00	0.00	O
ATOM	6346	N	SER	666	7.753	57.334	-13.539	1.00	0.00	N
ATOM	6347	HN	SER	666	7.502	56.867	-14.410	1.00	0.00	H
ATOM	6348	CA	SER	666	6.902	58.357	-12.998	1.00	0.00	C
ATOM	6349	CB	SER	666	5.678	58.668	-13.877	1.00	0.00	C
ATOM	6350	OG	SER	666	4.893	59.686	-13.272	1.00	0.00	O
ATOM	6351	HG	SER	666	4.137	59.878	-13.815	1.00	0.00	H
ATOM	6352	C	SER	666	6.390	57.897	-11.671	1.00	0.00	C
ATOM	6353	O	SER	666	6.283	58.688	-10.736	1.00	0.00	O
ATOM	6354	N	LEU	667	6.101	56.588	-11.534	1.00	0.00	N
ATOM	6355	HN	LEU	667	6.258	55.945	-12.310	1.00	0.00	H
ATOM	6356	CA	LEU	667	5.571	56.101	-10.292	1.00	0.00	C
ATOM	6357	CB	LEU	667	5.310	54.585	-10.242	1.00	0.00	C
ATOM	6358	CG	LEU	667	3.930	54.183	-10.781	1.00	0.00	C
ATOM	6359	CD1	LEU	667	2.819	54.733	-9.870	1.00	0.00	C
ATOM	6360	CD2	LEU	667	3.742	54.597	-12.244	1.00	0.00	C
ATOM	6361	C	LEU	667	6.530	56.413	-9.205	1.00	0.00	C

ATOM	6362	O	LEU	667	6.128	56.831	-8.121	1.00	0.00	O
ATOM	6363	N	LEU	668	7.833	56.241	-9.471	1.00	0.00	N
ATOM	6364	HN	LEU	668	8.131	55.910	-10.389	1.00	0.00	H
ATOM	6365	CA	LEU	668	8.802	56.525	-8.458	1.00	0.00	C
ATOM	6366	CB	LEU	668	10.238	56.464	-8.998	1.00	0.00	C
ATOM	6367	CG	LEU	668	10.772	55.072	-9.350	1.00	0.00	C
ATOM	6368	CD1	LEU	668	12.117	55.191	-10.056	1.00	0.00	C
ATOM	6369	CD2	LEU	668	10.939	54.213	-8.099	1.00	0.00	C
ATOM	6370	C	LEU	668	8.628	57.957	-8.066	1.00	0.00	C
ATOM	6371	O	LEU	668	8.582	58.286	-6.882	1.00	0.00	O
ATOM	6372	N	PHE	669	8.541	58.853	-9.067	1.00	0.00	N
ATOM	6373	HN	PHE	669	8.534	58.537	-10.037	1.00	0.00	H
ATOM	6374	CA	PHE	669	8.458	60.251	-8.767	1.00	0.00	C
ATOM	6375	CB	PHE	669	8.578	61.139	-10.014	1.00	0.00	C
ATOM	6376	CG	PHE	669	8.201	62.514	-9.590	1.00	0.00	C
ATOM	6377	CD1	PHE	669	9.084	63.300	-8.889	1.00	0.00	C
ATOM	6378	CD2	PHE	669	6.948	63.006	-9.870	1.00	0.00	C
ATOM	6379	CE1	PHE	669	8.729	64.567	-8.493	1.00	0.00	C
ATOM	6380	CE2	PHE	669	6.589	64.273	-9.477	1.00	0.00	C
ATOM	6381	CZ	PHE	669	7.480	65.058	-8.788	1.00	0.00	C
ATOM	6382	C	PHE	669	7.190	60.623	-8.077	1.00	0.00	C
ATOM	6383	O	PHE	669	7.204	61.082	-6.939	1.00	0.00	O
ATOM	6384	N	LEU	670	6.049	60.333	-8.710	1.00	0.00	N
ATOM	6385	HN	LEU	670	6.086	59.768	-9.559	1.00	0.00	H
ATOM	6386	CA	LEU	670	4.778	60.788	-8.237	1.00	0.00	C
ATOM	6387	CB	LEU	670	3.664	60.194	-9.124	1.00	0.00	C
ATOM	6388	CG	LEU	670	2.222	60.613	-8.797	1.00	0.00	C
ATOM	6389	CD1	LEU	670	1.733	60.085	-7.439	1.00	0.00	C
ATOM	6390	CD2	LEU	670	2.054	62.128	-8.961	1.00	0.00	C
ATOM	6391	C	LEU	670	4.604	60.269	-6.853	1.00	0.00	C
ATOM	6392	O	LEU	670	4.250	61.014	-5.938	1.00	0.00	O
ATOM	6393	N	ALA	671	4.870	58.971	-6.656	1.00	0.00	N
ATOM	6394	HN	ALA	671	5.231	58.375	-7.401	1.00	0.00	H
ATOM	6395	CA	ALA	671	4.620	58.469	-5.344	1.00	0.00	C
ATOM	6396	CB	ALA	671	4.804	56.945	-5.253	1.00	0.00	C
ATOM	6397	C	ALA	671	5.536	59.097	-4.342	1.00	0.00	C
ATOM	6398	O	ALA	671	5.095	59.832	-3.464	1.00	0.00	O
ATOM	6399	N	LEU	672	6.856	58.928	-4.508	1.00	0.00	N
ATOM	6400	HN	LEU	672	7.223	58.471	-5.343	1.00	0.00	H
ATOM	6401	CA	LEU	672	7.739	59.403	-3.486	1.00	0.00	C
ATOM	6402	CB	LEU	672	9.200	59.084	-3.820	1.00	0.00	C
ATOM	6403	CG	LEU	672	10.209	59.564	-2.769	1.00	0.00	C
ATOM	6404	CD1	LEU	672	10.133	58.743	-1.476	1.00	0.00	C
ATOM	6405	CD2	LEU	672	11.613	59.611	-3.372	1.00	0.00	C
ATOM	6406	C	LEU	672	7.644	60.884	-3.361	1.00	0.00	C
ATOM	6407	O	LEU	672	7.235	61.385	-2.316	1.00	0.00	O
ATOM	6408	N	GLY	673	7.902	61.612	-4.467	1.00	0.00	N
ATOM	6409	HN	GLY	673	8.012	61.145	-5.367	1.00	0.00	H
ATOM	6410	CA	GLY	673	8.023	63.035	-4.386	1.00	0.00	C
ATOM	6411	C	GLY	673	6.775	63.627	-3.817	1.00	0.00	C
ATOM	6412	O	GLY	673	6.842	64.425	-2.883	1.00	0.00	O
ATOM	6413	N	ILE	674	5.599	63.254	-4.349	1.00	0.00	N
ATOM	6414	HN	ILE	674	5.552	62.544	-5.080	1.00	0.00	H
ATOM	6415	CA	ILE	674	4.412	63.888	-3.855	1.00	0.00	C
ATOM	6416	CB	ILE	674	3.193	63.581	-4.677	1.00	0.00	C
ATOM	6417	CG1	ILE	674	3.325	64.186	-6.085	1.00	0.00	C
ATOM	6418	CG2	ILE	674	1.966	64.093	-3.903	1.00	0.00	C
ATOM	6419	CD1	ILE	674	4.447	63.571	-6.918	1.00	0.00	C
ATOM	6420	C	ILE	674	4.092	63.478	-2.455	1.00	0.00	C
ATOM	6421	O	ILE	674	4.119	64.319	-1.561	1.00	0.00	O
ATOM	6422	N	ILE	675	3.941	62.158	-2.206	1.00	0.00	N
ATOM	6423	HN	ILE	675	4.221	61.486	-2.920	1.00	0.00	H
ATOM	6424	CA	ILE	675	3.397	61.670	-0.964	1.00	0.00	C
ATOM	6425	CB	ILE	675	3.455	60.174	-0.854	1.00	0.00	C
ATOM	6426	CG1	ILE	675	2.602	59.515	-1.950	1.00	0.00	C
ATOM	6427	CG2	ILE	675	3.046	59.784	0.576	1.00	0.00	C
ATOM	6428	CD1	ILE	675	2.835	58.010	-2.083	1.00	0.00	C
ATOM	6429	C	ILE	675	4.202	62.214	0.164	1.00	0.00	C
ATOM	6430	O	ILE	675	3.646	62.672	1.161	1.00	0.00	O
ATOM	6431	N	SER	676	5.537	62.195	0.024	1.00	0.00	N
ATOM	6432	HN	SER	676	5.953	61.852	-0.842	1.00	0.00	H
ATOM	6433	CA	SER	676	6.378	62.656	1.088	1.00	0.00	C
ATOM	6434	CB	SER	676	7.867	62.361	0.856	1.00	0.00	C
ATOM	6435	OG	SER	676	8.611	62.746	2.003	1.00	0.00	O

ATOM	6436	HG	SER	676	9.532	62.563	1.859	1.00	0.00	H
ATOM	6437	C	SER	676	6.233	64.128	1.279	1.00	0.00	C
ATOM	6438	O	SER	676	6.045	64.574	2.410	1.00	0.00	O
ATOM	6439	N	PHE	677	6.248	64.900	0.169	1.00	0.00	N
ATOM	6440	HN	PHE	677	6.307	64.443	-0.741	1.00	0.00	H
ATOM	6441	CA	PHE	677	6.184	66.334	0.213	1.00	0.00	C
ATOM	6442	CB	PHE	677	6.000	66.920	-1.195	1.00	0.00	C
ATOM	6443	CG	PHE	677	5.939	68.400	-1.092	1.00	0.00	C
ATOM	6444	CD1	PHE	677	7.096	69.139	-1.070	1.00	0.00	C
ATOM	6445	CD2	PHE	677	4.728	69.046	-1.010	1.00	0.00	C
ATOM	6446	CE1	PHE	677	7.044	70.509	-0.977	1.00	0.00	C
ATOM	6447	CE2	PHE	677	4.670	70.416	-0.916	1.00	0.00	C
ATOM	6448	CZ	PHE	677	5.831	71.149	-0.901	1.00	0.00	C
ATOM	6449	C	PHE	677	4.972	66.629	1.016	1.00	0.00	C
ATOM	6450	O	PHE	677	4.984	67.489	1.898	1.00	0.00	O
ATOM	6451	N	ILE	678	3.898	65.874	0.741	1.00	0.00	N
ATOM	6452	HN	ILE	678	3.921	65.200	-0.025	1.00	0.00	H
ATOM	6453	CA	ILE	678	2.724	66.028	1.536	1.00	0.00	C
ATOM	6454	CB	ILE	678	1.541	65.241	1.055	1.00	0.00	C
ATOM	6455	CG1	ILE	678	0.934	65.871	-0.211	1.00	0.00	C
ATOM	6456	CG2	ILE	678	0.550	65.153	2.228	1.00	0.00	C
ATOM	6457	CD1	ILE	678	1.830	65.819	-1.444	1.00	0.00	C
ATOM	6458	C	ILE	678	2.988	65.596	2.943	1.00	0.00	C
ATOM	6459	O	ILE	678	2.807	66.411	3.843	1.00	0.00	O
ATOM	6460	N	THR	679	3.542	64.375	3.163	1.00	0.00	N
ATOM	6461	HN	THR	679	3.901	63.838	2.374	1.00	0.00	H
ATOM	6462	CA	THR	679	3.631	63.825	4.495	1.00	0.00	C
ATOM	6463	CB	THR	679	4.335	62.493	4.590	1.00	0.00	C
ATOM	6464	OG1	THR	679	4.116	61.930	5.876	1.00	0.00	O
ATOM	6465	HG1	THR	679	4.559	61.092	5.936	1.00	0.00	H
ATOM	6466	CG2	THR	679	5.845	62.661	4.358	1.00	0.00	C
ATOM	6467	C	THR	679	4.331	64.788	5.405	1.00	0.00	C
ATOM	6468	O	THR	679	3.863	65.023	6.519	1.00	0.00	O
ATOM	6469	N	PHE	680	5.451	65.387	4.953	1.00	0.00	N
ATOM	6470	HN	PHE	680	5.796	65.176	4.017	1.00	0.00	H
ATOM	6471	CA	PHE	680	6.162	66.320	5.780	1.00	0.00	C
ATOM	6472	CB	PHE	680	7.502	66.751	5.166	1.00	0.00	C
ATOM	6473	CG	PHE	680	8.449	65.620	5.392	1.00	0.00	C
ATOM	6474	CD1	PHE	680	8.364	64.464	4.650	1.00	0.00	C
ATOM	6475	CD2	PHE	680	9.431	65.719	6.350	1.00	0.00	C
ATOM	6476	CE1	PHE	680	9.240	63.425	4.863	1.00	0.00	C
ATOM	6477	CE2	PHE	680	10.311	64.684	6.568	1.00	0.00	C
ATOM	6478	CZ	PHE	680	10.216	63.533	5.824	1.00	0.00	C
ATOM	6479	C	PHE	680	5.313	67.515	6.032	1.00	0.00	C
ATOM	6480	O	PHE	680	5.029	67.811	7.187	1.00	0.00	O
ATOM	6481	N	PHE	681	4.777	68.134	4.960	1.00	0.00	N
ATOM	6482	HN	PHE	681	4.899	67.707	4.042	1.00	0.00	H
ATOM	6483	CA	PHE	681	4.042	69.366	5.050	1.00	0.00	C
ATOM	6484	CB	PHE	681	3.361	69.707	3.711	1.00	0.00	C
ATOM	6485	CG	PHE	681	2.559	70.951	3.864	1.00	0.00	C
ATOM	6486	CD1	PHE	681	3.168	72.183	3.854	1.00	0.00	C
ATOM	6487	CD2	PHE	681	1.190	70.884	3.999	1.00	0.00	C
ATOM	6488	CE1	PHE	681	2.424	73.331	3.989	1.00	0.00	C
ATOM	6489	CE2	PHE	681	0.441	72.028	4.134	1.00	0.00	C
ATOM	6490	CZ	PHE	681	1.059	73.255	4.130	1.00	0.00	C
ATOM	6491	C	PHE	681	2.972	69.209	6.085	1.00	0.00	C
ATOM	6492	O	PHE	681	2.862	70.041	6.982	1.00	0.00	O
ATOM	6493	N	LEU	682	2.184	68.123	6.004	1.00	0.00	N
ATOM	6494	HN	LEU	682	2.352	67.453	5.254	1.00	0.00	H
ATOM	6495	CA	LEU	682	1.114	67.866	6.931	1.00	0.00	C
ATOM	6496	CB	LEU	682	0.359	66.580	6.523	1.00	0.00	C
ATOM	6497	CG	LEU	682	-0.739	66.064	7.480	1.00	0.00	C
ATOM	6498	CD1	LEU	682	-0.179	65.389	8.745	1.00	0.00	C
ATOM	6499	CD2	LEU	682	-1.756	67.168	7.795	1.00	0.00	C
ATOM	6500	C	LEU	682	1.628	67.662	8.327	1.00	0.00	C
ATOM	6501	O	LEU	682	1.247	68.377	9.250	1.00	0.00	O
ATOM	6502	N	GLN	683	2.557	66.705	8.491	1.00	0.00	N
ATOM	6503	HN	GLN	683	2.920	66.259	7.649	1.00	0.00	H
ATOM	6504	CA	GLN	683	3.085	66.255	9.754	1.00	0.00	C
ATOM	6505	CB	GLN	683	4.154	65.209	9.423	1.00	0.00	C
ATOM	6506	CG	GLN	683	4.905	64.541	10.560	1.00	0.00	C
ATOM	6507	CD	GLN	683	5.852	63.600	9.827	1.00	0.00	C
ATOM	6508	OE1	GLN	683	6.855	63.142	10.371	1.00	0.00	O
ATOM	6509	NE2	GLN	683	5.527	63.318	8.536	1.00	0.00	N

ATOM	6510	1HE2	GLN	683	6.161	62.688	8.045	1.00	0.00	H
ATOM	6511	2HE2	GLN	683	4.695	63.698	8.085	1.00	0.00	H
ATOM	6512	C	GLN	683	3.735	67.401	10.456	1.00	0.00	C
ATOM	6513	O	GLN	683	3.495	67.649	11.637	1.00	0.00	O
ATOM	6514	N	GLY	684	4.560	68.156	9.720	1.00	0.00	N
ATOM	6515	HN	GLY	684	4.685	67.929	8.734	1.00	0.00	H
ATOM	6516	CA	GLY	684	5.271	69.268	10.265	1.00	0.00	C
ATOM	6517	C	GLY	684	4.260	70.272	10.701	1.00	0.00	C
ATOM	6518	O	GLY	684	4.474	70.997	11.669	1.00	0.00	O
ATOM	6519	N	PHE	685	3.152	70.378	9.948	1.00	0.00	N
ATOM	6520	HN	PHE	685	3.032	69.769	9.139	1.00	0.00	H
ATOM	6521	CA	PHE	685	2.140	71.336	10.270	1.00	0.00	C
ATOM	6522	CB	PHE	685	1.006	71.341	9.232	1.00	0.00	C
ATOM	6523	CG	PHE	685	0.052	72.420	9.606	1.00	0.00	C
ATOM	6524	CD1	PHE	685	0.247	73.710	9.169	1.00	0.00	C
ATOM	6525	CD2	PHE	685	-1.037	72.143	10.397	1.00	0.00	C
ATOM	6526	CE1	PHE	685	-0.634	74.707	9.514	1.00	0.00	C
ATOM	6527	CE2	PHE	685	-1.922	73.136	10.746	1.00	0.00	C
ATOM	6528	CZ	PHE	685	-1.722	74.422	10.304	1.00	0.00	C
ATOM	6529	C	PHE	685	1.530	71.015	11.603	1.00	0.00	C
ATOM	6530	O	PHE	685	1.482	71.864	12.489	1.00	0.00	O
ATOM	6531	N	THR	686	1.052	69.767	11.769	1.00	0.00	N
ATOM	6532	HN	THR	686	1.199	69.092	11.019	1.00	0.00	H
ATOM	6533	CA	THR	686	0.346	69.332	12.943	1.00	0.00	C
ATOM	6534	CB	THR	686	-0.166	67.941	12.725	1.00	0.00	C
ATOM	6535	OG1	THR	686	-0.898	67.893	11.513	1.00	0.00	O
ATOM	6536	HG1	THR	686	-0.316	68.136	10.802	1.00	0.00	H
ATOM	6537	CG2	THR	686	-1.100	67.551	13.866	1.00	0.00	C
ATOM	6538	C	THR	686	1.231	69.297	14.162	1.00	0.00	C
ATOM	6539	O	THR	686	0.974	69.999	15.138	1.00	0.00	O
ATOM	6540	N	PHE	687	2.328	68.504	14.121	1.00	0.00	N
ATOM	6541	HN	PHE	687	2.578	68.028	13.254	1.00	0.00	H
ATOM	6542	CA	PHE	687	3.143	68.329	15.295	1.00	0.00	C
ATOM	6543	CB	PHE	687	4.111	67.118	15.303	1.00	0.00	C
ATOM	6544	CG	PHE	687	5.312	67.290	14.439	1.00	0.00	C
ATOM	6545	CD1	PHE	687	6.343	68.104	14.843	1.00	0.00	C
ATOM	6546	CD2	PHE	687	5.439	66.598	13.257	1.00	0.00	C
ATOM	6547	CE1	PHE	687	7.467	68.255	14.063	1.00	0.00	C
ATOM	6548	CE2	PHE	687	6.561	66.745	12.474	1.00	0.00	C
ATOM	6549	CZ	PHE	687	7.578	67.577	12.874	1.00	0.00	C
ATOM	6550	C	PHE	687	3.888	69.585	15.598	1.00	0.00	C
ATOM	6551	O	PHE	687	4.131	69.900	16.760	1.00	0.00	O
ATOM	6552	N	GLY	688	4.299	70.333	14.560	1.00	0.00	N
ATOM	6553	HN	GLY	688	4.112	70.033	13.603	1.00	0.00	H
ATOM	6554	CA	GLY	688	5.002	71.557	14.810	1.00	0.00	C
ATOM	6555	C	GLY	688	4.071	72.445	15.577	1.00	0.00	C
ATOM	6556	O	GLY	688	4.470	73.100	16.538	1.00	0.00	O
ATOM	6557	N	LYS	689	2.785	72.448	15.175	1.00	0.00	N
ATOM	6558	HN	LYS	689	2.530	71.847	14.392	1.00	0.00	H
ATOM	6559	CA	LYS	689	1.750	73.241	15.776	1.00	0.00	C
ATOM	6560	CB	LYS	689	0.386	72.988	15.092	1.00	0.00	C
ATOM	6561	CG	LYS	689	-0.859	73.547	15.793	1.00	0.00	C
ATOM	6562	CD	LYS	689	-1.254	72.752	17.039	1.00	0.00	C
ATOM	6563	CE	LYS	689	-2.605	73.127	17.643	1.00	0.00	C
ATOM	6564	NZ	LYS	689	-2.997	72.103	18.638	1.00	0.00	N
ATOM	6565	HZ1	LYS	689	-3.900	72.354	19.042	1.00	0.00	H
ATOM	6566	HZ2	LYS	689	-2.281	71.962	19.350	1.00	0.00	H
ATOM	6567	HZ3	LYS	689	-2.997	71.162	18.245	1.00	0.00	H
ATOM	6568	C	LYS	689	1.675	72.855	17.215	1.00	0.00	C
ATOM	6569	O	LYS	689	1.383	73.693	18.065	1.00	0.00	O
ATOM	6570	N	ALA	690	1.906	71.565	17.519	1.00	0.00	N
ATOM	6571	HN	ALA	690	2.094	70.901	16.768	1.00	0.00	H
ATOM	6572	CA	ALA	690	1.894	71.105	18.877	1.00	0.00	C
ATOM	6573	CB	ALA	690	2.138	69.594	19.016	1.00	0.00	C
ATOM	6574	C	ALA	690	2.997	71.801	19.603	1.00	0.00	C
ATOM	6575	O	ALA	690	2.862	72.129	20.780	1.00	0.00	O
ATOM	6576	N	GLY	691	4.144	71.997	18.927	1.00	0.00	N
ATOM	6577	HN	GLY	691	4.227	71.655	17.970	1.00	0.00	H
ATOM	6578	CA	GLY	691	5.252	72.679	19.531	1.00	0.00	C
ATOM	6579	C	GLY	691	4.860	74.103	19.775	1.00	0.00	C
ATOM	6580	O	GLY	691	5.197	74.672	20.812	1.00	0.00	O
ATOM	6581	N	GLU	692	4.152	74.729	18.810	1.00	0.00	N
ATOM	6582	HN	GLU	692	3.873	74.227	17.967	1.00	0.00	H
ATOM	6583	CA	GLU	692	3.797	76.108	18.984	1.00	0.00	C

ATOM	6584	CB	GLU	692	2.811	76.617	17.917	1.00	0.00	C
ATOM	6585	CG	GLU	692	3.322	76.612	16.484	1.00	0.00	C
ATOM	6586	CD	GLU	692	2.150	76.922	15.565	1.00	0.00	C
ATOM	6587	OE1	GLU	692	1.275	77.730	15.974	1.00	0.00	O
ATOM	6588	OE2	GLU	692	2.110	76.346	14.445	1.00	0.00	O
ATOM	6589	C	GLU	692	2.984	76.197	20.223	1.00	0.00	C
ATOM	6590	O	GLU	692	3.438	76.706	21.243	1.00	0.00	O
ATOM	6591	N	ILE	693	1.810	75.544	20.191	1.00	0.00	N
ATOM	6592	HN	ILE	693	1.597	74.949	19.390	1.00	0.00	H
ATOM	6593	CA	ILE	693	0.850	75.657	21.244	1.00	0.00	C
ATOM	6594	CB	ILE	693	-0.326	74.749	21.038	1.00	0.00	C
ATOM	6595	CG1	ILE	693	-1.263	74.861	22.242	1.00	0.00	C
ATOM	6596	CG2	ILE	693	0.165	73.321	20.746	1.00	0.00	C
ATOM	6597	CD1	ILE	693	-2.576	74.102	22.064	1.00	0.00	C
ATOM	6598	C	ILE	693	1.466	75.264	22.534	1.00	0.00	C
ATOM	6599	O	ILE	693	1.385	76.030	23.490	1.00	0.00	O
ATOM	6600	N	LEU	694	2.166	74.116	22.572	1.00	0.00	N
ATOM	6601	HN	LEU	694	2.310	73.591	21.710	1.00	0.00	H
ATOM	6602	CA	LEU	694	2.712	73.617	23.793	1.00	0.00	C
ATOM	6603	CB	LEU	694	3.568	72.356	23.583	1.00	0.00	C
ATOM	6604	CG	LEU	694	4.208	71.845	24.884	1.00	0.00	C
ATOM	6605	CD1	LEU	694	3.138	71.581	25.944	1.00	0.00	C
ATOM	6606	CD2	LEU	694	5.089	70.612	24.643	1.00	0.00	C
ATOM	6607	C	LEU	694	3.580	74.683	24.384	1.00	0.00	C
ATOM	6608	O	LEU	694	3.469	74.974	25.568	1.00	0.00	O
ATOM	6609	N	THR	695	4.438	75.330	23.581	1.00	0.00	N
ATOM	6610	HN	THR	695	4.483	75.085	22.592	1.00	0.00	H
ATOM	6611	CA	THR	695	5.294	76.363	24.094	1.00	0.00	C
ATOM	6612	CB	THR	695	6.271	76.847	23.063	1.00	0.00	C
ATOM	6613	OG1	THR	695	7.113	75.781	22.648	1.00	0.00	O
ATOM	6614	HG1	THR	695	7.732	76.087	21.995	1.00	0.00	H
ATOM	6615	CG2	THR	695	7.105	77.995	23.654	1.00	0.00	C
ATOM	6616	C	THR	695	4.507	77.564	24.554	1.00	0.00	C
ATOM	6617	O	THR	695	4.801	78.121	25.610	1.00	0.00	O
ATOM	6618	N	LYS	696	3.521	78.029	23.756	1.00	0.00	N
ATOM	6619	HN	LYS	696	3.306	77.522	22.898	1.00	0.00	H
ATOM	6620	CA	LYS	696	2.761	79.214	24.070	1.00	0.00	C
ATOM	6621	CB	LYS	696	1.814	79.632	22.933	1.00	0.00	C
ATOM	6622	CG	LYS	696	2.520	80.011	21.631	1.00	0.00	C
ATOM	6623	CD	LYS	696	1.555	80.128	20.448	1.00	0.00	C
ATOM	6624	CE	LYS	696	0.800	78.830	20.146	1.00	0.00	C
ATOM	6625	NZ	LYS	696	-0.243	79.074	19.125	1.00	0.00	N
ATOM	6626	HZ1	LYS	696	-0.746	78.210	18.924	1.00	0.00	H
ATOM	6627	HZ2	LYS	696	0.141	79.497	18.280	1.00	0.00	H
ATOM	6628	HZ3	LYS	696	-0.874	79.828	19.397	1.00	0.00	H
ATOM	6629	C	LYS	696	1.891	79.014	25.261	1.00	0.00	C
ATOM	6630	O	LYS	696	2.000	79.733	26.251	1.00	0.00	O
ATOM	6631	N	ARG	697	1.049	77.972	25.212	1.00	0.00	N
ATOM	6632	HN	ARG	697	1.073	77.363	24.394	1.00	0.00	H
ATOM	6633	CA	ARG	697	0.121	77.677	26.253	1.00	0.00	C
ATOM	6634	CB	ARG	697	-0.629	76.355	26.005	1.00	0.00	C
ATOM	6635	CG	ARG	697	0.317	75.155	25.887	1.00	0.00	C
ATOM	6636	CD	ARG	697	-0.337	73.869	25.376	1.00	0.00	C
ATOM	6637	NE	ARG	697	-1.201	73.325	26.460	1.00	0.00	N
ATOM	6638	HE	ARG	697	-1.197	73.755	27.385	1.00	0.00	H
ATOM	6639	CZ	ARG	697	-1.998	72.246	26.206	1.00	0.00	C
ATOM	6640	NH1	ARG	697	-2.007	71.685	24.962	1.00	0.00	N
ATOM	6641	1HH1	ARG	697	-1.422	72.076	24.223	1.00	0.00	H
ATOM	6642	2HH1	ARG	697	-2.602	70.879	24.772	1.00	0.00	H
ATOM	6643	NH2	ARG	697	-2.780	71.723	27.194	1.00	0.00	N
ATOM	6644	1HH2	ARG	697	-2.773	72.142	28.124	1.00	0.00	H
ATOM	6645	2HH2	ARG	697	-3.375	70.917	27.004	1.00	0.00	H
ATOM	6646	C	ARG	697	0.971	77.498	27.463	1.00	0.00	C
ATOM	6647	O	ARG	697	0.516	77.746	28.575	1.00	0.00	O
ATOM	6648	N	LEU	698	2.204	76.979	27.272	1.00	0.00	N
ATOM	6649	HN	LEU	698	2.479	76.707	26.328	1.00	0.00	H
ATOM	6650	CA	LEU	698	3.145	76.794	28.343	1.00	0.00	C
ATOM	6651	CB	LEU	698	4.320	75.847	28.021	1.00	0.00	C
ATOM	6652	CG	LEU	698	4.093	74.368	28.420	1.00	0.00	C
ATOM	6653	CD1	LEU	698	4.221	74.212	29.943	1.00	0.00	C
ATOM	6654	CD2	LEU	698	2.759	73.788	27.920	1.00	0.00	C
ATOM	6655	C	LEU	698	3.705	78.062	28.922	1.00	0.00	C
ATOM	6656	O	LEU	698	3.609	78.237	30.133	1.00	0.00	O
ATOM	6657	N	ARG	699	4.254	79.004	28.115	1.00	0.00	N

ATOM	6658	HN	ARG	699	4.260	78.877	27.103	1.00	0.00	H
ATOM	6659	CA	ARG	699	4.829	80.187	28.706	1.00	0.00	C
ATOM	6660	CB	ARG	699	5.398	81.225	27.725	1.00	0.00	C
ATOM	6661	CG	ARG	699	6.762	80.890	27.118	1.00	0.00	C
ATOM	6662	CD	ARG	699	7.456	82.153	26.604	1.00	0.00	C
ATOM	6663	NE	ARG	699	8.574	81.771	25.700	1.00	0.00	N
ATOM	6664	HE	ARG	699	8.693	80.803	25.400	1.00	0.00	H
ATOM	6665	CZ	ARG	699	9.438	82.741	25.279	1.00	0.00	C
ATOM	6666	NH1	ARG	699	9.362	83.994	25.816	1.00	0.00	N
ATOM	6667	1HH1	ARG	699	10.007	84.719	25.502	1.00	0.00	H
ATOM	6668	2HH1	ARG	699	8.669	84.199	26.536	1.00	0.00	H
ATOM	6669	NH2	ARG	699	10.365	82.467	24.316	1.00	0.00	N
ATOM	6670	1HH2	ARG	699	11.010	83.192	24.002	1.00	0.00	H
ATOM	6671	2HH2	ARG	699	10.422	81.531	23.915	1.00	0.00	H
ATOM	6672	C	ARG	699	3.732	80.868	29.442	1.00	0.00	C
ATOM	6673	O	ARG	699	3.943	81.429	30.514	1.00	0.00	O
ATOM	6674	N	TYR	700	2.523	80.828	28.861	1.00	0.00	N
ATOM	6675	HN	TYR	700	2.426	80.367	27.956	1.00	0.00	H
ATOM	6676	CA	TYR	700	1.368	81.408	29.466	1.00	0.00	C
ATOM	6677	CB	TYR	700	0.146	81.310	28.536	1.00	0.00	C
ATOM	6678	CG	TYR	700	-1.065	81.805	29.245	1.00	0.00	C
ATOM	6679	CD1	TYR	700	-1.317	83.151	29.353	1.00	0.00	C
ATOM	6680	CD2	TYR	700	-1.947	80.920	29.817	1.00	0.00	C
ATOM	6681	CE1	TYR	700	-2.438	83.606	30.008	1.00	0.00	C
ATOM	6682	CE2	TYR	700	-3.068	81.367	30.473	1.00	0.00	C
ATOM	6683	CZ	TYR	700	-3.318	82.712	30.569	1.00	0.00	C
ATOM	6684	OH	TYR	700	-4.471	83.168	31.243	1.00	0.00	O
ATOM	6685	HH	TYR	700	-4.644	84.100	31.310	1.00	0.00	H
ATOM	6686	C	TYR	700	1.074	80.691	30.739	1.00	0.00	C
ATOM	6687	O	TYR	700	0.999	81.323	31.788	1.00	0.00	O
ATOM	6688	N	MET	701	0.995	79.347	30.710	1.00	0.00	N
ATOM	6689	HN	MET	701	1.201	78.836	29.852	1.00	0.00	H
ATOM	6690	CA	MET	701	0.618	78.646	31.899	1.00	0.00	C
ATOM	6691	CB	MET	701	0.537	77.117	31.758	1.00	0.00	C
ATOM	6692	CG	MET	701	-0.704	76.633	31.009	1.00	0.00	C
ATOM	6693	SD	MET	701	-1.066	74.866	31.240	1.00	0.00	S
ATOM	6694	CE	MET	701	-1.518	75.032	32.993	1.00	0.00	C
ATOM	6695	C	MET	701	1.613	78.941	32.974	1.00	0.00	C
ATOM	6696	O	MET	701	1.226	79.246	34.097	1.00	0.00	O
ATOM	6697	N	VAL	702	2.917	78.901	32.651	1.00	0.00	N
ATOM	6698	HN	VAL	702	3.190	78.702	31.689	1.00	0.00	H
ATOM	6699	CA	VAL	702	3.930	79.134	33.638	1.00	0.00	C
ATOM	6700	CB	VAL	702	5.320	79.007	33.088	1.00	0.00	C
ATOM	6701	CG1	VAL	702	6.318	79.399	34.189	1.00	0.00	C
ATOM	6702	CG2	VAL	702	5.515	77.579	32.556	1.00	0.00	C
ATOM	6703	C	VAL	702	3.821	80.529	34.169	1.00	0.00	C
ATOM	6704	O	VAL	702	3.813	80.732	35.381	1.00	0.00	O
ATOM	6705	N	PHE	703	3.703	81.531	33.276	1.00	0.00	N
ATOM	6706	HN	PHE	703	3.592	81.318	32.285	1.00	0.00	H
ATOM	6707	CA	PHE	703	3.733	82.899	33.716	1.00	0.00	C
ATOM	6708	CB	PHE	703	3.535	83.912	32.576	1.00	0.00	C
ATOM	6709	CG	PHE	703	4.048	85.231	33.051	1.00	0.00	C
ATOM	6710	CD1	PHE	703	3.474	85.886	34.117	1.00	0.00	C
ATOM	6711	CD2	PHE	703	5.151	85.794	32.453	1.00	0.00	C
ATOM	6712	CE1	PHE	703	3.967	87.094	34.552	1.00	0.00	C
ATOM	6713	CE2	PHE	703	5.648	87.002	32.881	1.00	0.00	C
ATOM	6714	CZ	PHE	703	5.054	87.658	33.930	1.00	0.00	C
ATOM	6715	C	PHE	703	2.591	83.130	34.643	1.00	0.00	C
ATOM	6716	O	PHE	703	2.761	83.647	35.745	1.00	0.00	O
ATOM	6717	N	ARG	704	1.391	82.721	34.214	1.00	0.00	N
ATOM	6718	HN	ARG	704	1.313	82.259	33.308	1.00	0.00	H
ATOM	6719	CA	ARG	704	0.222	82.919	35.000	1.00	0.00	C
ATOM	6720	CB	ARG	704	-1.045	82.373	34.331	1.00	0.00	C
ATOM	6721	CG	ARG	704	-1.512	83.268	33.189	1.00	0.00	C
ATOM	6722	CD	ARG	704	-2.326	84.464	33.682	1.00	0.00	C
ATOM	6723	NE	ARG	704	-3.610	83.921	34.211	1.00	0.00	N
ATOM	6724	HE	ARG	704	-4.122	83.221	33.675	1.00	0.00	H
ATOM	6725	CZ	ARG	704	-4.105	84.353	35.407	1.00	0.00	C
ATOM	6726	NH1	ARG	704	-3.413	85.270	36.145	1.00	0.00	N
ATOM	6727	1HH1	ARG	704	-3.783	85.593	37.039	1.00	0.00	H
ATOM	6728	2HH1	ARG	704	-2.527	85.637	35.798	1.00	0.00	H
ATOM	6729	NH2	ARG	704	-5.291	83.862	35.871	1.00	0.00	N
ATOM	6730	1HH2	ARG	704	-5.661	84.185	36.765	1.00	0.00	H
ATOM	6731	2HH2	ARG	704	-5.808	83.177	35.320	1.00	0.00	H

ATOM	6732	C	ARG	704	0.430	82.181	36.265	1.00	0.00	C
ATOM	6733	O	ARG	704	-0.037	82.628	37.306	1.00	0.00	O
ATOM	6734	N	SER	705	1.141	81.038	36.214	1.00	0.00	N
ATOM	6735	HN	SER	705	1.529	80.716	35.327	1.00	0.00	H
ATOM	6736	CA	SER	705	1.351	80.276	37.409	1.00	0.00	C
ATOM	6737	CB	SER	705	2.263	79.053	37.206	1.00	0.00	C
ATOM	6738	OG	SER	705	1.624	78.098	36.372	1.00	0.00	O
ATOM	6739	HG	SER	705	2.187	77.343	36.247	1.00	0.00	H
ATOM	6740	C	SER	705	2.016	81.184	38.388	1.00	0.00	C
ATOM	6741	O	SER	705	1.696	81.162	39.573	1.00	0.00	O
ATOM	6742	N	MET	706	2.989	81.980	37.911	1.00	0.00	N
ATOM	6743	HN	MET	706	3.241	81.909	36.925	1.00	0.00	H
ATOM	6744	CA	MET	706	3.686	82.924	38.732	1.00	0.00	C
ATOM	6745	CB	MET	706	4.869	83.534	37.966	1.00	0.00	C
ATOM	6746	CG	MET	706	5.911	82.495	37.548	1.00	0.00	C
ATOM	6747	SD	MET	706	6.996	83.024	36.189	1.00	0.00	S
ATOM	6748	CE	MET	706	7.824	84.339	37.127	1.00	0.00	C
ATOM	6749	C	MET	706	2.815	84.073	39.170	1.00	0.00	C
ATOM	6750	O	MET	706	2.723	84.371	40.359	1.00	0.00	O
ATOM	6751	N	LEU	707	2.114	84.734	38.224	1.00	0.00	N
ATOM	6752	HN	LEU	707	2.132	84.410	37.257	1.00	0.00	H
ATOM	6753	CA	LEU	707	1.342	85.894	38.577	1.00	0.00	C
ATOM	6754	CB	LEU	707	0.601	86.523	37.389	1.00	0.00	C
ATOM	6755	CG	LEU	707	1.518	87.276	36.417	1.00	0.00	C
ATOM	6756	CD1	LEU	707	0.706	87.874	35.261	1.00	0.00	C
ATOM	6757	CD2	LEU	707	2.361	88.328	37.158	1.00	0.00	C
ATOM	6758	C	LEU	707	0.301	85.479	39.551	1.00	0.00	C
ATOM	6759	O	LEU	707	0.072	86.146	40.561	1.00	0.00	O
ATOM	6760	N	ARG	708	-0.362	84.354	39.244	1.00	0.00	N
ATOM	6761	HN	ARG	708	-0.121	83.864	38.383	1.00	0.00	H
ATOM	6762	CA	ARG	708	-1.393	83.814	40.074	1.00	0.00	C
ATOM	6763	CB	ARG	708	-2.076	82.589	39.448	1.00	0.00	C
ATOM	6764	CG	ARG	708	-2.788	82.894	38.127	1.00	0.00	C
ATOM	6765	CD	ARG	708	-3.332	81.645	37.431	1.00	0.00	C
ATOM	6766	NE	ARG	708	-2.180	80.718	37.239	1.00	0.00	N
ATOM	6767	HE	ARG	708	-1.356	80.808	37.833	1.00	0.00	H
ATOM	6768	CZ	ARG	708	-2.217	79.750	36.277	1.00	0.00	C
ATOM	6769	NH1	ARG	708	-3.285	79.663	35.434	1.00	0.00	N
ATOM	6770	1HH1	ARG	708	-4.058	80.322	35.528	1.00	0.00	H
ATOM	6771	2HH1	ARG	708	-3.313	78.940	34.715	1.00	0.00	H
ATOM	6772	NH2	ARG	708	-1.183	78.868	36.151	1.00	0.00	N
ATOM	6773	1HH2	ARG	708	-0.384	78.933	36.782	1.00	0.00	H
ATOM	6774	2HH2	ARG	708	-1.211	78.145	35.432	1.00	0.00	H
ATOM	6775	C	ARG	708	-0.749	83.383	41.333	1.00	0.00	C
ATOM	6776	O	ARG	708	-1.257	83.630	42.426	1.00	0.00	O
ATOM	6777	N	GLN	709	0.431	82.749	41.218	1.00	0.00	N
ATOM	6778	HN	GLN	709	0.861	82.553	40.314	1.00	0.00	H
ATOM	6779	CA	GLN	709	1.033	82.374	42.442	1.00	0.00	C
ATOM	6780	CB	GLN	709	2.166	81.337	42.395	1.00	0.00	C
ATOM	6781	CG	GLN	709	3.459	81.705	41.691	1.00	0.00	C
ATOM	6782	CD	GLN	709	4.415	80.642	42.197	1.00	0.00	C
ATOM	6783	OE1	GLN	709	5.081	79.953	41.427	1.00	0.00	O
ATOM	6784	NE2	GLN	709	4.466	80.499	43.549	1.00	0.00	N
ATOM	6785	1HE2	GLN	709	3.913	81.071	44.188	1.00	0.00	H
ATOM	6786	2HE2	GLN	709	5.109	79.784	43.889	1.00	0.00	H
ATOM	6787	C	GLN	709	1.461	83.652	43.062	1.00	0.00	C
ATOM	6788	O	GLN	709	1.316	84.731	42.491	1.00	0.00	O
ATOM	6789	N	ASP	710	1.896	83.571	44.312	1.00	0.00	N
ATOM	6790	HN	ASP	710	1.966	82.659	44.764	1.00	0.00	H
ATOM	6791	CA	ASP	710	2.264	84.738	45.026	1.00	0.00	C
ATOM	6792	CB	ASP	710	1.210	85.863	44.980	1.00	0.00	C
ATOM	6793	CG	ASP	710	-0.137	85.333	45.456	1.00	0.00	C
ATOM	6794	OD1	ASP	710	-0.257	84.109	45.728	1.00	0.00	O
ATOM	6795	OD2	ASP	710	-1.079	86.165	45.539	1.00	0.00	O
ATOM	6796	C	ASP	710	2.398	84.216	46.393	1.00	0.00	C
ATOM	6797	O	ASP	710	2.774	83.055	46.553	1.00	0.00	O
ATOM	6798	N	VAL	711	2.097	85.056	47.395	1.00	0.00	N
ATOM	6799	HN	VAL	711	1.794	86.009	47.193	1.00	0.00	H
ATOM	6800	CA	VAL	711	2.203	84.608	48.741	1.00	0.00	C
ATOM	6801	CB	VAL	711	1.597	83.249	48.998	1.00	0.00	C
ATOM	6802	CG1	VAL	711	1.643	82.887	50.495	1.00	0.00	C
ATOM	6803	CG2	VAL	711	0.183	83.272	48.404	1.00	0.00	C
ATOM	6804	C	VAL	711	3.677	84.648	48.962	1.00	0.00	C
ATOM	6805	O	VAL	711	4.363	85.385	48.259	1.00	0.00	O

ATOM	6806	N	SER	712	4.208	83.834	49.887	1.00	0.00	N
ATOM	6807	HN	SER	712	3.598	83.155	50.342	1.00	0.00	H
ATOM	6808	CA	SER	712	5.587	83.870	50.267	1.00	0.00	C
ATOM	6809	CB	SER	712	5.925	82.894	51.397	1.00	0.00	C
ATOM	6810	OG	SER	712	5.310	83.346	52.592	1.00	0.00	O
ATOM	6811	HG	SER	712	5.520	82.740	53.293	1.00	0.00	H
ATOM	6812	C	SER	712	6.492	83.562	49.117	1.00	0.00	C
ATOM	6813	O	SER	712	7.700	83.456	49.319	1.00	0.00	O
ATOM	6814	N	TRP	713	5.955	83.365	47.898	1.00	0.00	N
ATOM	6815	HN	TRP	713	4.943	83.373	47.772	1.00	0.00	H
ATOM	6816	CA	TRP	713	6.826	83.144	46.779	1.00	0.00	C
ATOM	6817	CB	TRP	713	6.033	83.108	45.460	1.00	0.00	C
ATOM	6818	CG	TRP	713	6.825	82.971	44.179	1.00	0.00	C
ATOM	6819	CD2	TRP	713	7.360	81.731	43.695	1.00	0.00	C
ATOM	6820	CD1	TRP	713	7.156	83.920	43.255	1.00	0.00	C
ATOM	6821	NE1	TRP	713	7.845	83.344	42.214	1.00	0.00	N
ATOM	6822	HE1	TRP	713	8.196	83.831	41.389	1.00	0.00	H
ATOM	6823	CE2	TRP	713	7.981	81.997	42.474	1.00	0.00	C
ATOM	6824	CE3	TRP	713	7.330	80.474	44.223	1.00	0.00	C
ATOM	6825	CZ2	TRP	713	8.583	81.000	41.758	1.00	0.00	C
ATOM	6826	CZ3	TRP	713	7.940	79.473	43.502	1.00	0.00	C
ATOM	6827	CH2	TRP	713	8.553	79.730	42.293	1.00	0.00	C
ATOM	6828	C	TRP	713	7.767	84.303	46.724	1.00	0.00	C
ATOM	6829	O	TRP	713	8.927	84.154	47.083	1.00	0.00	O
ATOM	6830	N	PHE	714	7.297	85.491	46.305	1.00	0.00	N
ATOM	6831	HN	PHE	714	6.341	85.540	45.954	1.00	0.00	H
ATOM	6832	CA	PHE	714	8.080	86.695	46.329	1.00	0.00	C
ATOM	6833	CB	PHE	714	7.548	87.811	45.422	1.00	0.00	C
ATOM	6834	CG	PHE	714	7.622	87.329	44.021	1.00	0.00	C
ATOM	6835	CD1	PHE	714	8.841	87.082	43.436	1.00	0.00	C
ATOM	6836	CD2	PHE	714	6.475	87.157	43.283	1.00	0.00	C
ATOM	6837	CE1	PHE	714	8.913	86.644	42.136	1.00	0.00	C
ATOM	6838	CE2	PHE	714	6.540	86.721	41.982	1.00	0.00	C
ATOM	6839	CZ	PHE	714	7.762	86.462	41.407	1.00	0.00	C
ATOM	6840	C	PHE	714	7.990	87.236	47.720	1.00	0.00	C
ATOM	6841	O	PHE	714	8.831	88.015	48.159	1.00	0.00	O
ATOM	6842	N	ASP	715	6.890	86.892	48.417	1.00	0.00	N
ATOM	6843	HN	ASP	715	6.225	86.245	47.994	1.00	0.00	H
ATOM	6844	CA	ASP	715	6.617	87.399	49.729	1.00	0.00	C
ATOM	6845	CB	ASP	715	5.255	86.969	50.303	1.00	0.00	C
ATOM	6846	CG	ASP	715	4.178	87.769	49.577	1.00	0.00	C
ATOM	6847	OD1	ASP	715	4.347	87.993	48.349	1.00	0.00	O
ATOM	6848	OD2	ASP	715	3.181	88.169	50.235	1.00	0.00	O
ATOM	6849	C	ASP	715	7.697	86.972	50.684	1.00	0.00	C
ATOM	6850	O	ASP	715	7.923	87.644	51.691	1.00	0.00	O
ATOM	6851	N	ASP	716	8.318	85.797	50.440	1.00	0.00	N
ATOM	6852	HN	ASP	716	7.961	85.213	49.684	1.00	0.00	H
ATOM	6853	CA	ASP	716	9.457	85.319	51.186	1.00	0.00	C
ATOM	6854	CB	ASP	716	9.061	84.451	52.393	1.00	0.00	C
ATOM	6855	CG	ASP	716	10.243	84.380	53.352	1.00	0.00	C
ATOM	6856	OD1	ASP	716	11.043	85.353	53.376	1.00	0.00	O
ATOM	6857	OD2	ASP	716	10.362	83.356	54.076	1.00	0.00	O
ATOM	6858	C	ASP	716	10.175	84.429	50.208	1.00	0.00	C
ATOM	6859	O	ASP	716	10.055	83.205	50.257	1.00	0.00	O
ATOM	6860	N	PRO	717	10.917	85.056	49.329	1.00	0.00	N
ATOM	6861	CA	PRO	717	11.455	84.454	48.137	1.00	0.00	C
ATOM	6862	CD	PRO	717	10.914	86.502	49.250	1.00	0.00	C
ATOM	6863	CB	PRO	717	11.410	85.555	47.079	1.00	0.00	C
ATOM	6864	CG	PRO	717	11.589	86.836	47.906	1.00	0.00	C
ATOM	6865	C	PRO	717	12.803	83.833	48.096	1.00	0.00	C
ATOM	6866	O	PRO	717	13.569	83.900	49.058	1.00	0.00	O
ATOM	6867	N	LYS	718	13.064	83.216	46.923	1.00	0.00	N
ATOM	6868	HN	LYS	718	12.287	83.109	46.271	1.00	0.00	H
ATOM	6869	CA	LYS	718	14.328	82.702	46.515	1.00	0.00	C
ATOM	6870	CB	LYS	718	14.690	81.362	47.182	1.00	0.00	C
ATOM	6871	CG	LYS	718	13.574	80.313	47.184	1.00	0.00	C
ATOM	6872	CD	LYS	718	12.347	80.710	48.011	1.00	0.00	C
ATOM	6873	CE	LYS	718	12.676	81.200	49.425	1.00	0.00	C
ATOM	6874	NZ	LYS	718	13.181	80.091	50.257	1.00	0.00	N
ATOM	6875	HZ1	LYS	718	13.400	80.417	51.198	1.00	0.00	H
ATOM	6876	HZ2	LYS	718	13.978	79.626	49.823	1.00	0.00	H
ATOM	6877	HZ3	LYS	718	12.533	79.303	50.271	1.00	0.00	H
ATOM	6878	C	LYS	718	14.239	82.506	45.029	1.00	0.00	C
ATOM	6879	O	LYS	718	14.847	81.591	44.475	1.00	0.00	O

ATOM	6880	N	ASN	719	13.472	83.370	44.328	1.00	0.00	N
ATOM	6881	HN	ASN	719	12.984	84.132	44.798	1.00	0.00	H
ATOM	6882	CA	ASN	719	13.359	83.194	42.911	1.00	0.00	C
ATOM	6883	CB	ASN	719	12.026	82.529	42.542	1.00	0.00	C
ATOM	6884	CG	ASN	719	11.954	81.216	43.305	1.00	0.00	C
ATOM	6885	OD1	ASN	719	12.757	80.311	43.087	1.00	0.00	O
ATOM	6886	ND2	ASN	719	10.973	81.116	44.241	1.00	0.00	N
ATOM	6887	1HD2	ASN	719	10.307	81.867	44.422	1.00	0.00	H
ATOM	6888	2HD2	ASN	719	10.925	80.235	44.753	1.00	0.00	H
ATOM	6889	C	ASN	719	13.339	84.550	42.293	1.00	0.00	C
ATOM	6890	O	ASN	719	12.272	85.119	42.073	1.00	0.00	O
ATOM	6891	N	THR	720	14.514	85.071	41.909	1.00	0.00	N
ATOM	6892	HN	THR	720	15.369	84.519	41.971	1.00	0.00	H
ATOM	6893	CA	THR	720	14.551	86.411	41.412	1.00	0.00	C
ATOM	6894	CB	THR	720	15.909	87.032	41.319	1.00	0.00	C
ATOM	6895	OG1	THR	720	16.763	86.248	40.500	1.00	0.00	O
ATOM	6896	HG1	THR	720	17.625	86.642	40.441	1.00	0.00	H
ATOM	6897	CG2	THR	720	16.472	87.198	42.733	1.00	0.00	C
ATOM	6898	C	THR	720	13.967	86.480	40.056	1.00	0.00	C
ATOM	6899	O	THR	720	13.588	85.480	39.445	1.00	0.00	O
ATOM	6900	N	THR	721	13.883	87.730	39.574	1.00	0.00	N
ATOM	6901	HN	THR	721	14.242	88.501	40.136	1.00	0.00	H
ATOM	6902	CA	THR	721	13.309	88.013	38.304	1.00	0.00	C
ATOM	6903	CB	THR	721	13.351	89.471	37.946	1.00	0.00	C
ATOM	6904	OG1	THR	721	12.662	90.237	38.922	1.00	0.00	O
ATOM	6905	HG1	THR	721	12.689	91.159	38.696	1.00	0.00	H
ATOM	6906	CG2	THR	721	12.696	89.660	36.566	1.00	0.00	C
ATOM	6907	C	THR	721	14.089	87.302	37.250	1.00	0.00	C
ATOM	6908	O	THR	721	13.513	86.658	36.376	1.00	0.00	O
ATOM	6909	N	GLY	722	15.429	87.371	37.321	1.00	0.00	N
ATOM	6910	HN	GLY	722	15.879	87.834	38.110	1.00	0.00	H
ATOM	6911	CA	GLY	722	16.220	86.788	36.277	1.00	0.00	C
ATOM	6912	C	GLY	722	15.931	85.333	36.229	1.00	0.00	C
ATOM	6913	O	GLY	722	15.758	84.763	35.152	1.00	0.00	O
ATOM	6914	N	ALA	723	15.826	84.702	37.408	1.00	0.00	N
ATOM	6915	HN	ALA	723	15.895	85.228	38.279	1.00	0.00	H
ATOM	6916	CA	ALA	723	15.617	83.292	37.436	1.00	0.00	C
ATOM	6917	CB	ALA	723	15.463	82.745	38.865	1.00	0.00	C
ATOM	6918	C	ALA	723	14.350	83.021	36.703	1.00	0.00	C
ATOM	6919	O	ALA	723	14.242	82.039	35.974	1.00	0.00	O
ATOM	6920	N	LEU	724	13.356	83.898	36.890	1.00	0.00	N
ATOM	6921	HN	LEU	724	13.514	84.703	37.497	1.00	0.00	H
ATOM	6922	CA	LEU	724	12.077	83.741	36.264	1.00	0.00	C
ATOM	6923	CB	LEU	724	11.053	84.725	36.843	1.00	0.00	C
ATOM	6924	CG	LEU	724	10.872	84.547	38.362	1.00	0.00	C
ATOM	6925	CD1	LEU	724	9.837	85.532	38.929	1.00	0.00	C
ATOM	6926	CD2	LEU	724	10.577	83.080	38.716	1.00	0.00	C
ATOM	6927	C	LEU	724	12.113	83.944	34.775	1.00	0.00	C
ATOM	6928	O	LEU	724	11.598	83.127	34.010	1.00	0.00	O
ATOM	6929	N	THR	725	12.753	85.034	34.320	1.00	0.00	N
ATOM	6930	HN	THR	725	13.248	85.637	34.976	1.00	0.00	H
ATOM	6931	CA	THR	725	12.749	85.360	32.925	1.00	0.00	C
ATOM	6932	CB	THR	725	13.635	86.531	32.662	1.00	0.00	C
ATOM	6933	OG1	THR	725	13.185	87.657	33.399	1.00	0.00	O
ATOM	6934	HG1	THR	725	13.179	87.478	34.332	1.00	0.00	H
ATOM	6935	CG2	THR	725	13.645	86.820	31.160	1.00	0.00	C
ATOM	6936	C	THR	725	13.349	84.211	32.199	1.00	0.00	C
ATOM	6937	O	THR	725	12.815	83.722	31.200	1.00	0.00	O
ATOM	6938	N	THR	726	14.475	83.722	32.740	1.00	0.00	N
ATOM	6939	HN	THR	726	14.821	84.082	33.629	1.00	0.00	H
ATOM	6940	CA	THR	726	15.181	82.690	32.052	1.00	0.00	C
ATOM	6941	CB	THR	726	16.403	82.208	32.774	1.00	0.00	C
ATOM	6942	OG1	THR	726	16.062	81.682	34.048	1.00	0.00	O
ATOM	6943	HG1	THR	726	16.836	81.377	34.506	1.00	0.00	H
ATOM	6944	CG2	THR	726	17.378	83.380	32.915	1.00	0.00	C
ATOM	6945	C	THR	726	14.292	81.518	31.895	1.00	0.00	C
ATOM	6946	O	THR	726	14.135	80.988	30.794	1.00	0.00	O
ATOM	6947	N	ARG	727	13.625	81.139	32.993	1.00	0.00	N
ATOM	6948	HN	ARG	727	13.682	81.691	33.849	1.00	0.00	H
ATOM	6949	CA	ARG	727	12.833	79.952	32.949	1.00	0.00	C
ATOM	6950	CB	ARG	727	12.087	79.677	34.268	1.00	0.00	C
ATOM	6951	CG	ARG	727	12.993	79.124	35.369	1.00	0.00	C
ATOM	6952	CD	ARG	727	12.998	77.595	35.431	1.00	0.00	C
ATOM	6953	NE	ARG	727	14.073	77.180	36.377	1.00	0.00	N

ATOM	6954	HE	ARG	727	13.879	77.115	37.376	1.00	0.00	H
ATOM	6955	CZ	ARG	727	15.318	76.888	35.899	1.00	0.00	C
ATOM	6956	NH1	ARG	727	15.575	76.981	34.562	1.00	0.00	N
ATOM	6957	1HH1	ARG	727	14.836	77.275	33.923	1.00	0.00	H
ATOM	6958	2HH1	ARG	727	16.505	76.763	34.205	1.00	0.00	H
ATOM	6959	NH2	ARG	727	16.307	76.495	36.755	1.00	0.00	N
ATOM	6960	1HH2	ARG	727	16.115	76.425	37.754	1.00	0.00	H
ATOM	6961	2HH2	ARG	727	17.237	76.277	36.398	1.00	0.00	H
ATOM	6962	C	ARG	727	11.811	80.050	31.865	1.00	0.00	C
ATOM	6963	O	ARG	727	11.635	79.103	31.097	1.00	0.00	O
ATOM	6964	N	LEU	728	11.149	81.212	31.725	1.00	0.00	N
ATOM	6965	HN	LEU	728	11.399	82.036	32.272	1.00	0.00	H
ATOM	6966	CA	LEU	728	10.079	81.243	30.776	1.00	0.00	C
ATOM	6967	CB	LEU	728	9.370	82.600	30.710	1.00	0.00	C
ATOM	6968	CG	LEU	728	8.679	82.978	32.029	1.00	0.00	C
ATOM	6969	CD1	LEU	728	7.739	84.176	31.832	1.00	0.00	C
ATOM	6970	CD2	LEU	728	7.992	81.764	32.671	1.00	0.00	C
ATOM	6971	C	LEU	728	10.538	80.916	29.383	1.00	0.00	C
ATOM	6972	O	LEU	728	10.067	79.947	28.788	1.00	0.00	O
ATOM	6973	N	ALA	729	11.510	81.660	28.836	1.00	0.00	N
ATOM	6974	HN	ALA	729	12.015	82.357	29.384	1.00	0.00	H
ATOM	6975	CA	ALA	729	11.814	81.439	27.447	1.00	0.00	C
ATOM	6976	CB	ALA	729	12.777	82.505	26.899	1.00	0.00	C
ATOM	6977	C	ALA	729	12.417	80.099	27.137	1.00	0.00	C
ATOM	6978	O	ALA	729	11.869	79.334	26.340	1.00	0.00	O
ATOM	6979	N	ASN	730	13.523	79.734	27.813	1.00	0.00	N
ATOM	6980	HN	ASN	730	13.860	80.267	28.615	1.00	0.00	H
ATOM	6981	CA	ASN	730	14.206	78.555	27.348	1.00	0.00	C
ATOM	6982	CB	ASN	730	15.560	78.286	28.043	1.00	0.00	C
ATOM	6983	CG	ASN	730	15.363	77.861	29.490	1.00	0.00	C
ATOM	6984	OD1	ASN	730	15.040	76.706	29.762	1.00	0.00	O
ATOM	6985	ND2	ASN	730	15.598	78.801	30.445	1.00	0.00	N
ATOM	6986	1HD2	ASN	730	15.466	78.516	31.415	1.00	0.00	H
ATOM	6987	2HD2	ASN	730	15.866	79.759	30.219	1.00	0.00	H
ATOM	6988	C	ASN	730	13.345	77.345	27.511	1.00	0.00	C
ATOM	6989	O	ASN	730	13.184	76.560	26.576	1.00	0.00	O
ATOM	6990	N	ASP	731	12.707	77.224	28.688	1.00	0.00	N
ATOM	6991	HN	ASP	731	12.735	78.009	29.339	1.00	0.00	H
ATOM	6992	CA	ASP	731	11.987	76.040	29.073	1.00	0.00	C
ATOM	6993	CB	ASP	731	11.416	76.143	30.498	1.00	0.00	C
ATOM	6994	CG	ASP	731	12.576	76.076	31.481	1.00	0.00	C
ATOM	6995	OD1	ASP	731	13.495	75.247	31.243	1.00	0.00	O
ATOM	6996	OD2	ASP	731	12.565	76.852	32.475	1.00	0.00	O
ATOM	6997	C	ASP	731	10.844	75.715	28.164	1.00	0.00	C
ATOM	6998	O	ASP	731	10.623	74.541	27.869	1.00	0.00	O
ATOM	6999	N	ALA	732	10.070	76.715	27.699	1.00	0.00	N
ATOM	7000	HN	ALA	732	10.263	77.691	27.925	1.00	0.00	H
ATOM	7001	CA	ALA	732	8.959	76.339	26.868	1.00	0.00	C
ATOM	7002	CB	ALA	732	8.140	77.546	26.385	1.00	0.00	C
ATOM	7003	C	ALA	732	9.486	75.630	25.653	1.00	0.00	C
ATOM	7004	O	ALA	732	8.978	74.586	25.246	1.00	0.00	O
ATOM	7005	N	ALA	733	10.580	76.134	25.068	1.00	0.00	N
ATOM	7006	HN	ALA	733	11.072	76.934	25.466	1.00	0.00	H
ATOM	7007	CA	ALA	733	11.036	75.505	23.857	1.00	0.00	C
ATOM	7008	CB	ALA	733	12.278	76.198	23.273	1.00	0.00	C
ATOM	7009	C	ALA	733	11.400	74.064	24.070	1.00	0.00	C
ATOM	7010	O	ALA	733	10.937	73.177	23.353	1.00	0.00	O
ATOM	7011	N	GLN	734	12.173	73.782	25.125	1.00	0.00	N
ATOM	7012	HN	GLN	734	12.373	74.518	25.803	1.00	0.00	H
ATOM	7013	CA	GLN	734	12.729	72.476	25.331	1.00	0.00	C
ATOM	7014	CB	GLN	734	13.424	72.425	26.697	1.00	0.00	C
ATOM	7015	CG	GLN	734	14.298	73.654	26.970	1.00	0.00	C
ATOM	7016	CD	GLN	734	15.559	73.571	26.129	1.00	0.00	C
ATOM	7017	OE1	GLN	734	16.198	72.523	26.051	1.00	0.00	O
ATOM	7018	NE2	GLN	734	15.931	74.706	25.479	1.00	0.00	N
ATOM	7019	1HE2	GLN	734	16.778	74.650	24.914	1.00	0.00	H
ATOM	7020	2HE2	GLN	734	15.401	75.575	25.544	1.00	0.00	H
ATOM	7021	C	GLN	734	11.617	71.471	25.401	1.00	0.00	C
ATOM	7022	O	GLN	734	11.655	70.427	24.746	1.00	0.00	O
ATOM	7023	N	VAL	735	10.562	71.797	26.167	1.00	0.00	N
ATOM	7024	HN	VAL	735	10.512	72.721	26.597	1.00	0.00	H
ATOM	7025	CA	VAL	735	9.507	70.851	26.382	1.00	0.00	C
ATOM	7026	CB	VAL	735	8.465	71.323	27.361	1.00	0.00	C
ATOM	7027	CG1	VAL	735	8.111	72.795	27.120	1.00	0.00	C

ATOM	7028	CG2	VAL	735	7.247	70.416	27.181	1.00	0.00	C
ATOM	7029	C	VAL	735	8.861	70.445	25.095	1.00	0.00	C
ATOM	7030	O	VAL	735	8.554	69.261	24.918	1.00	0.00	O
ATOM	7031	N	LYS	736	8.690	71.398	24.149	1.00	0.00	N
ATOM	7032	HN	LYS	736	9.016	72.350	24.317	1.00	0.00	H
ATOM	7033	CA	LYS	736	8.047	71.063	22.906	1.00	0.00	C
ATOM	7034	CB	LYS	736	8.001	72.197	21.859	1.00	0.00	C
ATOM	7035	CG	LYS	736	9.344	72.552	21.215	1.00	0.00	C
ATOM	7036	CD	LYS	736	9.204	73.328	19.901	1.00	0.00	C
ATOM	7037	CE	LYS	736	8.085	74.373	19.909	1.00	0.00	C
ATOM	7038	NZ	LYS	736	8.647	75.733	20.067	1.00	0.00	N
ATOM	7039	HZ1	LYS	736	7.902	76.429	20.072	1.00	0.00	H
ATOM	7040	HZ2	LYS	736	9.351	75.937	19.358	1.00	0.00	H
ATOM	7041	HZ3	LYS	736	9.239	75.805	20.895	1.00	0.00	H
ATOM	7042	C	LYS	736	8.835	69.930	22.322	1.00	0.00	C
ATOM	7043	O	LYS	736	8.300	69.043	21.655	1.00	0.00	O
ATOM	7044	N	GLY	737	10.142	69.914	22.630	1.00	0.00	N
ATOM	7045	HN	GLY	737	10.529	70.656	23.213	1.00	0.00	H
ATOM	7046	CA	GLY	737	11.004	68.868	22.152	1.00	0.00	C
ATOM	7047	C	GLY	737	10.582	67.519	22.675	1.00	0.00	C
ATOM	7048	O	GLY	737	10.577	66.539	21.930	1.00	0.00	O
ATOM	7049	N	ALA	738	10.198	67.426	23.964	1.00	0.00	N
ATOM	7050	HN	ALA	738	10.121	68.270	24.532	1.00	0.00	H
ATOM	7051	CA	ALA	738	9.895	66.139	24.546	1.00	0.00	C
ATOM	7052	CB	ALA	738	9.495	66.234	26.031	1.00	0.00	C
ATOM	7053	C	ALA	738	8.751	65.457	23.822	1.00	0.00	C
ATOM	7054	O	ALA	738	8.739	64.231	23.696	1.00	0.00	O
ATOM	7055	N	ILE	739	7.711	66.214	23.405	1.00	0.00	N
ATOM	7056	HN	ILE	739	7.740	67.221	23.564	1.00	0.00	H
ATOM	7057	CA	ILE	739	6.555	65.641	22.739	1.00	0.00	C
ATOM	7058	CB	ILE	739	5.374	66.589	22.754	1.00	0.00	C
ATOM	7059	CG1	ILE	739	4.041	65.872	22.447	1.00	0.00	C
ATOM	7060	CG2	ILE	739	5.681	67.773	21.823	1.00	0.00	C
ATOM	7061	CD1	ILE	739	3.878	65.328	21.026	1.00	0.00	C
ATOM	7062	C	ILE	739	6.797	65.185	21.309	1.00	0.00	C
ATOM	7063	O	ILE	739	6.434	64.068	20.927	1.00	0.00	O
ATOM	7064	N	GLY	740	7.436	66.026	20.471	1.00	0.00	N
ATOM	7065	HN	GLY	740	7.804	66.907	20.829	1.00	0.00	H
ATOM	7066	CA	GLY	740	7.607	65.699	19.075	1.00	0.00	C
ATOM	7067	C	GLY	740	8.352	64.407	18.997	1.00	0.00	C
ATOM	7068	O	GLY	740	8.191	63.636	18.048	1.00	0.00	O
ATOM	7069	N	SER	741	9.217	64.169	20.001	1.00	0.00	N
ATOM	7070	HN	SER	741	9.295	64.856	20.751	1.00	0.00	H
ATOM	7071	CA	SER	741	10.035	62.989	20.062	1.00	0.00	C
ATOM	7072	CB	SER	741	10.907	62.946	21.327	1.00	0.00	C
ATOM	7073	OG	SER	741	11.687	61.760	21.348	1.00	0.00	O
ATOM	7074	HG	SER	741	12.226	61.733	22.130	1.00	0.00	H
ATOM	7075	C	SER	741	9.174	61.759	20.079	1.00	0.00	C
ATOM	7076	O	SER	741	9.454	60.779	19.383	1.00	0.00	O
ATOM	7077	N	ARG	742	8.069	61.793	20.845	1.00	0.00	N
ATOM	7078	HN	ARG	742	7.812	62.645	21.343	1.00	0.00	H
ATOM	7079	CA	ARG	742	7.257	60.616	20.953	1.00	0.00	C
ATOM	7080	CB	ARG	742	6.015	60.822	21.840	1.00	0.00	C
ATOM	7081	CG	ARG	742	6.353	61.147	23.298	1.00	0.00	C
ATOM	7082	CD	ARG	742	6.936	59.966	24.079	1.00	0.00	C
ATOM	7083	NE	ARG	742	7.209	60.444	25.464	1.00	0.00	N
ATOM	7084	HE	ARG	742	6.818	61.331	25.781	1.00	0.00	H
ATOM	7085	CZ	ARG	742	7.981	59.700	26.310	1.00	0.00	C
ATOM	7086	NH1	ARG	742	8.494	58.502	25.904	1.00	0.00	N
ATOM	7087	1HH1	ARG	742	8.300	58.160	24.963	1.00	0.00	H
ATOM	7088	2HH1	ARG	742	9.071	57.946	26.536	1.00	0.00	H
ATOM	7089	NH2	ARG	742	8.241	60.157	27.569	1.00	0.00	N
ATOM	7090	1HH2	ARG	742	7.858	61.052	27.872	1.00	0.00	H
ATOM	7091	2HH2	ARG	742	8.818	59.601	28.201	1.00	0.00	H
ATOM	7092	C	ARG	742	6.782	60.258	19.557	1.00	0.00	C
ATOM	7093	O	ARG	742	6.636	59.089	19.195	1.00	0.00	O
ATOM	7094	N	LEU	743	6.536	61.286	18.726	1.00	0.00	N
ATOM	7095	HN	LEU	743	6.732	62.230	19.059	1.00	0.00	H
ATOM	7096	CA	LEU	743	6.011	61.132	17.389	1.00	0.00	C
ATOM	7097	CB	LEU	743	5.682	62.522	16.801	1.00	0.00	C
ATOM	7098	CG	LEU	743	5.104	62.564	15.372	1.00	0.00	C
ATOM	7099	CD1	LEU	743	6.164	62.265	14.302	1.00	0.00	C
ATOM	7100	CD2	LEU	743	3.851	61.682	15.250	1.00	0.00	C
ATOM	7101	C	LEU	743	6.928	60.387	16.436	1.00	0.00	C

ATOM	7102	O	LEU	743	6.512	59.449	15.754	1.00	0.00	O
ATOM	7103	N	ALA	744	8.216	60.763	16.381	1.00	0.00	N
ATOM	7104	HN	ALA	744	8.530	61.489	17.025	1.00	0.00	H
ATOM	7105	CA	ALA	744	9.185	60.203	15.467	1.00	0.00	C
ATOM	7106	CB	ALA	744	10.568	60.869	15.586	1.00	0.00	C
ATOM	7107	C	ALA	744	9.357	58.759	15.781	1.00	0.00	C
ATOM	7108	O	ALA	744	9.918	58.004	14.987	1.00	0.00	O
ATOM	7109	N	VAL	745	9.030	58.386	17.029	1.00	0.00	N
ATOM	7110	HN	VAL	745	8.674	59.080	17.686	1.00	0.00	H
ATOM	7111	CA	VAL	745	9.175	57.028	17.446	1.00	0.00	C
ATOM	7112	CB	VAL	745	8.880	56.846	18.905	1.00	0.00	C
ATOM	7113	CG1	VAL	745	9.003	55.351	19.245	1.00	0.00	C
ATOM	7114	CG2	VAL	745	9.823	57.755	19.713	1.00	0.00	C
ATOM	7115	C	VAL	745	8.247	56.129	16.695	1.00	0.00	C
ATOM	7116	O	VAL	745	8.675	55.219	15.984	1.00	0.00	O
ATOM	7117	N	ILE	746	6.937	56.422	16.766	1.00	0.00	N
ATOM	7118	HN	ILE	746	6.619	57.273	17.229	1.00	0.00	H
ATOM	7119	CA	ILE	746	5.996	55.514	16.177	1.00	0.00	C
ATOM	7120	CB	ILE	746	4.561	55.926	16.370	1.00	0.00	C
ATOM	7121	CG1	ILE	746	3.620	54.762	16.013	1.00	0.00	C
ATOM	7122	CG2	ILE	746	4.300	57.214	15.570	1.00	0.00	C
ATOM	7123	CD1	ILE	746	2.182	54.970	16.489	1.00	0.00	C
ATOM	7124	C	ILE	746	6.282	55.422	14.710	1.00	0.00	C
ATOM	7125	O	ILE	746	6.246	54.342	14.118	1.00	0.00	O
ATOM	7126	N	THR	747	6.621	56.568	14.096	1.00	0.00	N
ATOM	7127	HN	THR	747	6.748	57.420	14.642	1.00	0.00	H
ATOM	7128	CA	THR	747	6.805	56.595	12.675	1.00	0.00	C
ATOM	7129	CB	THR	747	7.070	57.982	12.159	1.00	0.00	C
ATOM	7130	OG1	THR	747	7.225	57.953	10.749	1.00	0.00	O
ATOM	7131	HG1	THR	747	6.446	57.597	10.338	1.00	0.00	H
ATOM	7132	CG2	THR	747	8.329	58.557	12.823	1.00	0.00	C
ATOM	7133	C	THR	747	7.890	55.694	12.166	1.00	0.00	C
ATOM	7134	O	THR	747	7.605	54.774	11.401	1.00	0.00	O
ATOM	7135	N	GLN	748	9.141	55.859	12.632	1.00	0.00	N
ATOM	7136	HN	GLN	748	9.315	56.507	13.400	1.00	0.00	H
ATOM	7137	CA	GLN	748	10.234	55.126	12.052	1.00	0.00	C
ATOM	7138	CB	GLN	748	11.567	55.375	12.776	1.00	0.00	C
ATOM	7139	CG	GLN	748	11.557	54.856	14.217	1.00	0.00	C
ATOM	7140	CD	GLN	748	12.941	55.023	14.824	1.00	0.00	C
ATOM	7141	OE1	GLN	748	13.579	54.054	15.234	1.00	0.00	O
ATOM	7142	NE2	GLN	748	13.419	56.292	14.895	1.00	0.00	N
ATOM	7143	1HE2	GLN	748	14.347	56.404	15.302	1.00	0.00	H
ATOM	7144	2HE2	GLN	748	12.890	57.095	14.555	1.00	0.00	H
ATOM	7145	C	GLN	748	9.935	53.674	12.210	1.00	0.00	C
ATOM	7146	O	GLN	748	10.139	52.876	11.293	1.00	0.00	O
ATOM	7147	N	ASN	749	9.338	53.333	13.364	1.00	0.00	N
ATOM	7148	HN	ASN	749	9.049	54.061	14.017	1.00	0.00	H
ATOM	7149	CA	ASN	749	9.104	51.961	13.685	1.00	0.00	C
ATOM	7150	CB	ASN	749	8.278	51.797	14.970	1.00	0.00	C
ATOM	7151	CG	ASN	749	7.969	50.316	15.139	1.00	0.00	C
ATOM	7152	OD1	ASN	749	8.713	49.449	14.682	1.00	0.00	O
ATOM	7153	ND2	ASN	749	6.814	50.020	15.793	1.00	0.00	N
ATOM	7154	1HD2	ASN	749	6.197	50.739	16.172	1.00	0.00	H
ATOM	7155	2HD2	ASN	749	6.607	49.028	15.906	1.00	0.00	H
ATOM	7156	C	ASN	749	8.332	51.272	12.614	1.00	0.00	C
ATOM	7157	O	ASN	749	8.803	50.300	12.026	1.00	0.00	O
ATOM	7158	N	ILE	750	7.142	51.786	12.279	1.00	0.00	N
ATOM	7159	HN	ILE	750	6.814	52.666	12.676	1.00	0.00	H
ATOM	7160	CA	ILE	750	6.348	51.050	11.341	1.00	0.00	C
ATOM	7161	CB	ILE	750	4.985	51.638	11.117	1.00	0.00	C
ATOM	7162	CG1	ILE	750	4.154	51.506	12.405	1.00	0.00	C
ATOM	7163	CG2	ILE	750	4.357	50.948	9.894	1.00	0.00	C
ATOM	7164	CD1	ILE	750	2.803	52.210	12.352	1.00	0.00	C
ATOM	7165	C	ILE	750	7.045	50.947	10.023	1.00	0.00	C
ATOM	7166	O	ILE	750	7.071	49.869	9.428	1.00	0.00	O
ATOM	7167	N	ALA	751	7.670	52.045	9.556	1.00	0.00	N
ATOM	7168	HN	ALA	751	7.755	52.875	10.143	1.00	0.00	H
ATOM	7169	CA	ALA	751	8.217	52.041	8.227	1.00	0.00	C
ATOM	7170	CB	ALA	751	9.162	53.218	8.003	1.00	0.00	C
ATOM	7171	C	ALA	751	9.173	50.921	8.040	1.00	0.00	C
ATOM	7172	O	ALA	751	8.903	49.962	7.318	1.00	0.00	O
ATOM	7173	N	ASN	752	10.272	50.979	8.800	1.00	0.00	N
ATOM	7174	HN	ASN	752	10.355	51.683	9.534	1.00	0.00	H
ATOM	7175	CA	ASN	752	11.325	50.047	8.573	1.00	0.00	C

ATOM	7176	CB	ASN	752	12.494	50.277	9.553	1.00	0.00	C
ATOM	7177	CG	ASN	752	13.572	49.210	9.382	1.00	0.00	C
ATOM	7178	OD1	ASN	752	14.606	49.448	8.762	1.00	0.00	O
ATOM	7179	ND2	ASN	752	13.344	48.006	9.975	1.00	0.00	N
ATOM	7180	1HD2	ASN	752	14.064	47.293	9.861	1.00	0.00	H
ATOM	7181	2HD2	ASN	752	12.486	47.808	10.490	1.00	0.00	H
ATOM	7182	C	ASN	752	10.822	48.671	8.805	1.00	0.00	C
ATOM	7183	O	ASN	752	10.822	47.837	7.901	1.00	0.00	O
ATOM	7184	N	LEU	753	10.366	48.404	10.039	1.00	0.00	N
ATOM	7185	HN	LEU	753	10.265	49.134	10.744	1.00	0.00	H
ATOM	7186	CA	LEU	753	10.030	47.045	10.313	1.00	0.00	C
ATOM	7187	CB	LEU	753	9.788	46.813	11.820	1.00	0.00	C
ATOM	7188	CG	LEU	753	9.502	45.356	12.248	1.00	0.00	C
ATOM	7189	CD1	LEU	753	8.106	44.867	11.827	1.00	0.00	C
ATOM	7190	CD2	LEU	753	10.627	44.421	11.778	1.00	0.00	C
ATOM	7191	C	LEU	753	8.816	46.610	9.571	1.00	0.00	C
ATOM	7192	O	LEU	753	8.918	45.826	8.632	1.00	0.00	O
ATOM	7193	N	GLY	754	7.661	47.239	9.867	1.00	0.00	N
ATOM	7194	HN	GLY	754	7.679	48.102	10.411	1.00	0.00	H
ATOM	7195	CA	GLY	754	6.406	46.702	9.422	1.00	0.00	C
ATOM	7196	C	GLY	754	6.385	46.555	7.939	1.00	0.00	C
ATOM	7197	O	GLY	754	6.008	45.508	7.412	1.00	0.00	O
ATOM	7198	N	THR	755	6.811	47.594	7.214	1.00	0.00	N
ATOM	7199	HN	THR	755	7.152	48.445	7.662	1.00	0.00	H
ATOM	7200	CA	THR	755	6.772	47.473	5.790	1.00	0.00	C
ATOM	7201	CB	THR	755	7.093	48.749	5.082	1.00	0.00	C
ATOM	7202	OG1	THR	755	6.224	49.781	5.524	1.00	0.00	O
ATOM	7203	HG1	THR	755	6.351	49.928	6.454	1.00	0.00	H
ATOM	7204	CG2	THR	755	6.887	48.511	3.574	1.00	0.00	C
ATOM	7205	C	THR	755	7.784	46.465	5.359	1.00	0.00	C
ATOM	7206	O	THR	755	7.531	45.644	4.479	1.00	0.00	O
ATOM	7207	N	GLY	756	8.972	46.492	5.985	1.00	0.00	N
ATOM	7208	HN	GLY	756	9.123	47.132	6.765	1.00	0.00	H
ATOM	7209	CA	GLY	756	10.026	45.622	5.558	1.00	0.00	C
ATOM	7210	C	GLY	756	9.613	44.201	5.748	1.00	0.00	C
ATOM	7211	O	GLY	756	9.916	43.355	4.914	1.00	0.00	O
ATOM	7212	N	ILE	757	8.931	43.896	6.866	1.00	0.00	N
ATOM	7213	HN	ILE	757	8.675	44.644	7.511	1.00	0.00	H
ATOM	7214	CA	ILE	757	8.553	42.546	7.176	1.00	0.00	C
ATOM	7215	CB	ILE	757	7.973	42.386	8.552	1.00	0.00	C
ATOM	7216	CG1	ILE	757	6.672	43.183	8.704	1.00	0.00	C
ATOM	7217	CG2	ILE	757	9.055	42.789	9.562	1.00	0.00	C
ATOM	7218	CD1	ILE	757	5.913	42.870	9.993	1.00	0.00	C
ATOM	7219	C	ILE	757	7.558	42.019	6.189	1.00	0.00	C
ATOM	7220	O	ILE	757	7.631	40.862	5.779	1.00	0.00	O
ATOM	7221	N	ILE	758	6.578	42.840	5.779	1.00	0.00	N
ATOM	7222	HN	ILE	758	6.535	43.807	6.101	1.00	0.00	H
ATOM	7223	CA	ILE	758	5.593	42.319	4.875	1.00	0.00	C
ATOM	7224	CB	ILE	758	4.577	43.354	4.492	1.00	0.00	C
ATOM	7225	CG1	ILE	758	3.860	43.889	5.742	1.00	0.00	C
ATOM	7226	CG2	ILE	758	3.628	42.724	3.460	1.00	0.00	C
ATOM	7227	CD1	ILE	758	3.139	42.802	6.536	1.00	0.00	C
ATOM	7228	C	ILE	758	6.308	41.915	3.623	1.00	0.00	C
ATOM	7229	O	ILE	758	6.159	40.802	3.120	1.00	0.00	O
ATOM	7230	N	ILE	759	7.160	42.818	3.119	1.00	0.00	N
ATOM	7231	HN	ILE	759	7.251	43.717	3.593	1.00	0.00	H
ATOM	7232	CA	ILE	759	7.949	42.583	1.947	1.00	0.00	C
ATOM	7233	CB	ILE	759	8.727	43.791	1.494	1.00	0.00	C
ATOM	7234	CG1	ILE	759	7.761	44.830	0.898	1.00	0.00	C
ATOM	7235	CG2	ILE	759	9.790	43.350	0.474	1.00	0.00	C
ATOM	7236	CD1	ILE	759	6.728	45.376	1.876	1.00	0.00	C
ATOM	7237	C	ILE	759	8.865	41.456	2.277	1.00	0.00	C
ATOM	7238	O	ILE	759	9.427	40.801	1.403	1.00	0.00	O
ATOM	7239	N	SER	760	9.127	41.273	3.576	1.00	0.00	N
ATOM	7240	HN	SER	760	8.730	41.911	4.266	1.00	0.00	H
ATOM	7241	CA	SER	760	9.955	40.195	4.005	1.00	0.00	C
ATOM	7242	CB	SER	760	10.267	40.240	5.509	1.00	0.00	C
ATOM	7243	OG	SER	760	10.896	39.039	5.912	1.00	0.00	O
ATOM	7244	HG	SER	760	11.089	39.067	6.842	1.00	0.00	H
ATOM	7245	C	SER	760	9.252	38.917	3.685	1.00	0.00	C
ATOM	7246	O	SER	760	9.892	37.898	3.427	1.00	0.00	O
ATOM	7247	N	PHE	761	7.906	38.935	3.697	1.00	0.00	N
ATOM	7248	HN	PHE	761	7.405	39.792	3.930	1.00	0.00	H
ATOM	7249	CA	PHE	761	7.184	37.739	3.379	1.00	0.00	C

ATOM	7250	CB	PHE	761	5.656	37.901	3.478	1.00	0.00	C
ATOM	7251	CG	PHE	761	5.295	38.057	4.915	1.00	0.00	C
ATOM	7252	CD1	PHE	761	5.295	39.297	5.510	1.00	0.00	C
ATOM	7253	CD2	PHE	761	4.957	36.957	5.670	1.00	0.00	C
ATOM	7254	CE1	PHE	761	4.962	39.436	6.836	1.00	0.00	C
ATOM	7255	CE2	PHE	761	4.623	37.090	6.997	1.00	0.00	C
ATOM	7256	CZ	PHE	761	4.625	38.333	7.582	1.00	0.00	C
ATOM	7257	C	PHE	761	7.500	37.381	1.964	1.00	0.00	C
ATOM	7258	O	PHE	761	7.894	36.254	1.668	1.00	0.00	O
ATOM	7259	N	ILE	762	7.399	38.364	1.052	1.00	0.00	N
ATOM	7260	HN	ILE	762	7.152	39.310	1.342	1.00	0.00	H
ATOM	7261	CA	ILE	762	7.641	38.074	-0.329	1.00	0.00	C
ATOM	7262	CB	ILE	762	7.424	39.214	-1.291	1.00	0.00	C
ATOM	7263	CG1	ILE	762	7.411	38.653	-2.718	1.00	0.00	C
ATOM	7264	CG2	ILE	762	8.499	40.291	-1.106	1.00	0.00	C
ATOM	7265	CD1	ILE	762	6.965	39.670	-3.764	1.00	0.00	C
ATOM	7266	C	ILE	762	9.047	37.595	-0.448	1.00	0.00	C
ATOM	7267	O	ILE	762	9.375	36.843	-1.365	1.00	0.00	O
ATOM	7268	N	TYR	763	9.942	38.071	0.439	1.00	0.00	N
ATOM	7269	HN	TYR	763	9.680	38.755	1.149	1.00	0.00	H
ATOM	7270	CA	TYR	763	11.282	37.568	0.335	1.00	0.00	C
ATOM	7271	CB	TYR	763	12.332	38.017	1.360	1.00	0.00	C
ATOM	7272	CG	TYR	763	12.553	39.484	1.372	1.00	0.00	C
ATOM	7273	CD1	TYR	763	12.776	40.204	0.224	1.00	0.00	C
ATOM	7274	CD2	TYR	763	12.509	40.144	2.572	1.00	0.00	C
ATOM	7275	CE1	TYR	763	12.966	41.564	0.298	1.00	0.00	C
ATOM	7276	CE2	TYR	763	12.698	41.499	2.652	1.00	0.00	C
ATOM	7277	CZ	TYR	763	12.929	42.214	1.509	1.00	0.00	C
ATOM	7278	OH	TYR	763	13.120	43.608	1.590	1.00	0.00	O
ATOM	7279	HH	TYR	763	13.094	44.057	2.427	1.00	0.00	H
ATOM	7280	C	TYR	763	11.214	36.088	0.524	1.00	0.00	C
ATOM	7281	O	TYR	763	10.380	35.592	1.282	1.00	0.00	O
ATOM	7282	N	GLY	764	12.094	35.346	-0.181	1.00	0.00	N
ATOM	7283	HN	GLY	764	12.798	35.803	-0.761	1.00	0.00	H
ATOM	7284	CA	GLY	764	12.039	33.916	-0.115	1.00	0.00	C
ATOM	7285	C	GLY	764	13.065	33.353	0.831	1.00	0.00	C
ATOM	7286	O	GLY	764	13.849	32.480	0.466	1.00	0.00	O
ATOM	7287	N	TRP	765	13.120	33.883	2.065	1.00	0.00	N
ATOM	7288	HN	TRP	765	12.671	34.784	2.231	1.00	0.00	H
ATOM	7289	CA	TRP	765	13.787	33.231	3.161	1.00	0.00	C
ATOM	7290	CB	TRP	765	13.176	31.839	3.381	1.00	0.00	C
ATOM	7291	CG	TRP	765	11.669	31.877	3.463	1.00	0.00	C
ATOM	7292	CD2	TRP	765	10.887	31.755	4.661	1.00	0.00	C
ATOM	7293	CD1	TRP	765	10.780	32.021	2.438	1.00	0.00	C
ATOM	7294	NE1	TRP	765	9.495	32.007	2.921	1.00	0.00	N
ATOM	7295	HE1	TRP	765	8.647	32.103	2.363	1.00	0.00	H
ATOM	7296	CE2	TRP	765	9.545	31.841	4.288	1.00	0.00	C
ATOM	7297	CE3	TRP	765	11.256	31.586	5.964	1.00	0.00	C
ATOM	7298	CZ2	TRP	765	8.548	31.760	5.216	1.00	0.00	C
ATOM	7299	CZ3	TRP	765	10.247	31.502	6.898	1.00	0.00	C
ATOM	7300	CH2	TRP	765	8.920	31.588	6.530	1.00	0.00	C
ATOM	7301	C	TRP	765	15.265	33.015	2.949	1.00	0.00	C
ATOM	7302	O	TRP	765	15.848	32.196	3.657	1.00	0.00	O
ATOM	7303	N	GLN	766	15.901	33.566	1.899	1.00	0.00	N
ATOM	7304	HN	GLN	766	15.384	34.068	1.177	1.00	0.00	H
ATOM	7305	CA	GLN	766	17.335	33.427	1.822	1.00	0.00	C
ATOM	7306	CB	GLN	766	17.798	33.077	0.404	1.00	0.00	C
ATOM	7307	CG	GLN	766	17.140	31.784	-0.072	1.00	0.00	C
ATOM	7308	CD	GLN	766	17.208	30.805	1.091	1.00	0.00	C
ATOM	7309	OE1	GLN	766	18.282	30.513	1.612	1.00	0.00	O
ATOM	7310	NE2	GLN	766	16.021	30.300	1.524	1.00	0.00	N
ATOM	7311	1HE2	GLN	766	16.067	29.644	2.304	1.00	0.00	H
ATOM	7312	2HE2	GLN	766	15.130	30.542	1.092	1.00	0.00	H
ATOM	7313	C	GLN	766	18.101	34.636	2.293	1.00	0.00	C
ATOM	7314	O	GLN	766	19.232	34.537	2.767	1.00	0.00	O
ATOM	7315	N	LEU	767	17.595	35.821	1.902	1.00	0.00	N
ATOM	7316	HN	LEU	767	16.750	35.797	1.331	1.00	0.00	H
ATOM	7317	CA	LEU	767	18.132	37.113	2.213	1.00	0.00	C
ATOM	7318	CB	LEU	767	18.013	38.107	1.053	1.00	0.00	C
ATOM	7319	CG	LEU	767	18.962	37.747	-0.103	1.00	0.00	C
ATOM	7320	CD1	LEU	767	20.432	37.897	0.325	1.00	0.00	C
ATOM	7321	CD2	LEU	767	18.657	36.349	-0.665	1.00	0.00	C
ATOM	7322	C	LEU	767	17.549	37.727	3.426	1.00	0.00	C
ATOM	7323	O	LEU	767	18.262	38.408	4.147	1.00	0.00	O

ATOM	7324	N	THR	768	16.238	37.527	3.674	1.00	0.00	N
ATOM	7325	HN	THR	768	15.705	36.892	3.081	1.00	0.00	H
ATOM	7326	CA	THR	768	15.583	38.198	4.764	1.00	0.00	C
ATOM	7327	CB	THR	768	14.220	37.661	5.047	1.00	0.00	C
ATOM	7328	OG1	THR	768	13.407	37.749	3.894	1.00	0.00	O
ATOM	7329	HG1	THR	768	12.539	37.407	4.074	1.00	0.00	H
ATOM	7330	CG2	THR	768	13.608	38.482	6.192	1.00	0.00	C
ATOM	7331	C	THR	768	16.357	37.874	5.982	1.00	0.00	C
ATOM	7332	O	THR	768	16.775	38.755	6.732	1.00	0.00	O
ATOM	7333	N	LEU	769	16.600	36.572	6.157	1.00	0.00	N
ATOM	7334	HN	LEU	769	16.212	35.895	5.500	1.00	0.00	H
ATOM	7335	CA	LEU	769	17.392	36.118	7.246	1.00	0.00	C
ATOM	7336	CB	LEU	769	17.429	34.589	7.375	1.00	0.00	C
ATOM	7337	CG	LEU	769	18.098	34.087	8.673	1.00	0.00	C
ATOM	7338	CD1	LEU	769	19.606	34.377	8.742	1.00	0.00	C
ATOM	7339	CD2	LEU	769	17.345	34.618	9.900	1.00	0.00	C
ATOM	7340	C	LEU	769	18.782	36.580	6.984	1.00	0.00	C
ATOM	7341	O	LEU	769	19.503	36.984	7.890	1.00	0.00	O
ATOM	7342	N	LEU	770	19.180	36.574	5.706	1.00	0.00	N
ATOM	7343	HN	LEU	770	18.497	36.365	4.978	1.00	0.00	H
ATOM	7344	CA	LEU	770	20.529	36.851	5.328	1.00	0.00	C
ATOM	7345	CB	LEU	770	20.663	36.904	3.793	1.00	0.00	C
ATOM	7346	CG	LEU	770	22.102	36.885	3.252	1.00	0.00	C
ATOM	7347	CD1	LEU	770	22.916	38.105	3.693	1.00	0.00	C
ATOM	7348	CD2	LEU	770	22.785	35.555	3.585	1.00	0.00	C
ATOM	7349	C	LEU	770	20.946	38.189	5.896	1.00	0.00	C
ATOM	7350	O	LEU	770	22.040	38.303	6.439	1.00	0.00	O
ATOM	7351	N	LEU	771	20.110	39.232	5.720	1.00	0.00	N
ATOM	7352	HN	LEU	771	19.243	39.014	5.229	1.00	0.00	H
ATOM	7353	CA	LEU	771	20.255	40.605	6.120	1.00	0.00	C
ATOM	7354	CB	LEU	771	19.328	41.496	5.266	1.00	0.00	C
ATOM	7355	CG	LEU	771	19.355	43.028	5.483	1.00	0.00	C
ATOM	7356	CD1	LEU	771	18.495	43.690	4.401	1.00	0.00	C
ATOM	7357	CD2	LEU	771	18.886	43.489	6.875	1.00	0.00	C
ATOM	7358	C	LEU	771	19.959	40.864	7.557	1.00	0.00	C
ATOM	7359	O	LEU	771	20.695	41.584	8.215	1.00	0.00	O
ATOM	7360	N	LEU	772	18.879	40.284	8.092	1.00	0.00	N
ATOM	7361	HN	LEU	772	18.370	39.593	7.541	1.00	0.00	H
ATOM	7362	CA	LEU	772	18.409	40.597	9.411	1.00	0.00	C
ATOM	7363	CB	LEU	772	17.246	39.657	9.779	1.00	0.00	C
ATOM	7364	CG	LEU	772	16.633	39.852	11.173	1.00	0.00	C
ATOM	7365	CD1	LEU	772	17.571	39.384	12.297	1.00	0.00	C
ATOM	7366	CD2	LEU	772	16.144	41.295	11.358	1.00	0.00	C
ATOM	7367	C	LEU	772	19.540	40.341	10.337	1.00	0.00	C
ATOM	7368	O	LEU	772	19.683	41.004	11.358	1.00	0.00	O
ATOM	7369	N	ALA	773	20.365	39.337	10.035	1.00	0.00	N
ATOM	7370	HN	ALA	773	20.203	38.741	9.223	1.00	0.00	H
ATOM	7371	CA	ALA	773	21.485	39.133	10.897	1.00	0.00	C
ATOM	7372	CB	ALA	773	22.304	37.890	10.513	1.00	0.00	C
ATOM	7373	C	ALA	773	22.409	40.317	10.809	1.00	0.00	C
ATOM	7374	O	ALA	773	22.827	40.862	11.829	1.00	0.00	O
ATOM	7375	N	ILE	774	22.729	40.767	9.577	1.00	0.00	N
ATOM	7376	HN	ILE	774	22.290	40.343	8.759	1.00	0.00	H
ATOM	7377	CA	ILE	774	23.677	41.833	9.397	1.00	0.00	C
ATOM	7378	CB	ILE	774	24.133	42.106	7.987	1.00	0.00	C
ATOM	7379	CG1	ILE	774	22.983	42.527	7.066	1.00	0.00	C
ATOM	7380	CG2	ILE	774	24.945	40.905	7.508	1.00	0.00	C
ATOM	7381	CD1	ILE	774	23.448	43.080	5.723	1.00	0.00	C
ATOM	7382	C	ILE	774	23.219	43.149	9.939	1.00	0.00	C
ATOM	7383	O	ILE	774	23.992	43.797	10.638	1.00	0.00	O
ATOM	7384	N	VAL	775	21.979	43.598	9.658	1.00	0.00	N
ATOM	7385	HN	VAL	775	21.309	43.026	9.144	1.00	0.00	H
ATOM	7386	CA	VAL	775	21.643	44.919	10.115	1.00	0.00	C
ATOM	7387	CB	VAL	775	20.309	45.424	9.656	1.00	0.00	C
ATOM	7388	CG1	VAL	775	19.980	46.702	10.447	1.00	0.00	C
ATOM	7389	CG2	VAL	775	20.401	45.677	8.142	1.00	0.00	C
ATOM	7390	C	VAL	775	21.726	44.980	11.601	1.00	0.00	C
ATOM	7391	O	VAL	775	22.343	45.904	12.118	1.00	0.00	O
ATOM	7392	N	PRO	776	21.173	44.068	12.337	1.00	0.00	N
ATOM	7393	CA	PRO	776	21.388	44.191	13.745	1.00	0.00	C
ATOM	7394	CD	PRO	776	19.795	43.696	12.082	1.00	0.00	C
ATOM	7395	CB	PRO	776	20.428	43.201	14.391	1.00	0.00	C
ATOM	7396	CG	PRO	776	19.210	43.290	13.450	1.00	0.00	C
ATOM	7397	C	PRO	776	22.825	44.148	14.154	1.00	0.00	C

ATOM	7398	O	PRO	776	23.178	44.880	15.071	1.00	0.00	O
ATOM	7399	N	ILE	777	23.682	43.348	13.500	1.00	0.00	N
ATOM	7400	HN	ILE	777	23.363	42.770	12.722	1.00	0.00	H
ATOM	7401	CA	ILE	777	25.055	43.321	13.916	1.00	0.00	C
ATOM	7402	CB	ILE	777	25.821	42.183	13.302	1.00	0.00	C
ATOM	7403	CG1	ILE	777	27.106	41.933	14.089	1.00	0.00	C
ATOM	7404	CG2	ILE	777	26.066	42.451	11.810	1.00	0.00	C
ATOM	7405	CD1	ILE	777	27.724	40.593	13.721	1.00	0.00	C
ATOM	7406	C	ILE	777	25.712	44.631	13.592	1.00	0.00	C
ATOM	7407	O	ILE	777	26.429	45.195	14.415	1.00	0.00	O
ATOM	7408	N	ILE	778	25.479	45.155	12.375	1.00	0.00	N
ATOM	7409	HN	ILE	778	24.870	44.647	11.734	1.00	0.00	H
ATOM	7410	CA	ILE	778	26.049	46.396	11.940	1.00	0.00	C
ATOM	7411	CB	ILE	778	25.788	46.589	10.465	1.00	0.00	C
ATOM	7412	CG1	ILE	778	26.387	47.884	9.925	1.00	0.00	C
ATOM	7413	CG2	ILE	778	24.279	46.485	10.214	1.00	0.00	C
ATOM	7414	CD1	ILE	778	25.618	49.138	10.329	1.00	0.00	C
ATOM	7415	C	ILE	778	25.491	47.515	12.778	1.00	0.00	C
ATOM	7416	O	ILE	778	26.225	48.398	13.216	1.00	0.00	O
ATOM	7417	N	ALA	779	24.171	47.507	13.034	1.00	0.00	N
ATOM	7418	HN	ALA	779	23.600	46.749	12.659	1.00	0.00	H
ATOM	7419	CA	ALA	779	23.538	48.531	13.819	1.00	0.00	C
ATOM	7420	CB	ALA	779	22.019	48.328	13.946	1.00	0.00	C
ATOM	7421	C	ALA	779	24.116	48.466	15.195	1.00	0.00	C
ATOM	7422	O	ALA	779	24.461	49.489	15.787	1.00	0.00	O
ATOM	7423	N	ILE	780	24.282	47.236	15.717	1.00	0.00	N
ATOM	7424	HN	ILE	780	24.017	46.417	15.170	1.00	0.00	H
ATOM	7425	CA	ILE	780	24.825	47.063	17.029	1.00	0.00	C
ATOM	7426	CB	ILE	780	24.963	45.634	17.483	1.00	0.00	C
ATOM	7427	CG1	ILE	780	23.582	45.016	17.767	1.00	0.00	C
ATOM	7428	CG2	ILE	780	25.895	45.615	18.707	1.00	0.00	C
ATOM	7429	CD1	ILE	780	23.605	43.495	17.912	1.00	0.00	C
ATOM	7430	C	ILE	780	26.178	47.678	17.014	1.00	0.00	C
ATOM	7431	O	ILE	780	26.631	48.202	18.026	1.00	0.00	O
ATOM	7432	N	ALA	781	26.875	47.607	15.867	1.00	0.00	N
ATOM	7433	HN	ALA	781	26.470	47.146	15.052	1.00	0.00	H
ATOM	7434	CA	ALA	781	28.184	48.177	15.789	1.00	0.00	C
ATOM	7435	CB	ALA	781	28.815	48.014	14.397	1.00	0.00	C
ATOM	7436	C	ALA	781	28.088	49.642	16.073	1.00	0.00	C
ATOM	7437	O	ALA	781	28.864	50.152	16.877	1.00	0.00	O
ATOM	7438	N	GLY	782	27.090	50.343	15.491	1.00	0.00	N
ATOM	7439	HN	GLY	782	26.391	49.855	14.931	1.00	0.00	H
ATOM	7440	CA	GLY	782	27.003	51.773	15.653	1.00	0.00	C
ATOM	7441	C	GLY	782	26.959	52.078	17.119	1.00	0.00	C
ATOM	7442	O	GLY	782	27.678	52.956	17.595	1.00	0.00	O
ATOM	7443	N	VAL	783	26.121	51.349	17.878	1.00	0.00	N
ATOM	7444	HN	VAL	783	25.540	50.627	17.452	1.00	0.00	H
ATOM	7445	CA	VAL	783	26.049	51.593	19.290	1.00	0.00	C
ATOM	7446	CB	VAL	783	24.873	50.929	19.955	1.00	0.00	C
ATOM	7447	CG1	VAL	783	25.039	49.403	19.905	1.00	0.00	C
ATOM	7448	CG2	VAL	783	24.754	51.483	21.383	1.00	0.00	C
ATOM	7449	C	VAL	783	27.309	51.142	20.000	1.00	0.00	C
ATOM	7450	O	VAL	783	27.873	51.892	20.794	1.00	0.00	O
ATOM	7451	N	VAL	784	27.813	49.920	19.714	1.00	0.00	N
ATOM	7452	HN	VAL	784	27.385	49.381	18.962	1.00	0.00	H
ATOM	7453	CA	VAL	784	28.933	49.343	20.428	1.00	0.00	C
ATOM	7454	CB	VAL	784	29.249	47.943	19.982	1.00	0.00	C
ATOM	7455	CG1	VAL	784	29.671	47.980	18.505	1.00	0.00	C
ATOM	7456	CG2	VAL	784	30.320	47.354	20.917	1.00	0.00	C
ATOM	7457	C	VAL	784	30.165	50.170	20.242	1.00	0.00	C
ATOM	7458	O	VAL	784	30.930	50.371	21.186	1.00	0.00	O
ATOM	7459	N	GLU	785	30.404	50.661	19.014	1.00	0.00	N
ATOM	7460	HN	GLU	785	29.760	50.457	18.250	1.00	0.00	H
ATOM	7461	CA	GLU	785	31.560	51.469	18.776	1.00	0.00	C
ATOM	7462	CB	GLU	785	31.636	51.977	17.336	1.00	0.00	C
ATOM	7463	CG	GLU	785	32.864	52.846	17.084	1.00	0.00	C
ATOM	7464	CD	GLU	785	32.546	53.684	15.861	1.00	0.00	C
ATOM	7465	OE1	GLU	785	31.649	54.561	15.981	1.00	0.00	O
ATOM	7466	OE2	GLU	785	33.177	53.459	14.794	1.00	0.00	O
ATOM	7467	C	GLU	785	31.412	52.679	19.628	1.00	0.00	C
ATOM	7468	O	GLU	785	32.340	53.079	20.323	1.00	0.00	O
ATOM	7469	N	MET	786	30.203	53.260	19.645	1.00	0.00	N
ATOM	7470	HN	MET	786	29.439	52.854	19.106	1.00	0.00	H
ATOM	7471	CA	MET	786	29.978	54.445	20.414	1.00	0.00	C

ATOM	7472	CB	MET	786	28.506	54.899	20.392	1.00	0.00	C
ATOM	7473	CG	MET	786	28.093	55.709	21.629	1.00	0.00	C
ATOM	7474	SD	MET	786	27.550	54.682	23.037	1.00	0.00	S
ATOM	7475	CE	MET	786	27.961	55.877	24.339	1.00	0.00	C
ATOM	7476	C	MET	786	30.314	54.143	21.838	1.00	0.00	C
ATOM	7477	O	MET	786	30.963	54.950	22.498	1.00	0.00	O
ATOM	7478	N	LYS	787	29.904	52.962	22.340	1.00	0.00	N
ATOM	7479	HN	LYS	787	29.457	52.288	21.718	1.00	0.00	H
ATOM	7480	CA	LYS	787	30.079	52.623	23.728	1.00	0.00	C
ATOM	7481	CB	LYS	787	29.696	51.164	24.031	1.00	0.00	C
ATOM	7482	CG	LYS	787	29.973	50.768	25.485	1.00	0.00	C
ATOM	7483	CD	LYS	787	29.619	49.319	25.828	1.00	0.00	C
ATOM	7484	CE	LYS	787	28.344	48.808	25.163	1.00	0.00	C
ATOM	7485	NZ	LYS	787	28.191	47.363	25.435	1.00	0.00	N
ATOM	7486	HZ1	LYS	787	27.339	47.021	24.991	1.00	0.00	H
ATOM	7487	HZ2	LYS	787	28.216	47.154	26.433	1.00	0.00	H
ATOM	7488	HZ3	LYS	787	29.013	46.829	25.154	1.00	0.00	H
ATOM	7489	C	LYS	787	31.534	52.666	24.115	1.00	0.00	C
ATOM	7490	O	LYS	787	31.901	53.359	25.061	1.00	0.00	O
ATOM	7491	N	MET	788	32.403	51.928	23.389	1.00	0.00	N
ATOM	7492	HN	MET	788	32.064	51.417	22.574	1.00	0.00	H
ATOM	7493	CA	MET	788	33.800	51.848	23.743	1.00	0.00	C
ATOM	7494	CB	MET	788	34.609	50.828	22.921	1.00	0.00	C
ATOM	7495	CG	MET	788	36.086	50.782	23.330	1.00	0.00	C
ATOM	7496	SD	MET	788	36.400	50.150	25.008	1.00	0.00	S
ATOM	7497	CE	MET	788	35.984	48.422	24.639	1.00	0.00	C
ATOM	7498	C	MET	788	34.437	53.185	23.572	1.00	0.00	C
ATOM	7499	O	MET	788	35.302	53.571	24.357	1.00	0.00	O
ATOM	7500	N	LEU	789	34.023	53.928	22.530	1.00	0.00	N
ATOM	7501	HN	LEU	789	33.318	53.553	21.895	1.00	0.00	H
ATOM	7502	CA	LEU	789	34.555	55.237	22.297	1.00	0.00	C
ATOM	7503	CB	LEU	789	33.986	55.927	21.051	1.00	0.00	C
ATOM	7504	CG	LEU	789	34.718	55.544	19.754	1.00	0.00	C
ATOM	7505	CD1	LEU	789	34.776	54.028	19.538	1.00	0.00	C
ATOM	7506	CD2	LEU	789	34.109	56.288	18.559	1.00	0.00	C
ATOM	7507	C	LEU	789	34.224	56.068	23.484	1.00	0.00	C
ATOM	7508	O	LEU	789	34.994	56.947	23.862	1.00	0.00	O
ATOM	7509	N	SER	790	33.046	55.825	24.081	1.00	0.00	N
ATOM	7510	HN	SER	790	32.439	55.103	23.694	1.00	0.00	H
ATOM	7511	CA	SER	790	32.612	56.542	25.240	1.00	0.00	C
ATOM	7512	CB	SER	790	31.196	56.127	25.672	1.00	0.00	C
ATOM	7513	OG	SER	790	30.802	56.860	26.820	1.00	0.00	O
ATOM	7514	HG	SER	790	29.927	56.604	27.087	1.00	0.00	H
ATOM	7515	C	SER	790	33.537	56.247	26.384	1.00	0.00	C
ATOM	7516	O	SER	790	33.960	57.158	27.092	1.00	0.00	O
ATOM	7517	N	GLY	791	33.903	54.965	26.583	1.00	0.00	N
ATOM	7518	HN	GLY	791	33.610	54.241	25.927	1.00	0.00	H
ATOM	7519	CA	GLY	791	34.706	54.623	27.720	1.00	0.00	C
ATOM	7520	C	GLY	791	36.014	55.341	27.641	1.00	0.00	C
ATOM	7521	O	GLY	791	36.484	55.894	28.632	1.00	0.00	O
ATOM	7522	N	GLN	792	36.647	55.338	26.456	1.00	0.00	N
ATOM	7523	HN	GLN	792	36.221	54.866	25.659	1.00	0.00	H
ATOM	7524	CA	GLN	792	37.912	55.989	26.298	1.00	0.00	C
ATOM	7525	CB	GLN	792	38.544	55.705	24.929	1.00	0.00	C
ATOM	7526	CG	GLN	792	39.906	56.370	24.752	1.00	0.00	C
ATOM	7527	CD	GLN	792	40.891	55.634	25.649	1.00	0.00	C
ATOM	7528	OE1	GLN	792	41.100	54.430	25.511	1.00	0.00	O
ATOM	7529	NE2	GLN	792	41.508	56.377	26.607	1.00	0.00	N
ATOM	7530	1HE2	GLN	792	42.168	55.884	27.208	1.00	0.00	H
ATOM	7531	2HE2	GLN	792	41.335	57.376	26.721	1.00	0.00	H
ATOM	7532	C	GLN	792	37.732	57.476	26.417	1.00	0.00	C
ATOM	7533	O	GLN	792	38.542	58.147	27.049	1.00	0.00	O
ATOM	7534	N	ALA	793	36.658	58.032	25.816	1.00	0.00	N
ATOM	7535	HN	ALA	793	35.982	57.427	25.349	1.00	0.00	H
ATOM	7536	CA	ALA	793	36.441	59.458	25.817	1.00	0.00	C
ATOM	7537	CB	ALA	793	35.163	59.859	25.059	1.00	0.00	C
ATOM	7538	C	ALA	793	36.267	59.921	27.231	1.00	0.00	C
ATOM	7539	O	ALA	793	36.849	60.927	27.627	1.00	0.00	O
ATOM	7540	N	LEU	794	35.456	59.196	28.027	1.00	0.00	N
ATOM	7541	HN	LEU	794	35.038	58.343	27.657	1.00	0.00	H
ATOM	7542	CA	LEU	794	35.160	59.583	29.379	1.00	0.00	C
ATOM	7543	CB	LEU	794	34.046	58.710	29.996	1.00	0.00	C
ATOM	7544	CG	LEU	794	33.488	59.182	31.358	1.00	0.00	C
ATOM	7545	CD1	LEU	794	34.529	59.105	32.485	1.00	0.00	C

ATOM	7546	CD2	LEU	794	32.829	60.566	31.239	1.00	0.00	C
ATOM	7547	C	LEU	794	36.386	59.449	30.230	1.00	0.00	C
ATOM	7548	O	LEU	794	36.715	60.356	30.991	1.00	0.00	O
ATOM	7549	N	LYS	795	37.109	58.317	30.110	1.00	0.00	N
ATOM	7550	HN	LYS	795	36.855	57.629	29.401	1.00	0.00	H
ATOM	7551	CA	LYS	795	38.232	58.070	30.968	1.00	0.00	C
ATOM	7552	CB	LYS	795	38.912	56.714	30.723	1.00	0.00	C
ATOM	7553	CG	LYS	795	39.569	56.605	29.349	1.00	0.00	C
ATOM	7554	CD	LYS	795	40.630	55.507	29.274	1.00	0.00	C
ATOM	7555	CE	LYS	795	41.929	55.894	29.984	1.00	0.00	C
ATOM	7556	NZ	LYS	795	42.944	54.836	29.811	1.00	0.00	N
ATOM	7557	HZ1	LYS	795	43.810	55.094	30.284	1.00	0.00	H
ATOM	7558	HZ2	LYS	795	43.100	54.616	28.827	1.00	0.00	H
ATOM	7559	HZ3	LYS	795	42.600	53.926	30.117	1.00	0.00	H
ATOM	7560	C	LYS	795	39.266	59.124	30.735	1.00	0.00	C
ATOM	7561	O	LYS	795	39.832	59.653	31.688	1.00	0.00	O
ATOM	7562	N	ASP	796	39.548	59.451	29.459	1.00	0.00	N
ATOM	7563	HN	ASP	796	39.043	58.994	28.699	1.00	0.00	H
ATOM	7564	CA	ASP	796	40.550	60.434	29.153	1.00	0.00	C
ATOM	7565	CB	ASP	796	40.892	60.527	27.659	1.00	0.00	C
ATOM	7566	CG	ASP	796	42.261	61.187	27.561	1.00	0.00	C
ATOM	7567	OD1	ASP	796	42.336	62.443	27.620	1.00	0.00	O
ATOM	7568	OD2	ASP	796	43.257	60.427	27.426	1.00	0.00	O
ATOM	7569	C	ASP	796	40.059	61.752	29.613	1.00	0.00	C
ATOM	7570	O	ASP	796	40.831	62.583	30.084	1.00	0.00	O
ATOM	7571	N	LYS	797	38.744	61.969	29.503	1.00	0.00	N
ATOM	7572	HN	LYS	797	38.137	61.248	29.112	1.00	0.00	H
ATOM	7573	CA	LYS	797	38.195	63.207	29.933	1.00	0.00	C
ATOM	7574	CB	LYS	797	36.679	63.262	29.764	1.00	0.00	C
ATOM	7575	CG	LYS	797	36.118	64.663	29.949	1.00	0.00	C
ATOM	7576	CD	LYS	797	34.711	64.795	29.377	1.00	0.00	C
ATOM	7577	CE	LYS	797	34.633	64.428	27.892	1.00	0.00	C
ATOM	7578	NZ	LYS	797	33.223	64.241	27.485	1.00	0.00	N
ATOM	7579	HZ1	LYS	797	33.171	63.997	26.496	1.00	0.00	H
ATOM	7580	HZ2	LYS	797	32.651	65.056	27.707	1.00	0.00	H
ATOM	7581	HZ3	LYS	797	32.744	63.558	28.072	1.00	0.00	H
ATOM	7582	C	LYS	797	38.524	63.275	31.389	1.00	0.00	C
ATOM	7583	O	LYS	797	38.652	64.366	31.929	1.00	0.00	O
ATOM	7584	N	LYS	798	38.598	62.105	32.066	1.00	0.00	N
ATOM	7585	HN	LYS	798	38.401	61.246	31.552	1.00	0.00	H
ATOM	7586	CA	LYS	798	38.936	61.989	33.465	1.00	0.00	C
ATOM	7587	CB	LYS	798	38.645	60.583	34.019	1.00	0.00	C
ATOM	7588	CG	LYS	798	37.151	60.254	34.035	1.00	0.00	C
ATOM	7589	CD	LYS	798	36.324	61.212	34.896	1.00	0.00	C
ATOM	7590	CE	LYS	798	34.813	61.022	34.751	1.00	0.00	C
ATOM	7591	NZ	LYS	798	34.097	61.987	35.616	1.00	0.00	N
ATOM	7592	HZ1	LYS	798	33.090	61.860	35.519	1.00	0.00	H
ATOM	7593	HZ2	LYS	798	34.381	62.949	35.432	1.00	0.00	H
ATOM	7594	HZ3	LYS	798	34.399	61.926	36.588	1.00	0.00	H
ATOM	7595	C	LYS	798	40.388	62.302	33.762	1.00	0.00	C
ATOM	7596	O	LYS	798	40.684	63.086	34.658	1.00	0.00	O
ATOM	7597	N	GLU	799	41.354	61.710	33.031	1.00	0.00	N
ATOM	7598	HN	GLU	799	41.105	61.102	32.251	1.00	0.00	H
ATOM	7599	CA	GLU	799	42.741	61.940	33.357	1.00	0.00	C
ATOM	7600	CB	GLU	799	43.664	61.145	32.418	1.00	0.00	C
ATOM	7601	CG	GLU	799	43.485	59.629	32.548	1.00	0.00	C
ATOM	7602	CD	GLU	799	44.022	58.966	31.285	1.00	0.00	C
ATOM	7603	OE1	GLU	799	44.408	59.710	30.344	1.00	0.00	O
ATOM	7604	OE2	GLU	799	44.043	57.707	31.239	1.00	0.00	O
ATOM	7605	C	GLU	799	42.999	63.394	33.133	1.00	0.00	C
ATOM	7606	O	GLU	799	43.566	64.094	33.970	1.00	0.00	O
ATOM	7607	N	LEU	800	42.506	63.864	31.980	1.00	0.00	N
ATOM	7608	HN	LEU	800	42.034	63.176	31.394	1.00	0.00	H
ATOM	7609	CA	LEU	800	42.547	65.192	31.453	1.00	0.00	C
ATOM	7610	CB	LEU	800	41.747	65.169	30.134	1.00	0.00	C
ATOM	7611	CG	LEU	800	41.360	66.507	29.492	1.00	0.00	C
ATOM	7612	CD1	LEU	800	40.237	67.218	30.266	1.00	0.00	C
ATOM	7613	CD2	LEU	800	42.591	67.385	29.260	1.00	0.00	C
ATOM	7614	C	LEU	800	41.848	66.059	32.430	1.00	0.00	C
ATOM	7615	O	LEU	800	42.305	67.162	32.706	1.00	0.00	O
ATOM	7616	N	GLU	801	40.715	65.581	32.974	1.00	0.00	N
ATOM	7617	HN	GLU	801	40.397	64.644	32.726	1.00	0.00	H
ATOM	7618	CA	GLU	801	39.947	66.362	33.894	1.00	0.00	C
ATOM	7619	CB	GLU	801	38.542	65.827	34.240	1.00	0.00	C

ATOM	7620	CG	GLU	801	38.489	64.627	35.179	1.00	0.00	C
ATOM	7621	CD	GLU	801	37.023	64.270	35.370	1.00	0.00	C
ATOM	7622	OE1	GLU	801	36.220	64.569	34.446	1.00	0.00	O
ATOM	7623	OE2	GLU	801	36.687	63.690	36.437	1.00	0.00	O
ATOM	7624	C	GLU	801	40.743	66.486	35.133	1.00	0.00	C
ATOM	7625	O	GLU	801	40.586	67.445	35.879	1.00	0.00	O
ATOM	7626	N	GLY	802	41.599	65.493	35.419	1.00	0.00	N
ATOM	7627	HN	GLY	802	41.687	64.672	34.820	1.00	0.00	H
ATOM	7628	CA	GLY	802	42.376	65.644	36.599	1.00	0.00	C
ATOM	7629	C	GLY	802	43.204	66.871	36.431	1.00	0.00	C
ATOM	7630	O	GLY	802	43.173	67.759	37.278	1.00	0.00	O
ATOM	7631	N	SER	803	43.925	66.963	35.299	1.00	0.00	N
ATOM	7632	HN	SER	803	43.850	66.215	34.609	1.00	0.00	H
ATOM	7633	CA	SER	803	44.793	68.068	35.023	1.00	0.00	C
ATOM	7634	CB	SER	803	45.610	67.860	33.738	1.00	0.00	C
ATOM	7635	OG	SER	803	46.438	66.714	33.870	1.00	0.00	O
ATOM	7636	HG	SER	803	46.943	66.585	33.076	1.00	0.00	H
ATOM	7637	C	SER	803	44.004	69.333	34.847	1.00	0.00	C
ATOM	7638	O	SER	803	44.151	70.271	35.622	1.00	0.00	O
ATOM	7639	N	GLY	804	43.099	69.362	33.850	1.00	0.00	N
ATOM	7640	HN	GLY	804	42.936	68.494	33.339	1.00	0.00	H
ATOM	7641	CA	GLY	804	42.345	70.516	33.448	1.00	0.00	C
ATOM	7642	C	GLY	804	41.512	70.994	34.563	1.00	0.00	C
ATOM	7643	O	GLY	804	41.317	72.199	34.699	1.00	0.00	O
ATOM	7644	N	LYS	805	40.962	70.074	35.368	1.00	0.00	N
ATOM	7645	HN	LYS	805	41.108	69.075	35.224	1.00	0.00	H
ATOM	7646	CA	LYS	805	40.164	70.571	36.433	1.00	0.00	C
ATOM	7647	CB	LYS	805	39.510	69.503	37.325	1.00	0.00	C
ATOM	7648	CG	LYS	805	38.329	68.792	36.660	1.00	0.00	C
ATOM	7649	CD	LYS	805	37.861	67.547	37.415	1.00	0.00	C
ATOM	7650	CE	LYS	805	36.881	67.851	38.550	1.00	0.00	C
ATOM	7651	NZ	LYS	805	36.484	66.595	39.223	1.00	0.00	N
ATOM	7652	HZ1	LYS	805	35.831	66.798	39.980	1.00	0.00	H
ATOM	7653	HZ2	LYS	805	37.291	66.062	39.547	1.00	0.00	H
ATOM	7654	HZ3	LYS	805	36.109	65.911	38.566	1.00	0.00	H
ATOM	7655	C	LYS	805	41.092	71.370	37.287	1.00	0.00	C
ATOM	7656	O	LYS	805	40.691	72.397	37.827	1.00	0.00	O
ATOM	7657	N	ILE	806	42.357	70.912	37.420	1.00	0.00	N
ATOM	7658	HN	ILE	806	42.616	70.039	36.960	1.00	0.00	H
ATOM	7659	CA	ILE	806	43.347	71.613	38.186	1.00	0.00	C
ATOM	7660	CB	ILE	806	44.691	70.958	38.327	1.00	0.00	C
ATOM	7661	CG1	ILE	806	44.625	69.508	38.777	1.00	0.00	C
ATOM	7662	CG2	ILE	806	45.431	71.769	39.396	1.00	0.00	C
ATOM	7663	CD1	ILE	806	45.974	68.806	38.627	1.00	0.00	C
ATOM	7664	C	ILE	806	43.688	72.905	37.525	1.00	0.00	C
ATOM	7665	O	ILE	806	43.904	73.921	38.177	1.00	0.00	O
ATOM	7666	N	ALA	807	43.814	72.900	36.195	1.00	0.00	N
ATOM	7667	HN	ALA	807	43.622	72.055	35.658	1.00	0.00	H
ATOM	7668	CA	ALA	807	44.224	74.104	35.539	1.00	0.00	C
ATOM	7669	CB	ALA	807	44.349	73.950	34.014	1.00	0.00	C
ATOM	7670	C	ALA	807	43.148	75.096	35.806	1.00	0.00	C
ATOM	7671	O	ALA	807	43.410	76.288	35.952	1.00	0.00	O
ATOM	7672	N	THR	808	41.892	74.611	35.820	1.00	0.00	N
ATOM	7673	HN	THR	808	41.745	73.621	35.622	1.00	0.00	H
ATOM	7674	CA	THR	808	40.756	75.433	36.102	1.00	0.00	C
ATOM	7675	CB	THR	808	39.446	74.747	35.859	1.00	0.00	C
ATOM	7676	OG1	THR	808	39.357	74.335	34.503	1.00	0.00	O
ATOM	7677	HG1	THR	808	38.527	73.900	34.349	1.00	0.00	H
ATOM	7678	CG2	THR	808	38.312	75.735	36.184	1.00	0.00	C
ATOM	7679	C	THR	808	40.815	75.805	37.526	1.00	0.00	C
ATOM	7680	O	THR	808	40.416	76.908	37.884	1.00	0.00	O
ATOM	7681	N	GLU	809	41.309	74.889	38.382	1.00	0.00	N
ATOM	7682	HN	GLU	809	41.658	73.985	38.063	1.00	0.00	H
ATOM	7683	CA	GLU	809	41.316	75.254	39.753	1.00	0.00	C
ATOM	7684	CB	GLU	809	41.797	74.174	40.756	1.00	0.00	C
ATOM	7685	CG	GLU	809	43.304	73.925	40.843	1.00	0.00	C
ATOM	7686	CD	GLU	809	43.553	72.906	41.951	1.00	0.00	C
ATOM	7687	OE1	GLU	809	42.590	72.589	42.701	1.00	0.00	O
ATOM	7688	OE2	GLU	809	44.715	72.431	42.062	1.00	0.00	O
ATOM	7689	C	GLU	809	42.178	76.458	39.876	1.00	0.00	C
ATOM	7690	O	GLU	809	41.771	77.416	40.521	1.00	0.00	O
ATOM	7691	N	ALA	810	43.357	76.469	39.224	1.00	0.00	N
ATOM	7692	HN	ALA	810	43.647	75.666	38.666	1.00	0.00	H
ATOM	7693	CA	ALA	810	44.199	77.625	39.325	1.00	0.00	C

ATOM	7694	CB	ALA	810	45.612	77.377	38.767	1.00	0.00	C
ATOM	7695	C	ALA	810	43.628	78.828	38.626	1.00	0.00	C
ATOM	7696	O	ALA	810	43.375	79.850	39.252	1.00	0.00	O
ATOM	7697	N	ILE	811	43.305	78.738	37.325	1.00	0.00	N
ATOM	7698	HN	ILE	811	43.349	77.844	36.836	1.00	0.00	H
ATOM	7699	CA	ILE	811	42.895	79.934	36.640	1.00	0.00	C
ATOM	7700	CB	ILE	811	42.674	79.740	35.174	1.00	0.00	C
ATOM	7701	CG1	ILE	811	41.515	78.767	34.939	1.00	0.00	C
ATOM	7702	CG2	ILE	811	44.007	79.299	34.544	1.00	0.00	C
ATOM	7703	CD1	ILE	811	40.996	78.823	33.511	1.00	0.00	C
ATOM	7704	C	ILE	811	41.607	80.423	37.236	1.00	0.00	C
ATOM	7705	O	ILE	811	41.417	81.624	37.416	1.00	0.00	O
ATOM	7706	N	GLU	812	40.681	79.497	37.553	1.00	0.00	N
ATOM	7707	HN	GLU	812	40.893	78.511	37.399	1.00	0.00	H
ATOM	7708	CA	GLU	812	39.405	79.857	38.101	1.00	0.00	C
ATOM	7709	CB	GLU	812	38.395	78.709	38.259	1.00	0.00	C
ATOM	7710	CG	GLU	812	37.024	79.195	38.738	1.00	0.00	C
ATOM	7711	CD	GLU	812	36.054	78.024	38.704	1.00	0.00	C
ATOM	7712	OE1	GLU	812	36.064	77.218	39.672	1.00	0.00	O
ATOM	7713	OE2	GLU	812	35.291	77.917	37.706	1.00	0.00	O
ATOM	7714	C	GLU	812	39.636	80.435	39.428	1.00	0.00	C
ATOM	7715	O	GLU	812	38.819	81.194	39.941	1.00	0.00	O
ATOM	7716	N	ASN	813	40.735	80.012	40.055	1.00	0.00	N
ATOM	7717	HN	ASN	813	41.346	79.318	39.625	1.00	0.00	H
ATOM	7718	CA	ASN	813	41.033	80.547	41.328	1.00	0.00	C
ATOM	7719	CB	ASN	813	41.360	79.470	42.375	1.00	0.00	C
ATOM	7720	CG	ASN	813	40.081	78.694	42.676	1.00	0.00	C
ATOM	7721	OD1	ASN	813	39.025	79.270	42.932	1.00	0.00	O
ATOM	7722	ND2	ASN	813	40.179	77.338	42.650	1.00	0.00	N
ATOM	7723	1HD2	ASN	813	41.055	76.860	42.438	1.00	0.00	H
ATOM	7724	2HD2	ASN	813	39.324	76.819	42.851	1.00	0.00	H
ATOM	7725	C	ASN	813	42.227	81.421	41.169	1.00	0.00	C
ATOM	7726	O	ASN	813	43.296	81.068	41.653	1.00	0.00	O
ATOM	7727	N	PHE	814	42.046	82.674	40.664	1.00	0.00	N
ATOM	7728	HN	PHE	814	41.094	82.942	40.416	1.00	0.00	H
ATOM	7729	CA	PHE	814	43.089	83.660	40.448	1.00	0.00	C
ATOM	7730	CB	PHE	814	42.649	84.974	39.757	1.00	0.00	C
ATOM	7731	CG	PHE	814	41.954	85.895	40.703	1.00	0.00	C
ATOM	7732	CD1	PHE	814	42.681	86.753	41.499	1.00	0.00	C
ATOM	7733	CD2	PHE	814	40.583	85.938	40.779	1.00	0.00	C
ATOM	7734	CE1	PHE	814	42.055	87.608	42.371	1.00	0.00	C
ATOM	7735	CE2	PHE	814	39.946	86.792	41.649	1.00	0.00	C
ATOM	7736	CZ	PHE	814	40.683	87.628	42.452	1.00	0.00	C
ATOM	7737	C	PHE	814	43.612	83.995	41.806	1.00	0.00	C
ATOM	7738	O	PHE	814	44.611	84.691	41.969	1.00	0.00	O
ATOM	7739	N	ARG	815	42.886	83.492	42.815	1.00	0.00	N
ATOM	7740	HN	ARG	815	42.042	82.998	42.527	1.00	0.00	H
ATOM	7741	CA	ARG	815	43.097	83.533	44.211	1.00	0.00	C
ATOM	7742	CB	ARG	815	42.190	82.648	45.093	1.00	0.00	C
ATOM	7743	CG	ARG	815	40.724	83.044	45.246	1.00	0.00	C
ATOM	7744	CD	ARG	815	39.784	82.408	44.227	1.00	0.00	C
ATOM	7745	NE	ARG	815	39.845	83.174	42.960	1.00	0.00	N
ATOM	7746	HE	ARG	815	40.598	83.838	42.782	1.00	0.00	H
ATOM	7747	CZ	ARG	815	38.863	82.963	42.040	1.00	0.00	C
ATOM	7748	NH1	ARG	815	37.888	82.039	42.289	1.00	0.00	N
ATOM	7749	1HH1	ARG	815	37.899	81.508	43.160	1.00	0.00	H
ATOM	7750	2HH1	ARG	815	37.153	81.881	41.600	1.00	0.00	H
ATOM	7751	NH2	ARG	815	38.848	83.673	40.877	1.00	0.00	N
ATOM	7752	1HH2	ARG	815	39.576	84.363	40.691	1.00	0.00	H
ATOM	7753	2HH2	ARG	815	38.113	83.515	40.188	1.00	0.00	H
ATOM	7754	C	ARG	815	44.461	82.995	44.526	1.00	0.00	C
ATOM	7755	O	ARG	815	44.776	82.801	45.693	1.00	0.00	O
ATOM	7756	N	THR	816	45.156	82.436	43.532	1.00	0.00	N
ATOM	7757	HN	THR	816	44.668	82.271	42.652	1.00	0.00	H
ATOM	7758	CA	THR	816	46.533	82.050	43.605	1.00	0.00	C
ATOM	7759	CB	THR	816	46.871	81.097	42.505	1.00	0.00	C
ATOM	7760	OG1	THR	816	48.257	80.797	42.529	1.00	0.00	O
ATOM	7761	HG1	THR	816	48.509	80.410	43.359	1.00	0.00	H
ATOM	7762	CG2	THR	816	46.463	81.724	41.161	1.00	0.00	C
ATOM	7763	C	THR	816	47.473	83.210	43.478	1.00	0.00	C
ATOM	7764	O	THR	816	48.341	83.392	44.325	1.00	0.00	O
ATOM	7765	N	VAL	817	47.272	84.095	42.466	1.00	0.00	N
ATOM	7766	HN	VAL	817	46.442	83.972	41.886	1.00	0.00	H
ATOM	7767	CA	VAL	817	48.150	85.196	42.156	1.00	0.00	C

ATOM	7768	CB	VAL	817	47.765	86.017	40.963	1.00	0.00	C
ATOM	7769	CG1	VAL	817	47.583	85.061	39.784	1.00	0.00	C
ATOM	7770	CG2	VAL	817	46.563	86.910	41.284	1.00	0.00	C
ATOM	7771	C	VAL	817	48.073	86.061	43.346	1.00	0.00	C
ATOM	7772	O	VAL	817	48.917	86.925	43.573	1.00	0.00	O
ATOM	7773	N	VAL	818	46.994	85.861	44.115	1.00	0.00	N
ATOM	7774	HN	VAL	818	46.284	85.182	43.841	1.00	0.00	H
ATOM	7775	CA	VAL	818	46.852	86.598	45.303	1.00	0.00	C
ATOM	7776	CB	VAL	818	45.632	86.286	46.126	1.00	0.00	C
ATOM	7777	CG1	VAL	818	45.829	84.987	46.913	1.00	0.00	C
ATOM	7778	CG2	VAL	818	45.369	87.502	47.025	1.00	0.00	C
ATOM	7779	C	VAL	818	48.081	86.379	46.128	1.00	0.00	C
ATOM	7780	O	VAL	818	48.576	87.334	46.713	1.00	0.00	O
ATOM	7781	N	SER	819	48.554	85.121	46.268	1.00	0.00	N
ATOM	7782	HN	SER	819	48.019	84.361	45.848	1.00	0.00	H
ATOM	7783	CA	SER	819	49.763	84.784	46.970	1.00	0.00	C
ATOM	7784	CB	SER	819	49.690	83.365	47.553	1.00	0.00	C
ATOM	7785	OG	SER	819	48.536	83.237	48.369	1.00	0.00	O
ATOM	7786	HG	SER	819	48.491	82.359	48.730	1.00	0.00	H
ATOM	7787	C	SER	819	50.946	84.793	46.035	1.00	0.00	C
ATOM	7788	O	SER	819	52.043	85.214	46.394	1.00	0.00	O
ATOM	7789	N	LEU	820	50.750	84.251	44.815	1.00	0.00	N
ATOM	7790	HN	LEU	820	49.819	83.888	44.612	1.00	0.00	H
ATOM	7791	CA	LEU	820	51.738	84.139	43.773	1.00	0.00	C
ATOM	7792	CB	LEU	820	52.294	85.542	43.420	1.00	0.00	C
ATOM	7793	CG	LEU	820	53.372	85.672	42.323	1.00	0.00	C
ATOM	7794	CD1	LEU	820	53.442	87.126	41.829	1.00	0.00	C
ATOM	7795	CD2	LEU	820	54.765	85.250	42.822	1.00	0.00	C
ATOM	7796	C	LEU	820	52.794	83.160	44.210	1.00	0.00	C
ATOM	7797	O	LEU	820	53.715	82.818	43.470	1.00	0.00	O
ATOM	7798	N	THR	821	52.586	82.583	45.402	1.00	0.00	N
ATOM	7799	HN	THR	821	51.720	82.820	45.886	1.00	0.00	H
ATOM	7800	CA	THR	821	53.466	81.665	46.059	1.00	0.00	C
ATOM	7801	CB	THR	821	53.121	81.453	47.510	1.00	0.00	C
ATOM	7802	OG1	THR	821	51.762	81.068	47.651	1.00	0.00	O
ATOM	7803	HG1	THR	821	51.588	80.266	47.173	1.00	0.00	H
ATOM	7804	CG2	THR	821	53.402	82.752	48.284	1.00	0.00	C
ATOM	7805	C	THR	821	53.592	80.311	45.368	1.00	0.00	C
ATOM	7806	O	THR	821	54.331	79.492	45.905	1.00	0.00	O
ATOM	7807	N	GLN	822	52.689	79.918	44.421	1.00	0.00	N
ATOM	7808	HN	GLN	822	51.893	80.539	44.275	1.00	0.00	H
ATOM	7809	CA	GLN	822	52.726	78.711	43.589	1.00	0.00	C
ATOM	7810	CB	GLN	822	51.351	78.031	43.573	1.00	0.00	C
ATOM	7811	CG	GLN	822	50.268	78.905	42.939	1.00	0.00	C
ATOM	7812	CD	GLN	822	48.953	78.144	42.989	1.00	0.00	C
ATOM	7813	OE1	GLN	822	48.188	78.140	42.025	1.00	0.00	O
ATOM	7814	NE2	GLN	822	48.668	77.498	44.151	1.00	0.00	N
ATOM	7815	1HE2	GLN	822	49.302	77.501	44.950	1.00	0.00	H
ATOM	7816	2HE2	GLN	822	47.786	76.987	44.185	1.00	0.00	H
ATOM	7817	C	GLN	822	53.192	78.790	42.137	1.00	0.00	C
ATOM	7818	O	GLN	822	53.757	77.832	41.607	1.00	0.00	O
ATOM	7819	N	GLU	823	52.871	79.901	41.433	1.00	0.00	N
ATOM	7820	HN	GLU	823	52.447	80.654	41.975	1.00	0.00	H
ATOM	7821	CA	GLU	823	53.043	80.177	40.016	1.00	0.00	C
ATOM	7822	CB	GLU	823	54.070	81.293	39.753	1.00	0.00	C
ATOM	7823	CG	GLU	823	53.752	82.621	40.457	1.00	0.00	C
ATOM	7824	CD	GLU	823	52.353	83.110	40.081	1.00	0.00	C
ATOM	7825	OE1	GLU	823	51.376	82.331	40.242	1.00	0.00	O
ATOM	7826	OE2	GLU	823	52.241	84.289	39.653	1.00	0.00	O
ATOM	7827	C	GLU	823	53.402	78.983	39.161	1.00	0.00	C
ATOM	7828	O	GLU	823	52.620	78.055	38.933	1.00	0.00	O
ATOM	7829	N	GLN	824	54.630	79.014	38.621	1.00	0.00	N
ATOM	7830	HN	GLN	824	55.259	79.786	38.844	1.00	0.00	H
ATOM	7831	CA	GLN	824	55.068	77.978	37.737	1.00	0.00	C
ATOM	7832	CB	GLN	824	56.527	78.157	37.286	1.00	0.00	C
ATOM	7833	CG	GLN	824	56.947	77.168	36.199	1.00	0.00	C
ATOM	7834	CD	GLN	824	56.229	77.566	34.918	1.00	0.00	C
ATOM	7835	OE1	GLN	824	56.456	78.645	34.372	1.00	0.00	O
ATOM	7836	NE2	GLN	824	55.329	76.674	34.425	1.00	0.00	N
ATOM	7837	1HE2	GLN	824	54.848	76.941	33.566	1.00	0.00	H
ATOM	7838	2HE2	GLN	824	55.141	75.780	34.878	1.00	0.00	H
ATOM	7839	C	GLN	824	54.972	76.687	38.466	1.00	0.00	C
ATOM	7840	O	GLN	824	54.582	75.681	37.872	1.00	0.00	O
ATOM	7841	N	LYS	825	55.264	76.712	39.784	1.00	0.00	N

ATOM	7842	HN	LYS	825	55.504	77.602	40.219	1.00	0.00	H
ATOM	7843	CA	LYS	825	55.247	75.526	40.592	1.00	0.00	C
ATOM	7844	CB	LYS	825	55.509	75.807	42.086	1.00	0.00	C
ATOM	7845	CG	LYS	825	55.475	74.593	43.013	1.00	0.00	C
ATOM	7846	CD	LYS	825	54.080	73.993	43.180	1.00	0.00	C
ATOM	7847	CE	LYS	825	54.004	72.947	44.293	1.00	0.00	C
ATOM	7848	NZ	LYS	825	52.592	72.684	44.646	1.00	0.00	N
ATOM	7849	HZ1	LYS	825	52.541	71.986	45.388	1.00	0.00	H
ATOM	7850	HZ2	LYS	825	52.038	72.417	43.832	1.00	0.00	H
ATOM	7851	HZ3	LYS	825	52.094	73.540	44.891	1.00	0.00	H
ATOM	7852	C	LYS	825	53.904	74.914	40.377	1.00	0.00	C
ATOM	7853	O	LYS	825	53.750	73.693	40.356	1.00	0.00	O
ATOM	7854	N	PHE	826	52.888	75.769	40.190	1.00	0.00	N
ATOM	7855	HN	PHE	826	53.059	76.775	40.197	1.00	0.00	H
ATOM	7856	CA	PHE	826	51.567	75.269	39.981	1.00	0.00	C
ATOM	7857	CB	PHE	826	50.563	76.416	40.157	1.00	0.00	C
ATOM	7858	CG	PHE	826	49.397	75.873	40.900	1.00	0.00	C
ATOM	7859	CD1	PHE	826	49.598	75.385	42.171	1.00	0.00	C
ATOM	7860	CD2	PHE	826	48.139	75.812	40.353	1.00	0.00	C
ATOM	7861	CE1	PHE	826	48.563	74.869	42.909	1.00	0.00	C
ATOM	7862	CE2	PHE	826	47.099	75.301	41.092	1.00	0.00	C
ATOM	7863	CZ	PHE	826	47.305	74.832	42.366	1.00	0.00	C
ATOM	7864	C	PHE	826	51.353	74.576	38.657	1.00	0.00	C
ATOM	7865	O	PHE	826	51.216	73.354	38.612	1.00	0.00	O
ATOM	7866	N	GLU	827	51.472	75.311	37.528	1.00	0.00	N
ATOM	7867	HN	GLU	827	51.779	76.281	37.605	1.00	0.00	H
ATOM	7868	CA	GLU	827	51.180	74.775	36.214	1.00	0.00	C
ATOM	7869	CB	GLU	827	51.411	75.796	35.083	1.00	0.00	C
ATOM	7870	CG	GLU	827	50.463	77.003	35.132	1.00	0.00	C
ATOM	7871	CD	GLU	827	49.078	76.569	34.668	1.00	0.00	C
ATOM	7872	OE1	GLU	827	48.932	75.381	34.282	1.00	0.00	O
ATOM	7873	OE2	GLU	827	48.148	77.420	34.694	1.00	0.00	O
ATOM	7874	C	GLU	827	52.120	73.639	36.035	1.00	0.00	C
ATOM	7875	O	GLU	827	51.871	72.713	35.261	1.00	0.00	O
ATOM	7876	N	HIS	828	53.248	73.719	36.761	1.00	0.00	N
ATOM	7877	HN	HIS	828	53.376	74.526	37.372	1.00	0.00	H
ATOM	7878	CA	HIS	828	54.276	72.729	36.719	1.00	0.00	C
ATOM	7879	ND1	HIS	828	56.570	70.867	38.263	1.00	0.00	N
ATOM	7880	HD1	HIS	828	55.849	70.531	38.902	1.00	0.00	H
ATOM	7881	CG	HIS	828	56.562	72.056	37.568	1.00	0.00	C
ATOM	7882	CB	HIS	828	55.455	73.065	37.645	1.00	0.00	C
ATOM	7883	NE2	HIS	828	58.452	70.923	37.080	1.00	0.00	N
ATOM	7884	HE2	HIS	828	59.355	70.668	36.680	1.00	0.00	H
ATOM	7885	CD2	HIS	828	57.718	72.073	36.850	1.00	0.00	C
ATOM	7886	CE1	HIS	828	57.721	70.229	37.935	1.00	0.00	C
ATOM	7887	C	HIS	828	53.731	71.411	37.160	1.00	0.00	C
ATOM	7888	O	HIS	828	53.979	70.391	36.517	1.00	0.00	O
ATOM	7889	N	MET	829	52.936	71.400	38.247	1.00	0.00	N
ATOM	7890	HN	MET	829	52.704	72.272	38.723	1.00	0.00	H
ATOM	7891	CA	MET	829	52.417	70.153	38.731	1.00	0.00	C
ATOM	7892	CB	MET	829	51.476	70.309	39.936	1.00	0.00	C
ATOM	7893	CG	MET	829	52.183	70.774	41.208	1.00	0.00	C
ATOM	7894	SD	MET	829	51.090	70.950	42.651	1.00	0.00	S
ATOM	7895	CE	MET	829	50.335	72.511	42.116	1.00	0.00	C
ATOM	7896	C	MET	829	51.610	69.574	37.611	1.00	0.00	C
ATOM	7897	O	MET	829	51.581	68.363	37.392	1.00	0.00	O
ATOM	7898	N	TYR	830	50.937	70.450	36.854	1.00	0.00	N
ATOM	7899	HN	TYR	830	51.009	71.446	37.064	1.00	0.00	H
ATOM	7900	CA	TYR	830	50.115	70.025	35.753	1.00	0.00	C
ATOM	7901	CB	TYR	830	49.415	71.153	34.996	1.00	0.00	C
ATOM	7902	CG	TYR	830	48.589	71.928	35.939	1.00	0.00	C
ATOM	7903	CD1	TYR	830	49.218	72.691	36.879	1.00	0.00	C
ATOM	7904	CD2	TYR	830	47.223	71.928	35.883	1.00	0.00	C
ATOM	7905	CE1	TYR	830	48.533	73.459	37.779	1.00	0.00	C
ATOM	7906	CE2	TYR	830	46.534	72.697	36.783	1.00	0.00	C
ATOM	7907	CZ	TYR	830	47.169	73.462	37.722	1.00	0.00	C
ATOM	7908	OH	TYR	830	46.421	74.243	38.622	1.00	0.00	O
ATOM	7909	HH	TYR	830	45.472	74.245	38.582	1.00	0.00	H
ATOM	7910	C	TYR	830	50.972	69.422	34.702	1.00	0.00	C
ATOM	7911	O	TYR	830	50.523	68.539	33.974	1.00	0.00	O
ATOM	7912	N	ALA	831	52.208	69.931	34.546	1.00	0.00	N
ATOM	7913	HN	ALA	831	52.557	70.651	35.178	1.00	0.00	H
ATOM	7914	CA	ALA	831	53.026	69.442	33.474	1.00	0.00	C
ATOM	7915	CB	ALA	831	54.437	70.053	33.466	1.00	0.00	C

ATOM	7916	C	ALA	831	53.175	67.969	33.661	1.00	0.00	C
ATOM	7917	O	ALA	831	53.151	67.203	32.697	1.00	0.00	O
ATOM	7918	N	GLN	832	53.328	67.537	34.922	1.00	0.00	N
ATOM	7919	HN	GLN	832	53.328	68.205	35.693	1.00	0.00	H
ATOM	7920	CA	GLN	832	53.491	66.139	35.187	1.00	0.00	C
ATOM	7921	CB	GLN	832	53.783	65.858	36.668	1.00	0.00	C
ATOM	7922	CG	GLN	832	55.054	66.540	37.168	1.00	0.00	C
ATOM	7923	CD	GLN	832	56.209	66.017	36.331	1.00	0.00	C
ATOM	7924	OE1	GLN	832	56.347	66.359	35.157	1.00	0.00	O
ATOM	7925	NE2	GLN	832	57.062	65.158	36.950	1.00	0.00	N
ATOM	7926	1HE2	GLN	832	56.948	64.875	37.923	1.00	0.00	H
ATOM	7927	2HE2	GLN	832	57.837	64.807	36.388	1.00	0.00	H
ATOM	7928	C	GLN	832	52.238	65.395	34.856	1.00	0.00	C
ATOM	7929	O	GLN	832	52.268	64.346	34.214	1.00	0.00	O
ATOM	7930	N	SER	833	51.087	65.948	35.262	1.00	0.00	N
ATOM	7931	HN	SER	833	51.100	66.871	35.697	1.00	0.00	H
ATOM	7932	CA	SER	833	49.838	65.266	35.096	1.00	0.00	C
ATOM	7933	CB	SER	833	48.657	66.166	35.478	1.00	0.00	C
ATOM	7934	OG	SER	833	48.921	66.782	36.728	1.00	0.00	O
ATOM	7935	HG	SER	833	48.189	67.340	36.965	1.00	0.00	H
ATOM	7936	C	SER	833	49.673	64.967	33.652	1.00	0.00	C
ATOM	7937	O	SER	833	49.486	63.818	33.267	1.00	0.00	O
ATOM	7938	N	LEU	834	49.852	65.987	32.802	1.00	0.00	N
ATOM	7939	HN	LEU	834	50.162	66.892	33.155	1.00	0.00	H
ATOM	7940	CA	LEU	834	49.611	65.814	31.403	1.00	0.00	C
ATOM	7941	CB	LEU	834	49.921	67.066	30.555	1.00	0.00	C
ATOM	7942	CG	LEU	834	48.862	68.190	30.592	1.00	0.00	C
ATOM	7943	CD1	LEU	834	47.569	67.750	29.889	1.00	0.00	C
ATOM	7944	CD2	LEU	834	48.615	68.719	32.012	1.00	0.00	C
ATOM	7945	C	LEU	834	50.461	64.718	30.868	1.00	0.00	C
ATOM	7946	O	LEU	834	49.958	63.901	30.097	1.00	0.00	O
ATOM	7947	N	GLN	835	51.730	64.624	31.318	1.00	0.00	N
ATOM	7948	HN	GLN	835	52.038	65.196	32.104	1.00	0.00	H
ATOM	7949	CA	GLN	835	52.645	63.714	30.684	1.00	0.00	C
ATOM	7950	CB	GLN	835	54.026	63.633	31.358	1.00	0.00	C
ATOM	7951	CG	GLN	835	54.033	62.916	32.707	1.00	0.00	C
ATOM	7952	CD	GLN	835	55.401	63.110	33.343	1.00	0.00	C
ATOM	7953	OE1	GLN	835	56.310	63.670	32.732	1.00	0.00	O
ATOM	7954	NE2	GLN	835	55.554	62.642	34.611	1.00	0.00	N
ATOM	7955	1HE2	GLN	835	56.471	62.772	35.037	1.00	0.00	H
ATOM	7956	2HE2	GLN	835	54.800	62.178	35.118	1.00	0.00	H
ATOM	7957	C	GLN	835	52.081	62.323	30.687	1.00	0.00	C
ATOM	7958	O	GLN	835	52.116	61.647	29.659	1.00	0.00	O
ATOM	7959	N	VAL	836	51.507	61.862	31.815	1.00	0.00	N
ATOM	7960	HN	VAL	836	51.435	62.447	32.647	1.00	0.00	H
ATOM	7961	CA	VAL	836	50.999	60.516	31.805	1.00	0.00	C
ATOM	7962	CB	VAL	836	50.590	60.021	33.167	1.00	0.00	C
ATOM	7963	CG1	VAL	836	50.019	58.600	33.028	1.00	0.00	C
ATOM	7964	CG2	VAL	836	51.804	60.113	34.106	1.00	0.00	C
ATOM	7965	C	VAL	836	49.844	60.374	30.843	1.00	0.00	C
ATOM	7966	O	VAL	836	49.869	59.479	29.998	1.00	0.00	O
ATOM	7967	N	PRO	837	48.840	61.212	30.872	1.00	0.00	N
ATOM	7968	CA	PRO	837	47.804	61.002	29.904	1.00	0.00	C
ATOM	7969	CD	PRO	837	48.239	61.595	32.139	1.00	0.00	C
ATOM	7970	CB	PRO	837	46.629	61.866	30.342	1.00	0.00	C
ATOM	7971	CG	PRO	837	46.739	61.809	31.873	1.00	0.00	C
ATOM	7972	C	PRO	837	48.270	61.204	28.504	1.00	0.00	C
ATOM	7973	O	PRO	837	47.529	60.857	27.586	1.00	0.00	O
ATOM	7974	N	TYR	838	49.453	61.811	28.311	1.00	0.00	N
ATOM	7975	HN	TYR	838	49.999	62.121	29.115	1.00	0.00	H
ATOM	7976	CA	TYR	838	49.955	62.027	26.984	1.00	0.00	C
ATOM	7977	CB	TYR	838	51.168	62.984	27.011	1.00	0.00	C
ATOM	7978	CG	TYR	838	51.569	63.367	25.627	1.00	0.00	C
ATOM	7979	CD1	TYR	838	50.827	64.284	24.917	1.00	0.00	C
ATOM	7980	CD2	TYR	838	52.675	62.810	25.030	1.00	0.00	C
ATOM	7981	CE1	TYR	838	51.186	64.646	23.639	1.00	0.00	C
ATOM	7982	CE2	TYR	838	53.039	63.170	23.753	1.00	0.00	C
ATOM	7983	CZ	TYR	838	52.296	64.090	23.054	1.00	0.00	C
ATOM	7984	OH	TYR	838	52.670	64.458	21.743	1.00	0.00	O
ATOM	7985	HH	TYR	838	53.438	64.073	21.338	1.00	0.00	H
ATOM	7986	C	TYR	838	50.332	60.712	26.362	1.00	0.00	C
ATOM	7987	O	TYR	838	49.921	60.403	25.244	1.00	0.00	O
ATOM	7988	N	ARG	839	51.095	59.868	27.086	1.00	0.00	N
ATOM	7989	HN	ARG	839	51.383	60.105	28.035	1.00	0.00	H

ATOM	7990	CA	ARG	839	51.491	58.624	26.483	1.00	0.00	C
ATOM	7991	CB	ARG	839	52.462	57.795	27.342	1.00	0.00	C
ATOM	7992	CG	ARG	839	53.909	58.289	27.261	1.00	0.00	C
ATOM	7993	CD	ARG	839	54.146	59.659	27.895	1.00	0.00	C
ATOM	7994	NE	ARG	839	54.156	59.464	29.371	1.00	0.00	N
ATOM	7995	HE	ARG	839	53.555	58.759	29.797	1.00	0.00	H
ATOM	7996	CZ	ARG	839	54.970	60.230	30.153	1.00	0.00	C
ATOM	7997	NH1	ARG	839	55.772	61.176	29.585	1.00	0.00	N
ATOM	7998	1HH1	ARG	839	56.381	61.749	30.170	1.00	0.00	H
ATOM	7999	2HH1	ARG	839	55.760	61.314	28.574	1.00	0.00	H
ATOM	8000	NH2	ARG	839	54.986	60.046	31.505	1.00	0.00	N
ATOM	8001	1HH2	ARG	839	55.595	60.619	32.090	1.00	0.00	H
ATOM	8002	2HH2	ARG	839	54.386	59.339	31.930	1.00	0.00	H
ATOM	8003	C	ARG	839	50.265	57.810	26.231	1.00	0.00	C
ATOM	8004	O	ARG	839	50.102	57.199	25.174	1.00	0.00	O
ATOM	8005	N	ASN	840	49.341	57.834	27.200	1.00	0.00	N
ATOM	8006	HN	ASN	840	49.510	58.410	28.025	1.00	0.00	H
ATOM	8007	CA	ASN	840	48.125	57.082	27.123	1.00	0.00	C
ATOM	8008	CB	ASN	840	47.220	57.363	28.335	1.00	0.00	C
ATOM	8009	CG	ASN	840	45.848	56.758	28.085	1.00	0.00	C
ATOM	8010	OD1	ASN	840	44.972	57.405	27.513	1.00	0.00	O
ATOM	8011	ND2	ASN	840	45.654	55.486	28.519	1.00	0.00	N
ATOM	8012	1HD2	ASN	840	44.733	55.080	28.351	1.00	0.00	H
ATOM	8013	2HD2	ASN	840	46.380	54.950	28.993	1.00	0.00	H
ATOM	8014	C	ASN	840	47.373	57.491	25.895	1.00	0.00	C
ATOM	8015	O	ASN	840	46.735	56.658	25.249	1.00	0.00	O
ATOM	8016	N	SER	841	47.424	58.788	25.539	1.00	0.00	N
ATOM	8017	HN	SER	841	48.012	59.436	26.063	1.00	0.00	H
ATOM	8018	CA	SER	841	46.652	59.262	24.422	1.00	0.00	C
ATOM	8019	CB	SER	841	46.722	60.787	24.213	1.00	0.00	C
ATOM	8020	OG	SER	841	47.996	61.167	23.716	1.00	0.00	O
ATOM	8021	HG	SER	841	48.039	62.107	23.587	1.00	0.00	H
ATOM	8022	C	SER	841	47.101	58.612	23.156	1.00	0.00	C
ATOM	8023	O	SER	841	46.276	58.241	22.325	1.00	0.00	O
ATOM	8024	N	LEU	842	48.419	58.421	22.981	1.00	0.00	N
ATOM	8025	HN	LEU	842	49.080	58.661	23.720	1.00	0.00	H
ATOM	8026	CA	LEU	842	48.881	57.874	21.740	1.00	0.00	C
ATOM	8027	CB	LEU	842	50.409	57.702	21.701	1.00	0.00	C
ATOM	8028	CG	LEU	842	51.178	59.031	21.818	1.00	0.00	C
ATOM	8029	CD1	LEU	842	52.697	58.805	21.765	1.00	0.00	C
ATOM	8030	CD2	LEU	842	50.692	60.052	20.777	1.00	0.00	C
ATOM	8031	C	LEU	842	48.269	56.522	21.543	1.00	0.00	C
ATOM	8032	O	LEU	842	47.810	56.196	20.448	1.00	0.00	O
ATOM	8033	N	ARG	843	48.227	55.696	22.604	1.00	0.00	N
ATOM	8034	HN	ARG	843	48.558	56.013	23.515	1.00	0.00	H
ATOM	8035	CA	ARG	843	47.713	54.365	22.444	1.00	0.00	C
ATOM	8036	CB	ARG	843	47.777	53.552	23.749	1.00	0.00	C
ATOM	8037	CG	ARG	843	47.344	52.096	23.576	1.00	0.00	C
ATOM	8038	CD	ARG	843	48.335	51.265	22.757	1.00	0.00	C
ATOM	8039	NE	ARG	843	49.441	50.857	23.668	1.00	0.00	N
ATOM	8040	HE	ARG	843	49.355	51.008	24.673	1.00	0.00	H
ATOM	8041	CZ	ARG	843	50.570	50.281	23.160	1.00	0.00	C
ATOM	8042	NH1	ARG	843	50.701	50.105	21.812	1.00	0.00	N
ATOM	8043	1HH1	ARG	843	49.956	50.409	21.185	1.00	0.00	H
ATOM	8044	2HH1	ARG	843	51.544	49.675	21.433	1.00	0.00	H
ATOM	8045	NH2	ARG	843	51.567	49.875	23.998	1.00	0.00	N
ATOM	8046	1HH2	ARG	843	51.469	50.006	25.005	1.00	0.00	H
ATOM	8047	2HH2	ARG	843	52.410	49.445	23.619	1.00	0.00	H
ATOM	8048	C	ARG	843	46.278	54.424	22.019	1.00	0.00	C
ATOM	8049	O	ARG	843	45.887	53.820	21.021	1.00	0.00	O
ATOM	8050	N	LYS	844	45.466	55.228	22.725	1.00	0.00	N
ATOM	8051	HN	LYS	844	45.861	55.803	23.469	1.00	0.00	H
ATOM	8052	CA	LYS	844	44.057	55.299	22.460	1.00	0.00	C
ATOM	8053	CB	LYS	844	43.313	56.247	23.414	1.00	0.00	C
ATOM	8054	CG	LYS	844	43.802	57.694	23.383	1.00	0.00	C
ATOM	8055	CD	LYS	844	42.868	58.653	24.123	1.00	0.00	C
ATOM	8056	CE	LYS	844	43.431	60.066	24.271	1.00	0.00	C
ATOM	8057	NZ	LYS	844	43.421	60.751	22.961	1.00	0.00	N
ATOM	8058	HZ1	LYS	844	43.797	61.694	23.060	1.00	0.00	H
ATOM	8059	HZ2	LYS	844	42.494	60.751	22.536	1.00	0.00	H
ATOM	8060	HZ3	LYS	844	43.913	60.216	22.245	1.00	0.00	H
ATOM	8061	C	LYS	844	43.863	55.771	21.063	1.00	0.00	C
ATOM	8062	O	LYS	844	42.827	55.499	20.461	1.00	0.00	O
ATOM	8063	N	ALA	845	44.833	56.524	20.516	1.00	0.00	N

ATOM	8064	HN	ALA	845	45.657	56.785	21.057	1.00	0.00	H
ATOM	8065	CA	ALA	845	44.684	56.952	19.156	1.00	0.00	C
ATOM	8066	CB	ALA	845	45.953	57.642	18.638	1.00	0.00	C
ATOM	8067	C	ALA	845	44.548	55.699	18.355	1.00	0.00	C
ATOM	8068	O	ALA	845	43.584	55.511	17.614	1.00	0.00	O
ATOM	8069	N	HIS	846	45.457	54.747	18.606	1.00	0.00	N
ATOM	8070	HN	HIS	846	46.160	54.911	19.326	1.00	0.00	H
ATOM	8071	CA	HIS	846	45.469	53.507	17.893	1.00	0.00	C
ATOM	8072	ND1	HIS	846	45.348	50.253	18.534	1.00	0.00	N
ATOM	8073	HD1	HIS	846	44.673	50.472	19.266	1.00	0.00	H
ATOM	8074	CG	HIS	846	46.302	51.102	18.017	1.00	0.00	C
ATOM	8075	CB	HIS	846	46.485	52.516	18.491	1.00	0.00	C
ATOM	8076	NE2	HIS	846	46.447	49.099	16.986	1.00	0.00	N
ATOM	8077	HE2	HIS	846	46.747	48.345	16.367	1.00	0.00	H
ATOM	8078	CD2	HIS	846	46.964	50.380	17.073	1.00	0.00	C
ATOM	8079	CE1	HIS	846	45.479	49.071	17.883	1.00	0.00	C
ATOM	8080	C	HIS	846	44.133	52.855	18.028	1.00	0.00	C
ATOM	8081	O	HIS	846	43.557	52.404	17.039	1.00	0.00	O
ATOM	8082	N	ILE	847	43.575	52.823	19.250	1.00	0.00	N
ATOM	8083	HN	ILE	847	44.011	53.317	20.028	1.00	0.00	H
ATOM	8084	CA	ILE	847	42.359	52.087	19.450	1.00	0.00	C
ATOM	8085	CB	ILE	847	41.919	52.030	20.894	1.00	0.00	C
ATOM	8086	CG1	ILE	847	40.952	50.856	21.131	1.00	0.00	C
ATOM	8087	CG2	ILE	847	41.303	53.381	21.282	1.00	0.00	C
ATOM	8088	CD1	ILE	847	39.609	50.998	20.419	1.00	0.00	C
ATOM	8089	C	ILE	847	41.249	52.652	18.611	1.00	0.00	C
ATOM	8090	O	ILE	847	40.504	51.897	17.987	1.00	0.00	O
ATOM	8091	N	PHE	848	41.123	53.992	18.529	1.00	0.00	N
ATOM	8092	HN	PHE	848	41.799	54.598	18.993	1.00	0.00	H
ATOM	8093	CA	PHE	848	40.034	54.565	17.786	1.00	0.00	C
ATOM	8094	CB	PHE	848	40.010	56.108	17.773	1.00	0.00	C
ATOM	8095	CG	PHE	848	39.611	56.579	19.131	1.00	0.00	C
ATOM	8096	CD1	PHE	848	38.285	56.620	19.496	1.00	0.00	C
ATOM	8097	CD2	PHE	848	40.556	56.968	20.049	1.00	0.00	C
ATOM	8098	CE1	PHE	848	37.914	57.048	20.749	1.00	0.00	C
ATOM	8099	CE2	PHE	848	40.195	57.397	21.303	1.00	0.00	C
ATOM	8100	CZ	PHE	848	38.869	57.439	21.656	1.00	0.00	C
ATOM	8101	C	PHE	848	40.144	54.093	16.385	1.00	0.00	C
ATOM	8102	O	PHE	848	39.140	53.790	15.742	1.00	0.00	O
ATOM	8103	N	GLY	849	41.377	54.023	15.865	1.00	0.00	N
ATOM	8104	HN	GLY	849	42.202	54.254	16.419	1.00	0.00	H
ATOM	8105	CA	GLY	849	41.487	53.612	14.503	1.00	0.00	C
ATOM	8106	C	GLY	849	40.966	52.218	14.324	1.00	0.00	C
ATOM	8107	O	GLY	849	40.071	51.998	13.511	1.00	0.00	O
ATOM	8108	N	ILE	850	41.433	51.254	15.139	1.00	0.00	N
ATOM	8109	HN	ILE	850	42.031	51.499	15.928	1.00	0.00	H
ATOM	8110	CA	ILE	850	41.089	49.879	14.897	1.00	0.00	C
ATOM	8111	CB	ILE	850	41.709	48.941	15.891	1.00	0.00	C
ATOM	8112	CG1	ILE	850	41.466	47.485	15.467	1.00	0.00	C
ATOM	8113	CG2	ILE	850	41.194	49.300	17.294	1.00	0.00	C
ATOM	8114	CD1	ILE	850	42.330	46.480	16.226	1.00	0.00	C
ATOM	8115	C	ILE	850	39.606	49.720	14.941	1.00	0.00	C
ATOM	8116	O	ILE	850	39.023	49.073	14.072	1.00	0.00	O
ATOM	8117	N	THR	851	38.944	50.338	15.929	1.00	0.00	N
ATOM	8118	HN	THR	851	39.439	50.919	16.606	1.00	0.00	H
ATOM	8119	CA	THR	851	37.525	50.162	16.011	1.00	0.00	C
ATOM	8120	CB	THR	851	36.924	50.883	17.179	1.00	0.00	C
ATOM	8121	OG1	THR	851	37.208	52.272	17.094	1.00	0.00	O
ATOM	8122	HG1	THR	851	36.849	52.634	16.292	1.00	0.00	H
ATOM	8123	CG2	THR	851	37.505	50.297	18.476	1.00	0.00	C
ATOM	8124	C	THR	851	36.861	50.673	14.768	1.00	0.00	C
ATOM	8125	O	THR	851	36.164	49.927	14.085	1.00	0.00	O
ATOM	8126	N	PHE	852	37.143	51.930	14.382	1.00	0.00	N
ATOM	8127	HN	PHE	852	37.851	52.459	14.891	1.00	0.00	H
ATOM	8128	CA	PHE	852	36.470	52.549	13.268	1.00	0.00	C
ATOM	8129	CB	PHE	852	37.019	53.965	12.999	1.00	0.00	C
ATOM	8130	CG	PHE	852	36.596	54.471	11.660	1.00	0.00	C
ATOM	8131	CD1	PHE	852	35.275	54.719	11.366	1.00	0.00	C
ATOM	8132	CD2	PHE	852	37.540	54.670	10.677	1.00	0.00	C
ATOM	8133	CE1	PHE	852	34.911	55.185	10.123	1.00	0.00	C
ATOM	8134	CE2	PHE	852	37.183	55.137	9.434	1.00	0.00	C
ATOM	8135	CZ	PHE	852	35.864	55.399	9.154	1.00	0.00	C
ATOM	8136	C	PHE	852	36.619	51.694	12.051	1.00	0.00	C
ATOM	8137	O	PHE	852	35.636	51.412	11.363	1.00	0.00	O

ATOM	8138	N	SER	853	37.844	51.209	11.793	1.00	0.00	N
ATOM	8139	HN	SER	853	38.611	51.408	12.435	1.00	0.00	H
ATOM	8140	CA	SER	853	38.084	50.415	10.626	1.00	0.00	C
ATOM	8141	CB	SER	853	39.535	49.917	10.545	1.00	0.00	C
ATOM	8142	OG	SER	853	39.797	49.018	11.612	1.00	0.00	O
ATOM	8143	HG	SER	853	40.694	48.710	11.562	1.00	0.00	H
ATOM	8144	C	SER	853	37.204	49.206	10.658	1.00	0.00	C
ATOM	8145	O	SER	853	36.501	48.926	9.691	1.00	0.00	O
ATOM	8146	N	PHE	854	37.138	48.517	11.809	1.00	0.00	N
ATOM	8147	HN	PHE	854	37.630	48.881	12.625	1.00	0.00	H
ATOM	8148	CA	PHE	854	36.403	47.287	11.940	1.00	0.00	C
ATOM	8149	CB	PHE	854	36.355	46.776	13.393	1.00	0.00	C
ATOM	8150	CG	PHE	854	35.501	45.553	13.436	1.00	0.00	C
ATOM	8151	CD1	PHE	854	34.138	45.663	13.601	1.00	0.00	C
ATOM	8152	CD2	PHE	854	36.056	44.300	13.313	1.00	0.00	C
ATOM	8153	CE1	PHE	854	33.341	44.543	13.643	1.00	0.00	C
ATOM	8154	CE2	PHE	854	35.264	43.176	13.353	1.00	0.00	C
ATOM	8155	CZ	PHE	854	33.905	43.296	13.518	1.00	0.00	C
ATOM	8156	C	PHE	854	35.002	47.553	11.503	1.00	0.00	C
ATOM	8157	O	PHE	854	34.334	46.678	10.956	1.00	0.00	O
ATOM	8158	N	THR	855	34.511	48.774	11.757	1.00	0.00	N
ATOM	8159	HN	THR	855	35.088	49.467	12.234	1.00	0.00	H
ATOM	8160	CA	THR	855	33.176	49.104	11.358	1.00	0.00	C
ATOM	8161	CB	THR	855	32.789	50.493	11.768	1.00	0.00	C
ATOM	8162	OG1	THR	855	32.924	50.641	13.173	1.00	0.00	O
ATOM	8163	HG1	THR	855	32.679	51.521	13.433	1.00	0.00	H
ATOM	8164	CG2	THR	855	31.328	50.740	11.354	1.00	0.00	C
ATOM	8165	C	THR	855	33.062	49.025	9.863	1.00	0.00	C
ATOM	8166	O	THR	855	32.114	48.448	9.334	1.00	0.00	O
ATOM	8167	N	GLN	856	34.035	49.607	9.141	1.00	0.00	N
ATOM	8168	HN	GLN	856	34.815	50.038	9.637	1.00	0.00	H
ATOM	8169	CA	GLN	856	34.030	49.652	7.704	1.00	0.00	C
ATOM	8170	CB	GLN	856	35.119	50.581	7.157	1.00	0.00	C
ATOM	8171	CG	GLN	856	35.036	51.986	7.759	1.00	0.00	C
ATOM	8172	CD	GLN	856	33.569	52.386	7.850	1.00	0.00	C
ATOM	8173	OE1	GLN	856	32.832	51.902	8.709	1.00	0.00	O
ATOM	8174	NE2	GLN	856	33.128	53.302	6.948	1.00	0.00	N
ATOM	8175	1HE2	GLN	856	33.739	53.703	6.236	1.00	0.00	H
ATOM	8176	2HE2	GLN	856	32.146	53.570	7.009	1.00	0.00	H
ATOM	8177	C	GLN	856	34.237	48.280	7.144	1.00	0.00	C
ATOM	8178	O	GLN	856	33.734	47.950	6.072	1.00	0.00	O
ATOM	8179	N	ALA	857	35.025	47.445	7.840	1.00	0.00	N
ATOM	8180	HN	ALA	857	35.472	47.763	8.700	1.00	0.00	H
ATOM	8181	CA	ALA	857	35.238	46.110	7.375	1.00	0.00	C
ATOM	8182	CB	ALA	857	36.145	45.285	8.305	1.00	0.00	C
ATOM	8183	C	ALA	857	33.890	45.482	7.359	1.00	0.00	C
ATOM	8184	O	ALA	857	33.554	44.727	6.450	1.00	0.00	O
ATOM	8185	N	MET	858	33.055	45.826	8.352	1.00	0.00	N
ATOM	8186	HN	MET	858	33.362	46.479	9.073	1.00	0.00	H
ATOM	8187	CA	MET	858	31.737	45.278	8.398	1.00	0.00	C
ATOM	8188	CB	MET	858	30.872	45.834	9.539	1.00	0.00	C
ATOM	8189	CG	MET	858	31.296	45.331	10.916	1.00	0.00	C
ATOM	8190	SD	MET	858	31.002	43.557	11.170	1.00	0.00	S
ATOM	8191	CE	MET	858	29.208	43.738	11.381	1.00	0.00	C
ATOM	8192	C	MET	858	31.084	45.683	7.122	1.00	0.00	C
ATOM	8193	O	MET	858	30.304	44.925	6.552	1.00	0.00	O
ATOM	8194	N	MET	859	31.416	46.884	6.619	1.00	0.00	N
ATOM	8195	HN	MET	859	32.114	47.461	7.088	1.00	0.00	H
ATOM	8196	CA	MET	859	30.784	47.350	5.419	1.00	0.00	C
ATOM	8197	CB	MET	859	31.375	48.664	4.888	1.00	0.00	C
ATOM	8198	CG	MET	859	30.896	48.997	3.476	1.00	0.00	C
ATOM	8199	SD	MET	859	31.748	50.403	2.702	1.00	0.00	S
ATOM	8200	CE	MET	859	33.334	49.571	2.410	1.00	0.00	C
ATOM	8201	C	MET	859	30.953	46.361	4.307	1.00	0.00	C
ATOM	8202	O	MET	859	29.958	45.896	3.753	1.00	0.00	O
ATOM	8203	N	TYR	860	32.199	45.975	3.970	1.00	0.00	N
ATOM	8204	HN	TYR	860	33.007	46.300	4.500	1.00	0.00	H
ATOM	8205	CA	TYR	860	32.362	45.097	2.848	1.00	0.00	C
ATOM	8206	CB	TYR	860	33.806	44.950	2.334	1.00	0.00	C
ATOM	8207	CG	TYR	860	34.622	44.042	3.188	1.00	0.00	C
ATOM	8208	CD1	TYR	860	35.261	44.487	4.322	1.00	0.00	C
ATOM	8209	CD2	TYR	860	34.759	42.724	2.820	1.00	0.00	C
ATOM	8210	CE1	TYR	860	36.023	43.625	5.077	1.00	0.00	C
ATOM	8211	CE2	TYR	860	35.516	41.857	3.568	1.00	0.00	C

ATOM	8212	CZ	TYR	860	36.151	42.309	4.698	1.00	0.00	C
ATOM	8213	OH	TYR	860	36.933	41.420	5.464	1.00	0.00	O
ATOM	8214	HH	TYR	860	37.372	41.733	6.246	1.00	0.00	H
ATOM	8215	C	TYR	860	31.831	43.747	3.185	1.00	0.00	C
ATOM	8216	O	TYR	860	31.166	43.130	2.355	1.00	0.00	O
ATOM	8217	N	PHE	861	32.083	43.272	4.425	1.00	0.00	N
ATOM	8218	HN	PHE	861	32.587	43.854	5.095	1.00	0.00	H
ATOM	8219	CA	PHE	861	31.650	41.957	4.812	1.00	0.00	C
ATOM	8220	CB	PHE	861	31.736	41.650	6.323	1.00	0.00	C
ATOM	8221	CG	PHE	861	33.090	41.235	6.789	1.00	0.00	C
ATOM	8222	CD1	PHE	861	33.434	39.902	6.778	1.00	0.00	C
ATOM	8223	CD2	PHE	861	34.003	42.149	7.259	1.00	0.00	C
ATOM	8224	CE1	PHE	861	34.672	39.493	7.215	1.00	0.00	C
ATOM	8225	CE2	PHE	861	35.243	41.746	7.698	1.00	0.00	C
ATOM	8226	CZ	PHE	861	35.581	40.414	7.676	1.00	0.00	C
ATOM	8227	C	PHE	861	30.189	41.871	4.559	1.00	0.00	C
ATOM	8228	O	PHE	861	29.727	40.949	3.889	1.00	0.00	O
ATOM	8229	N	SER	862	29.433	42.867	5.054	1.00	0.00	N
ATOM	8230	HN	SER	862	29.868	43.667	5.513	1.00	0.00	H
ATOM	8231	CA	SER	862	28.016	42.789	4.929	1.00	0.00	C
ATOM	8232	CB	SER	862	27.261	43.959	5.596	1.00	0.00	C
ATOM	8233	OG	SER	862	27.587	45.202	4.995	1.00	0.00	O
ATOM	8234	HG	SER	862	27.122	45.922	5.405	1.00	0.00	H
ATOM	8235	C	SER	862	27.635	42.704	3.484	1.00	0.00	C
ATOM	8236	O	SER	862	27.022	41.726	3.069	1.00	0.00	O
ATOM	8237	N	TYR	863	28.055	43.670	2.649	1.00	0.00	N
ATOM	8238	HN	TYR	863	28.705	44.388	2.969	1.00	0.00	H
ATOM	8239	CA	TYR	863	27.569	43.671	1.297	1.00	0.00	C
ATOM	8240	CB	TYR	863	28.117	44.830	0.446	1.00	0.00	C
ATOM	8241	CG	TYR	863	27.504	46.101	0.923	1.00	0.00	C
ATOM	8242	CD1	TYR	863	28.092	46.842	1.922	1.00	0.00	C
ATOM	8243	CD2	TYR	863	26.330	46.549	0.363	1.00	0.00	C
ATOM	8244	CE1	TYR	863	27.519	48.015	2.353	1.00	0.00	C
ATOM	8245	CE2	TYR	863	25.752	47.721	0.790	1.00	0.00	C
ATOM	8246	CZ	TYR	863	26.347	48.456	1.786	1.00	0.00	C
ATOM	8247	OH	TYR	863	25.756	49.660	2.224	1.00	0.00	O
ATOM	8248	HH	TYR	863	24.946	49.965	1.832	1.00	0.00	H
ATOM	8249	C	TYR	863	27.930	42.409	0.576	1.00	0.00	C
ATOM	8250	O	TYR	863	27.055	41.754	0.010	1.00	0.00	O
ATOM	8251	N	ALA	864	29.208	41.995	0.631	1.00	0.00	N
ATOM	8252	HN	ALA	864	29.869	42.474	1.242	1.00	0.00	H
ATOM	8253	CA	ALA	864	29.648	40.885	-0.163	1.00	0.00	C
ATOM	8254	CB	ALA	864	31.118	40.540	0.083	1.00	0.00	C
ATOM	8255	C	ALA	864	28.889	39.651	0.178	1.00	0.00	C
ATOM	8256	O	ALA	864	28.349	38.987	-0.706	1.00	0.00	O
ATOM	8257	N	GLY	865	28.778	39.338	1.478	1.00	0.00	N
ATOM	8258	HN	GLY	865	29.143	39.967	2.193	1.00	0.00	H
ATOM	8259	CA	GLY	865	28.142	38.112	1.849	1.00	0.00	C
ATOM	8260	C	GLY	865	26.744	38.159	1.341	1.00	0.00	C
ATOM	8261	O	GLY	865	26.237	37.174	0.807	1.00	0.00	O
ATOM	8262	N	CYS	866	26.096	39.329	1.470	1.00	0.00	N
ATOM	8263	HN	CYS	866	26.580	40.144	1.846	1.00	0.00	H
ATOM	8264	CA	CYS	866	24.726	39.424	1.077	1.00	0.00	C
ATOM	8265	CB	CYS	866	24.143	40.822	1.325	1.00	0.00	C
ATOM	8266	SG	CYS	866	24.137	41.259	3.090	1.00	0.00	S
ATOM	8267	C	CYS	866	24.554	39.110	-0.382	1.00	0.00	C
ATOM	8268	O	CYS	866	23.896	38.136	-0.741	1.00	0.00	O
ATOM	8269	N	PHE	867	25.218	39.866	-1.270	1.00	0.00	N
ATOM	8270	HN	PHE	867	25.877	40.573	-0.944	1.00	0.00	H
ATOM	8271	CA	PHE	867	25.003	39.682	-2.679	1.00	0.00	C
ATOM	8272	CB	PHE	867	25.810	40.659	-3.554	1.00	0.00	C
ATOM	8273	CG	PHE	867	25.197	42.014	-3.431	1.00	0.00	C
ATOM	8274	CD1	PHE	867	24.148	42.383	-4.243	1.00	0.00	C
ATOM	8275	CD2	PHE	867	25.670	42.917	-2.508	1.00	0.00	C
ATOM	8276	CE1	PHE	867	23.579	43.630	-4.136	1.00	0.00	C
ATOM	8277	CE2	PHE	867	25.105	44.165	-2.397	1.00	0.00	C
ATOM	8278	CZ	PHE	867	24.058	44.525	-3.210	1.00	0.00	C
ATOM	8279	C	PHE	867	25.400	38.292	-3.055	1.00	0.00	C
ATOM	8280	O	PHE	867	24.762	37.666	-3.900	1.00	0.00	O
ATOM	8281	N	ARG	868	26.493	37.780	-2.468	1.00	0.00	N
ATOM	8282	HN	ARG	868	26.999	38.321	-1.767	1.00	0.00	H
ATOM	8283	CA	ARG	868	26.946	36.471	-2.830	1.00	0.00	C
ATOM	8284	CB	ARG	868	28.270	36.117	-2.132	1.00	0.00	C
ATOM	8285	CG	ARG	868	29.037	34.956	-2.769	1.00	0.00	C

ATOM	8286	CD	ARG	868	28.655	33.583	-2.221	1.00	0.00	C
ATOM	8287	NE	ARG	868	27.624	33.004	-3.125	1.00	0.00	N
ATOM	8288	HE	ARG	868	27.345	33.502	-3.970	1.00	0.00	H
ATOM	8289	CZ	ARG	868	27.055	31.803	-2.815	1.00	0.00	C
ATOM	8290	NH1	ARG	868	27.377	31.182	-1.643	1.00	0.00	N
ATOM	8291	1HH1	ARG	868	28.042	31.615	-1.002	1.00	0.00	H
ATOM	8292	2HH1	ARG	868	26.952	30.284	-1.411	1.00	0.00	H
ATOM	8293	NH2	ARG	868	26.166	31.224	-3.673	1.00	0.00	N
ATOM	8294	1HH2	ARG	868	25.925	31.688	-4.549	1.00	0.00	H
ATOM	8295	2HH2	ARG	868	25.741	30.326	-3.441	1.00	0.00	H
ATOM	8296	C	ARG	868	25.919	35.444	-2.442	1.00	0.00	C
ATOM	8297	O	ARG	868	25.484	34.634	-3.260	1.00	0.00	O
ATOM	8298	N	PHE	869	25.456	35.499	-1.181	1.00	0.00	N
ATOM	8299	HN	PHE	869	25.758	36.269	-0.583	1.00	0.00	H
ATOM	8300	CA	PHE	869	24.556	34.522	-0.640	1.00	0.00	C
ATOM	8301	CB	PHE	869	24.251	34.823	0.838	1.00	0.00	C
ATOM	8302	CG	PHE	869	23.557	33.653	1.439	1.00	0.00	C
ATOM	8303	CD1	PHE	869	24.292	32.617	1.966	1.00	0.00	C
ATOM	8304	CD2	PHE	869	22.184	33.585	1.472	1.00	0.00	C
ATOM	8305	CE1	PHE	869	23.667	31.529	2.527	1.00	0.00	C
ATOM	8306	CE2	PHE	869	21.553	32.500	2.031	1.00	0.00	C
ATOM	8307	CZ	PHE	869	22.294	31.471	2.560	1.00	0.00	C
ATOM	8308	C	PHE	869	23.283	34.563	-1.417	1.00	0.00	C
ATOM	8309	O	PHE	869	22.758	33.525	-1.817	1.00	0.00	O
ATOM	8310	N	GLY	870	22.767	35.776	-1.686	1.00	0.00	N
ATOM	8311	HN	GLY	870	23.264	36.621	-1.405	1.00	0.00	H
ATOM	8312	CA	GLY	870	21.514	35.869	-2.370	1.00	0.00	C
ATOM	8313	C	GLY	870	21.624	35.203	-3.706	1.00	0.00	C
ATOM	8314	O	GLY	870	20.830	34.329	-4.037	1.00	0.00	O
ATOM	8315	N	ALA	871	22.693	35.502	-4.456	1.00	0.00	N
ATOM	8316	HN	ALA	871	23.428	36.076	-4.043	1.00	0.00	H
ATOM	8317	CA	ALA	871	22.858	35.057	-5.811	1.00	0.00	C
ATOM	8318	CB	ALA	871	24.231	35.426	-6.397	1.00	0.00	C
ATOM	8319	C	ALA	871	22.750	33.574	-5.838	1.00	0.00	C
ATOM	8320	O	ALA	871	22.307	33.021	-6.843	1.00	0.00	O
ATOM	8321	N	TYR	872	23.161	32.926	-4.727	1.00	0.00	N
ATOM	8322	HN	TYR	872	23.448	33.508	-3.940	1.00	0.00	H
ATOM	8323	CA	TYR	872	23.237	31.500	-4.534	1.00	0.00	C
ATOM	8324	CB	TYR	872	23.004	31.094	-3.068	1.00	0.00	C
ATOM	8325	CG	TYR	872	23.207	29.624	-2.941	1.00	0.00	C
ATOM	8326	CD1	TYR	872	24.466	29.116	-2.720	1.00	0.00	C
ATOM	8327	CD2	TYR	872	22.145	28.756	-3.038	1.00	0.00	C
ATOM	8328	CE1	TYR	872	24.668	27.761	-2.598	1.00	0.00	C
ATOM	8329	CE2	TYR	872	22.340	27.400	-2.918	1.00	0.00	C
ATOM	8330	CZ	TYR	872	23.601	26.901	-2.698	1.00	0.00	C
ATOM	8331	OH	TYR	872	23.797	25.509	-2.575	1.00	0.00	O
ATOM	8332	HH	TYR	872	24.669	25.164	-2.423	1.00	0.00	H
ATOM	8333	C	TYR	872	22.252	30.743	-5.395	1.00	0.00	C
ATOM	8334	O	TYR	872	21.054	31.008	-5.388	1.00	0.00	O
ATOM	8335	N	LEU	873	22.793	29.745	-6.126	1.00	0.00	N
ATOM	8336	HN	LEU	873	23.800	29.647	-5.999	1.00	0.00	H
ATOM	8337	CA	LEU	873	22.228	28.784	-7.056	1.00	0.00	C
ATOM	8338	CB	LEU	873	21.496	27.598	-6.420	1.00	0.00	C
ATOM	8339	CG	LEU	873	21.084	26.602	-7.521	1.00	0.00	C
ATOM	8340	CD1	LEU	873	22.322	25.987	-8.189	1.00	0.00	C
ATOM	8341	CD2	LEU	873	20.089	25.552	-7.023	1.00	0.00	C
ATOM	8342	C	LEU	873	21.357	29.259	-8.191	1.00	0.00	C
ATOM	8343	O	LEU	873	20.130	29.202	-8.132	1.00	0.00	O
ATOM	8344	N	VAL	874	22.002	29.803	-9.238	1.00	0.00	N
ATOM	8345	HN	VAL	874	23.001	29.960	-9.106	1.00	0.00	H
ATOM	8346	CA	VAL	874	21.476	30.195	-10.521	1.00	0.00	C
ATOM	8347	CB	VAL	874	22.159	31.386	-11.112	1.00	0.00	C
ATOM	8348	CG1	VAL	874	22.002	32.565	-10.138	1.00	0.00	C
ATOM	8349	CG2	VAL	874	23.603	31.010	-11.435	1.00	0.00	C
ATOM	8350	C	VAL	874	21.498	29.074	-11.540	1.00	0.00	C
ATOM	8351	O	VAL	874	21.412	29.352	-12.737	1.00	0.00	O
ATOM	8352	N	ALA	875	21.798	27.816	-11.151	1.00	0.00	N
ATOM	8353	HN	ALA	875	21.926	27.600	-10.162	1.00	0.00	H
ATOM	8354	CA	ALA	875	21.937	26.776	-12.148	1.00	0.00	C
ATOM	8355	CB	ALA	875	22.489	25.459	-11.572	1.00	0.00	C
ATOM	8356	C	ALA	875	20.638	26.449	-12.845	1.00	0.00	C
ATOM	8357	O	ALA	875	19.763	25.781	-12.305	1.00	0.00	O
ATOM	8358	N	HIS	876	20.548	26.838	-14.133	1.00	0.00	N
ATOM	8359	HN	HIS	876	21.353	27.342	-14.505	1.00	0.00	H

ATOM	8360	CA	HIS	876	19.454	26.629	-15.048	1.00	0.00	C
ATOM	8361	ND1	HIS	876	17.056	24.213	-14.429	1.00	0.00	N
ATOM	8362	HD1	HIS	876	16.401	24.729	-15.017	1.00	0.00	H
ATOM	8363	CG	HIS	876	18.431	24.296	-14.462	1.00	0.00	C
ATOM	8364	CB	HIS	876	19.198	25.151	-15.435	1.00	0.00	C
ATOM	8365	NE2	HIS	876	17.812	22.813	-12.876	1.00	0.00	N
ATOM	8366	HE2	HIS	876	17.848	22.123	-12.125	1.00	0.00	H
ATOM	8367	CD2	HIS	876	18.876	23.435	-13.507	1.00	0.00	C
ATOM	8368	CE1	HIS	876	16.740	23.312	-13.463	1.00	0.00	C
ATOM	8369	C	HIS	876	18.168	27.277	-14.614	1.00	0.00	C
ATOM	8370	O	HIS	876	17.091	26.815	-14.983	1.00	0.00	O
ATOM	8371	N	LYS	877	18.252	28.408	-13.881	1.00	0.00	N
ATOM	8372	HN	LYS	877	19.181	28.729	-13.607	1.00	0.00	H
ATOM	8373	CA	LYS	877	17.116	29.194	-13.458	1.00	0.00	C
ATOM	8374	CB	LYS	877	15.959	29.253	-14.461	1.00	0.00	C
ATOM	8375	CG	LYS	877	14.871	30.224	-14.012	1.00	0.00	C
ATOM	8376	CD	LYS	877	15.331	31.683	-14.039	1.00	0.00	C
ATOM	8377	CE	LYS	877	16.435	32.028	-13.037	1.00	0.00	C
ATOM	8378	NZ	LYS	877	16.895	33.419	-13.249	1.00	0.00	N
ATOM	8379	HZ1	LYS	877	17.631	33.649	-12.581	1.00	0.00	H
ATOM	8380	HZ2	LYS	877	16.124	34.086	-13.213	1.00	0.00	H
ATOM	8381	HZ3	LYS	877	17.188	33.582	-14.212	1.00	0.00	H
ATOM	8382	C	LYS	877	16.503	28.638	-12.212	1.00	0.00	C
ATOM	8383	O	LYS	877	15.728	27.686	-12.259	1.00	0.00	O
ATOM	8384	N	LEU	878	16.769	29.307	-11.075	1.00	0.00	N
ATOM	8385	HN	LEU	878	17.293	30.179	-11.144	1.00	0.00	H
ATOM	8386	CA	LEU	878	16.360	28.867	-9.772	1.00	0.00	C
ATOM	8387	CB	LEU	878	17.616	28.310	-9.054	1.00	0.00	C
ATOM	8388	CG	LEU	878	17.505	27.754	-7.624	1.00	0.00	C
ATOM	8389	CD1	LEU	878	17.572	28.851	-6.552	1.00	0.00	C
ATOM	8390	CD2	LEU	878	16.289	26.825	-7.501	1.00	0.00	C
ATOM	8391	C	LEU	878	15.755	30.065	-9.068	1.00	0.00	C
ATOM	8392	O	LEU	878	15.747	31.167	-9.611	1.00	0.00	O
ATOM	8393	N	MET	879	15.295	29.903	-7.808	1.00	0.00	N
ATOM	8394	HN	MET	879	15.448	29.003	-7.354	1.00	0.00	H
ATOM	8395	CA	MET	879	14.601	30.925	-7.067	1.00	0.00	C
ATOM	8396	CB	MET	879	14.089	30.532	-5.664	1.00	0.00	C
ATOM	8397	CG	MET	879	15.069	29.829	-4.726	1.00	0.00	C
ATOM	8398	SD	MET	879	15.097	28.027	-4.942	1.00	0.00	S
ATOM	8399	CE	MET	879	13.293	27.867	-4.830	1.00	0.00	C
ATOM	8400	C	MET	879	15.471	32.134	-6.950	1.00	0.00	C
ATOM	8401	O	MET	879	15.013	33.186	-6.508	1.00	0.00	O
ATOM	8402	N	SER	880	16.777	31.988	-7.226	1.00	0.00	N
ATOM	8403	HN	SER	880	17.145	31.064	-7.452	1.00	0.00	H
ATOM	8404	CA	SER	880	17.663	33.121	-7.207	1.00	0.00	C
ATOM	8405	CB	SER	880	19.143	32.712	-7.135	1.00	0.00	C
ATOM	8406	OG	SER	880	19.502	31.989	-8.305	1.00	0.00	O
ATOM	8407	HG	SER	880	20.417	31.736	-8.261	1.00	0.00	H
ATOM	8408	C	SER	880	17.502	33.928	-8.470	1.00	0.00	C
ATOM	8409	O	SER	880	17.753	33.435	-9.570	1.00	0.00	O
ATOM	8410	N	PHE	881	17.103	35.216	-8.326	1.00	0.00	N
ATOM	8411	HN	PHE	881	16.932	35.574	-7.386	1.00	0.00	H
ATOM	8412	CA	PHE	881	16.911	36.099	-9.447	1.00	0.00	C
ATOM	8413	CB	PHE	881	15.649	35.762	-10.274	1.00	0.00	C
ATOM	8414	CG	PHE	881	14.419	35.973	-9.457	1.00	0.00	C
ATOM	8415	CD1	PHE	881	14.182	35.193	-8.350	1.00	0.00	C
ATOM	8416	CD2	PHE	881	13.515	36.962	-9.775	1.00	0.00	C
ATOM	8417	CE1	PHE	881	13.056	35.381	-7.584	1.00	0.00	C
ATOM	8418	CE2	PHE	881	12.387	37.156	-9.015	1.00	0.00	C
ATOM	8419	CZ	PHE	881	12.155	36.363	-7.918	1.00	0.00	C
ATOM	8420	C	PHE	881	16.841	37.524	-8.937	1.00	0.00	C
ATOM	8421	O	PHE	881	17.549	37.909	-8.008	1.00	0.00	O
ATOM	8422	N	GLU	882	15.954	38.344	-9.537	1.00	0.00	N
ATOM	8423	HN	GLU	882	15.327	37.924	-10.223	1.00	0.00	H
ATOM	8424	CA	GLU	882	15.809	39.762	-9.300	1.00	0.00	C
ATOM	8425	CB	GLU	882	14.691	40.397	-10.147	1.00	0.00	C
ATOM	8426	CG	GLU	882	14.647	41.931	-10.078	1.00	0.00	C
ATOM	8427	CD	GLU	882	13.910	42.401	-8.825	1.00	0.00	C
ATOM	8428	OE1	GLU	882	13.192	41.578	-8.198	1.00	0.00	O
ATOM	8429	OE2	GLU	882	14.068	43.600	-8.473	1.00	0.00	O
ATOM	8430	C	GLU	882	15.502	40.134	-7.870	1.00	0.00	C
ATOM	8431	O	GLU	882	15.959	41.181	-7.414	1.00	0.00	O
ATOM	8432	N	ASP	883	14.778	39.299	-7.105	1.00	0.00	N
ATOM	8433	HN	ASP	883	14.586	38.368	-7.476	1.00	0.00	H

ATOM	8434	CA	ASP	883	14.249	39.618	-5.796	1.00	0.00	C
ATOM	8435	CB	ASP	883	13.689	38.375	-5.082	1.00	0.00	C
ATOM	8436	CG	ASP	883	14.799	37.348	-4.903	1.00	0.00	C
ATOM	8437	OD1	ASP	883	15.606	37.155	-5.852	1.00	0.00	O
ATOM	8438	OD2	ASP	883	14.839	36.723	-3.810	1.00	0.00	O
ATOM	8439	C	ASP	883	15.300	40.246	-4.924	1.00	0.00	C
ATOM	8440	O	ASP	883	14.977	41.010	-4.013	1.00	0.00	O
ATOM	8441	N	VAL	884	16.585	39.982	-5.206	1.00	0.00	N
ATOM	8442	HN	VAL	884	16.795	39.357	-5.984	1.00	0.00	H
ATOM	8443	CA	VAL	884	17.677	40.541	-4.460	1.00	0.00	C
ATOM	8444	CB	VAL	884	18.997	40.304	-5.133	1.00	0.00	C
ATOM	8445	CG1	VAL	884	19.256	38.789	-5.186	1.00	0.00	C
ATOM	8446	CG2	VAL	884	18.964	40.966	-6.522	1.00	0.00	C
ATOM	8447	C	VAL	884	17.488	42.035	-4.359	1.00	0.00	C
ATOM	8448	O	VAL	884	17.968	42.664	-3.417	1.00	0.00	O
ATOM	8449	N	LEU	885	16.802	42.659	-5.333	1.00	0.00	N
ATOM	8450	HN	LEU	885	16.436	42.123	-6.119	1.00	0.00	H
ATOM	8451	CA	LEU	885	16.582	44.081	-5.271	1.00	0.00	C
ATOM	8452	CB	LEU	885	15.859	44.639	-6.509	1.00	0.00	C
ATOM	8453	CG	LEU	885	16.774	44.745	-7.745	1.00	0.00	C
ATOM	8454	CD1	LEU	885	17.830	45.845	-7.553	1.00	0.00	C
ATOM	8455	CD2	LEU	885	17.417	43.397	-8.100	1.00	0.00	C
ATOM	8456	C	LEU	885	15.787	44.435	-4.046	1.00	0.00	C
ATOM	8457	O	LEU	885	16.014	45.482	-3.442	1.00	0.00	O
ATOM	8458	N	LEU	886	14.802	43.602	-3.663	1.00	0.00	N
ATOM	8459	HN	LEU	886	14.579	42.786	-4.232	1.00	0.00	H
ATOM	8460	CA	LEU	886	14.062	43.855	-2.457	1.00	0.00	C
ATOM	8461	CB	LEU	886	12.831	42.953	-2.292	1.00	0.00	C
ATOM	8462	CG	LEU	886	11.683	43.329	-3.247	1.00	0.00	C
ATOM	8463	CD1	LEU	886	12.107	43.183	-4.715	1.00	0.00	C
ATOM	8464	CD2	LEU	886	10.397	42.556	-2.911	1.00	0.00	C
ATOM	8465	C	LEU	886	15.000	43.668	-1.307	1.00	0.00	C
ATOM	8466	O	LEU	886	14.827	44.236	-0.232	1.00	0.00	O
ATOM	8467	N	VAL	887	16.023	42.821	-1.477	1.00	0.00	N
ATOM	8468	HN	VAL	887	16.134	42.298	-2.346	1.00	0.00	H
ATOM	8469	CA	VAL	887	16.959	42.672	-0.399	1.00	0.00	C
ATOM	8470	CB	VAL	887	18.074	41.725	-0.733	1.00	0.00	C
ATOM	8471	CG1	VAL	887	19.074	41.712	0.436	1.00	0.00	C
ATOM	8472	CG2	VAL	887	17.468	40.347	-1.053	1.00	0.00	C
ATOM	8473	C	VAL	887	17.561	44.025	-0.128	1.00	0.00	C
ATOM	8474	O	VAL	887	17.708	44.446	1.020	1.00	0.00	O
ATOM	8475	N	PHE	888	17.877	44.775	-1.200	1.00	0.00	N
ATOM	8476	HN	PHE	888	17.699	44.409	-2.135	1.00	0.00	H
ATOM	8477	CA	PHE	888	18.460	46.081	-1.056	1.00	0.00	C
ATOM	8478	CB	PHE	888	18.657	46.783	-2.413	1.00	0.00	C
ATOM	8479	CG	PHE	888	19.155	48.166	-2.166	1.00	0.00	C
ATOM	8480	CD1	PHE	888	18.262	49.191	-1.956	1.00	0.00	C
ATOM	8481	CD2	PHE	888	20.503	48.442	-2.147	1.00	0.00	C
ATOM	8482	CE1	PHE	888	18.703	50.473	-1.728	1.00	0.00	C
ATOM	8483	CE2	PHE	888	20.950	49.724	-1.918	1.00	0.00	C
ATOM	8484	CZ	PHE	888	20.050	50.741	-1.709	1.00	0.00	C
ATOM	8485	C	PHE	888	17.493	46.891	-0.250	1.00	0.00	C
ATOM	8486	O	PHE	888	17.869	47.726	0.571	1.00	0.00	O
ATOM	8487	N	SER	889	16.198	46.650	-0.475	1.00	0.00	N
ATOM	8488	HN	SER	889	15.940	45.940	-1.160	1.00	0.00	H
ATOM	8489	CA	SER	889	15.163	47.355	0.214	1.00	0.00	C
ATOM	8490	CB	SER	889	13.803	46.759	-0.199	1.00	0.00	C
ATOM	8491	OG	SER	889	12.763	47.120	0.685	1.00	0.00	O
ATOM	8492	HG	SER	889	11.925	46.753	0.430	1.00	0.00	H
ATOM	8493	C	SER	889	15.342	47.247	1.715	1.00	0.00	C
ATOM	8494	O	SER	889	15.281	48.249	2.426	1.00	0.00	O
ATOM	8495	N	ALA	890	15.545	46.031	2.252	1.00	0.00	N
ATOM	8496	HN	ALA	890	15.595	45.224	1.630	1.00	0.00	H
ATOM	8497	CA	ALA	890	15.695	45.821	3.674	1.00	0.00	C
ATOM	8498	CB	ALA	890	15.637	44.334	4.061	1.00	0.00	C
ATOM	8499	C	ALA	890	16.974	46.398	4.219	1.00	0.00	C
ATOM	8500	O	ALA	890	17.014	46.864	5.359	1.00	0.00	O
ATOM	8501	N	VAL	891	18.080	46.315	3.453	1.00	0.00	N
ATOM	8502	HN	VAL	891	18.033	45.896	2.524	1.00	0.00	H
ATOM	8503	CA	VAL	891	19.327	46.824	3.959	1.00	0.00	C
ATOM	8504	CB	VAL	891	20.519	46.536	3.076	1.00	0.00	C
ATOM	8505	CG1	VAL	891	20.741	45.016	3.028	1.00	0.00	C
ATOM	8506	CG2	VAL	891	20.307	47.155	1.687	1.00	0.00	C
ATOM	8507	C	VAL	891	19.191	48.306	4.101	1.00	0.00	C

ATOM	8508	O	VAL	891	19.544	48.886	5.129	1.00	0.00	O
ATOM	8509	N	VAL	892	18.622	48.948	3.064	1.00	0.00	N
ATOM	8510	HN	VAL	892	18.309	48.406	2.258	1.00	0.00	H
ATOM	8511	CA	VAL	892	18.444	50.364	3.058	1.00	0.00	C
ATOM	8512	CB	VAL	892	17.962	50.920	1.742	1.00	0.00	C
ATOM	8513	CG1	VAL	892	16.506	50.508	1.496	1.00	0.00	C
ATOM	8514	CG2	VAL	892	18.186	52.441	1.750	1.00	0.00	C
ATOM	8515	C	VAL	892	17.477	50.692	4.151	1.00	0.00	C
ATOM	8516	O	VAL	892	17.435	51.819	4.644	1.00	0.00	O
ATOM	8517	N	PHE	893	16.631	49.716	4.540	1.00	0.00	N
ATOM	8518	HN	PHE	893	16.647	48.798	4.095	1.00	0.00	H
ATOM	8519	CA	PHE	893	15.708	50.009	5.599	1.00	0.00	C
ATOM	8520	CB	PHE	893	14.829	48.845	6.093	1.00	0.00	C
ATOM	8521	CG	PHE	893	13.828	48.436	5.082	1.00	0.00	C
ATOM	8522	CD1	PHE	893	13.219	49.366	4.278	1.00	0.00	C
ATOM	8523	CD2	PHE	893	13.435	47.121	5.014	1.00	0.00	C
ATOM	8524	CE1	PHE	893	12.279	48.959	3.367	1.00	0.00	C
ATOM	8525	CE2	PHE	893	12.493	46.710	4.106	1.00	0.00	C
ATOM	8526	CZ	PHE	893	11.917	47.637	3.275	1.00	0.00	C
ATOM	8527	C	PHE	893	16.465	50.373	6.835	1.00	0.00	C
ATOM	8528	O	PHE	893	16.231	51.424	7.432	1.00	0.00	O
ATOM	8529	N	GLY	894	17.438	49.528	7.223	1.00	0.00	N
ATOM	8530	HN	GLY	894	17.688	48.739	6.627	1.00	0.00	H
ATOM	8531	CA	GLY	894	18.128	49.725	8.467	1.00	0.00	C
ATOM	8532	C	GLY	894	18.734	51.090	8.442	1.00	0.00	C
ATOM	8533	O	GLY	894	18.698	51.835	9.424	1.00	0.00	O
ATOM	8534	N	ALA	895	19.259	51.470	7.272	1.00	0.00	N
ATOM	8535	HN	ALA	895	19.217	50.844	6.468	1.00	0.00	H
ATOM	8536	CA	ALA	895	19.877	52.748	7.147	1.00	0.00	C
ATOM	8537	CB	ALA	895	20.427	53.008	5.734	1.00	0.00	C
ATOM	8538	C	ALA	895	18.861	53.817	7.440	1.00	0.00	C
ATOM	8539	O	ALA	895	19.185	54.828	8.061	1.00	0.00	O
ATOM	8540	N	MET	896	17.596	53.620	7.018	1.00	0.00	N
ATOM	8541	HN	MET	896	17.336	52.727	6.598	1.00	0.00	H
ATOM	8542	CA	MET	896	16.607	54.661	7.155	1.00	0.00	C
ATOM	8543	CB	MET	896	15.223	54.268	6.589	1.00	0.00	C
ATOM	8544	CG	MET	896	14.365	53.418	7.531	1.00	0.00	C
ATOM	8545	SD	MET	896	12.987	52.534	6.740	1.00	0.00	S
ATOM	8546	CE	MET	896	11.890	53.972	6.585	1.00	0.00	C
ATOM	8547	C	MET	896	16.417	55.038	8.603	1.00	0.00	C
ATOM	8548	O	MET	896	16.410	56.218	8.955	1.00	0.00	O
ATOM	8549	N	ALA	897	16.293	54.039	9.493	1.00	0.00	N
ATOM	8550	HN	ALA	897	16.369	53.076	9.166	1.00	0.00	H
ATOM	8551	CA	ALA	897	16.057	54.282	10.890	1.00	0.00	C
ATOM	8552	CB	ALA	897	15.876	52.989	11.701	1.00	0.00	C
ATOM	8553	C	ALA	897	17.226	55.010	11.461	1.00	0.00	C
ATOM	8554	O	ALA	897	17.082	55.825	12.372	1.00	0.00	O
ATOM	8555	N	VAL	898	18.430	54.723	10.937	1.00	0.00	N
ATOM	8556	HN	VAL	898	18.502	54.073	10.154	1.00	0.00	H
ATOM	8557	CA	VAL	898	19.613	55.327	11.475	1.00	0.00	C
ATOM	8558	CB	VAL	898	20.852	54.984	10.699	1.00	0.00	C
ATOM	8559	CG1	VAL	898	22.035	55.774	11.287	1.00	0.00	C
ATOM	8560	CG2	VAL	898	21.049	53.459	10.736	1.00	0.00	C
ATOM	8561	C	VAL	898	19.440	56.812	11.411	1.00	0.00	C
ATOM	8562	O	VAL	898	19.790	57.539	12.343	1.00	0.00	O
ATOM	8563	N	GLY	899	18.827	57.296	10.320	1.00	0.00	N
ATOM	8564	HN	GLY	899	18.470	56.656	9.610	1.00	0.00	H
ATOM	8565	CA	GLY	899	18.674	58.708	10.151	1.00	0.00	C
ATOM	8566	C	GLY	899	17.913	59.268	11.319	1.00	0.00	C
ATOM	8567	O	GLY	899	18.206	60.363	11.797	1.00	0.00	O
ATOM	8568	N	GLN	900	16.907	58.523	11.810	1.00	0.00	N
ATOM	8569	HN	GLN	900	16.782	57.573	11.461	1.00	0.00	H
ATOM	8570	CA	GLN	900	16.000	59.021	12.813	1.00	0.00	C
ATOM	8571	CB	GLN	900	14.916	57.983	13.137	1.00	0.00	C
ATOM	8572	CG	GLN	900	14.233	57.367	11.912	1.00	0.00	C
ATOM	8573	CD	GLN	900	13.371	58.408	11.224	1.00	0.00	C
ATOM	8574	OE1	GLN	900	12.668	58.099	10.264	1.00	0.00	O
ATOM	8575	NE2	GLN	900	13.424	59.673	11.720	1.00	0.00	N
ATOM	8576	1HE2	GLN	900	12.844	60.373	11.257	1.00	0.00	H
ATOM	8577	2HE2	GLN	900	14.007	59.929	12.517	1.00	0.00	H
ATOM	8578	C	GLN	900	16.664	59.328	14.138	1.00	0.00	C
ATOM	8579	O	GLN	900	16.504	60.423	14.684	1.00	0.00	O
ATOM	8580	N	VAL	901	17.445	58.380	14.695	1.00	0.00	N
ATOM	8581	HN	VAL	901	17.649	57.520	14.185	1.00	0.00	H

ATOM	8582	CA	VAL	901	17.992	58.587	16.017	1.00	0.00	C
ATOM	8583	CB	VAL	901	18.761	57.403	16.536	1.00	0.00	C
ATOM	8584	CG1	VAL	901	19.922	57.087	15.576	1.00	0.00	C
ATOM	8585	CG2	VAL	901	19.206	57.718	17.976	1.00	0.00	C
ATOM	8586	C	VAL	901	18.901	59.756	15.964	1.00	0.00	C
ATOM	8587	O	VAL	901	18.924	60.603	16.859	1.00	0.00	O
ATOM	8588	N	SER	902	19.673	59.810	14.873	1.00	0.00	N
ATOM	8589	HN	SER	902	19.563	59.089	14.160	1.00	0.00	H
ATOM	8590	CA	SER	902	20.642	60.833	14.665	1.00	0.00	C
ATOM	8591	CB	SER	902	21.659	60.470	13.569	1.00	0.00	C
ATOM	8592	OG	SER	902	22.401	59.322	13.954	1.00	0.00	O
ATOM	8593	HG	SER	902	23.029	59.098	13.277	1.00	0.00	H
ATOM	8594	C	SER	902	19.974	62.116	14.247	1.00	0.00	C
ATOM	8595	O	SER	902	20.675	63.079	13.945	1.00	0.00	O
ATOM	8596	N	SER	903	18.624	62.194	14.179	1.00	0.00	N
ATOM	8597	HN	SER	903	18.029	61.422	14.479	1.00	0.00	H
ATOM	8598	CA	SER	903	18.064	63.423	13.661	1.00	0.00	C
ATOM	8599	CB	SER	903	17.575	63.283	12.211	1.00	0.00	C
ATOM	8600	OG	SER	903	16.543	62.310	12.143	1.00	0.00	O
ATOM	8601	HG	SER	903	16.241	62.223	11.247	1.00	0.00	H
ATOM	8602	C	SER	903	16.892	63.889	14.479	1.00	0.00	C
ATOM	8603	O	SER	903	16.534	63.270	15.480	1.00	0.00	O
ATOM	8604	N	PHE	904	16.315	65.057	14.083	1.00	0.00	N
ATOM	8605	HN	PHE	904	16.729	65.558	13.297	1.00	0.00	H
ATOM	8606	CA	PHE	904	15.146	65.624	14.719	1.00	0.00	C
ATOM	8607	CB	PHE	904	14.008	64.635	15.047	1.00	0.00	C
ATOM	8608	CG	PHE	904	12.976	64.663	13.969	1.00	0.00	C
ATOM	8609	CD1	PHE	904	12.059	65.689	13.964	1.00	0.00	C
ATOM	8610	CD2	PHE	904	12.882	63.693	12.998	1.00	0.00	C
ATOM	8611	CE1	PHE	904	11.078	65.767	13.006	1.00	0.00	C
ATOM	8612	CE2	PHE	904	11.899	63.766	12.035	1.00	0.00	C
ATOM	8613	CZ	PHE	904	10.996	64.802	12.034	1.00	0.00	C
ATOM	8614	C	PHE	904	15.494	66.352	15.986	1.00	0.00	C
ATOM	8615	O	PHE	904	16.614	66.816	16.192	1.00	0.00	O
ATOM	8616	N	ALA	905	14.484	66.433	16.878	1.00	0.00	N
ATOM	8617	HN	ALA	905	13.630	65.933	16.631	1.00	0.00	H
ATOM	8618	CA	ALA	905	14.460	67.137	18.135	1.00	0.00	C
ATOM	8619	CB	ALA	905	13.175	66.794	18.918	1.00	0.00	C
ATOM	8620	C	ALA	905	15.663	66.739	18.936	1.00	0.00	C
ATOM	8621	O	ALA	905	16.345	65.780	18.572	1.00	0.00	O
ATOM	8622	N	PRO	906	15.985	67.482	19.992	1.00	0.00	N
ATOM	8623	CA	PRO	906	17.115	67.161	20.823	1.00	0.00	C
ATOM	8624	CD	PRO	906	15.042	68.348	20.688	1.00	0.00	C
ATOM	8625	CB	PRO	906	17.045	68.112	22.018	1.00	0.00	C
ATOM	8626	CG	PRO	906	15.543	68.416	22.139	1.00	0.00	C
ATOM	8627	C	PRO	906	16.919	65.737	21.228	1.00	0.00	C
ATOM	8628	O	PRO	906	15.760	65.333	21.271	1.00	0.00	O
ATOM	8629	N	ASP	907	18.010	65.003	21.587	1.00	0.00	N
ATOM	8630	HN	ASP	907	18.879	65.536	21.598	1.00	0.00	H
ATOM	8631	CA	ASP	907	18.175	63.602	21.959	1.00	0.00	C
ATOM	8632	CB	ASP	907	19.638	63.196	22.189	1.00	0.00	C
ATOM	8633	CG	ASP	907	19.702	61.677	22.085	1.00	0.00	C
ATOM	8634	OD1	ASP	907	18.617	61.045	21.968	1.00	0.00	O
ATOM	8635	OD2	ASP	907	20.835	61.127	22.112	1.00	0.00	O
ATOM	8636	C	ASP	907	17.414	63.371	23.250	1.00	0.00	C
ATOM	8637	O	ASP	907	17.778	62.573	24.109	1.00	0.00	O
ATOM	8638	N	TYR	908	16.390	64.201	23.466	1.00	0.00	N
ATOM	8639	HN	TYR	908	16.194	64.858	22.711	1.00	0.00	H
ATOM	8640	CA	TYR	908	15.540	64.300	24.589	1.00	0.00	C
ATOM	8641	CB	TYR	908	15.268	62.901	25.174	1.00	0.00	C
ATOM	8642	CG	TYR	908	13.818	62.730	25.466	1.00	0.00	C
ATOM	8643	CD1	TYR	908	13.198	63.418	26.477	1.00	0.00	C
ATOM	8644	CD2	TYR	908	13.080	61.838	24.719	1.00	0.00	C
ATOM	8645	CE1	TYR	908	11.859	63.233	26.728	1.00	0.00	C
ATOM	8646	CE2	TYR	908	11.741	61.645	24.961	1.00	0.00	C
ATOM	8647	CZ	TYR	908	11.129	62.348	25.970	1.00	0.00	C
ATOM	8648	OH	TYR	908	9.755	62.161	26.231	1.00	0.00	O
ATOM	8649	HH	TYR	908	9.332	62.647	26.929	1.00	0.00	H
ATOM	8650	C	TYR	908	16.463	65.028	25.510	1.00	0.00	C
ATOM	8651	O	TYR	908	16.810	66.175	25.233	1.00	0.00	O
ATOM	8652	N	ALA	909	16.974	64.367	26.561	1.00	0.00	N
ATOM	8653	HN	ALA	909	16.636	63.437	26.808	1.00	0.00	H
ATOM	8654	CA	ALA	909	18.011	65.003	27.330	1.00	0.00	C
ATOM	8655	CB	ALA	909	19.308	65.214	26.528	1.00	0.00	C

ATOM	8656	C	ALA	909	17.569	66.319	27.865	1.00	0.00	C
ATOM	8657	O	ALA	909	16.590	66.438	28.587	1.00	0.00	O
ATOM	8658	N	LYS	910	18.305	67.365	27.471	1.00	0.00	N
ATOM	8659	HN	LYS	910	19.023	67.184	26.770	1.00	0.00	H
ATOM	8660	CA	LYS	910	18.183	68.716	27.938	1.00	0.00	C
ATOM	8661	CB	LYS	910	18.919	69.681	26.995	1.00	0.00	C
ATOM	8662	CG	LYS	910	20.337	69.234	26.616	1.00	0.00	C
ATOM	8663	CD	LYS	910	20.390	68.005	25.697	1.00	0.00	C
ATOM	8664	CE	LYS	910	19.379	68.049	24.548	1.00	0.00	C
ATOM	8665	NZ	LYS	910	19.167	66.688	24.005	1.00	0.00	N
ATOM	8666	HZ1	LYS	910	18.493	66.717	23.240	1.00	0.00	H
ATOM	8667	HZ2	LYS	910	18.892	66.026	24.731	1.00	0.00	H
ATOM	8668	HZ3	LYS	910	20.044	66.248	23.726	1.00	0.00	H
ATOM	8669	C	LYS	910	16.734	69.073	27.855	1.00	0.00	C
ATOM	8670	O	LYS	910	16.244	69.868	28.656	1.00	0.00	O
ATOM	8671	N	ALA	911	16.005	68.518	26.867	1.00	0.00	N
ATOM	8672	HN	ALA	911	16.431	67.874	26.201	1.00	0.00	H
ATOM	8673	CA	ALA	911	14.613	68.858	26.777	1.00	0.00	C
ATOM	8674	CB	ALA	911	13.915	68.183	25.585	1.00	0.00	C
ATOM	8675	C	ALA	911	13.900	68.404	28.029	1.00	0.00	C
ATOM	8676	O	ALA	911	13.149	69.156	28.647	1.00	0.00	O
ATOM	8677	N	LYS	912	14.137	67.158	28.467	1.00	0.00	N
ATOM	8678	HN	LYS	912	14.755	66.551	27.929	1.00	0.00	H
ATOM	8679	CA	LYS	912	13.542	66.658	29.674	1.00	0.00	C
ATOM	8680	CB	LYS	912	13.945	65.218	30.037	1.00	0.00	C
ATOM	8681	CG	LYS	912	13.147	64.128	29.328	1.00	0.00	C
ATOM	8682	CD	LYS	912	13.730	62.728	29.537	1.00	0.00	C
ATOM	8683	CE	LYS	912	12.856	61.604	28.977	1.00	0.00	C
ATOM	8684	NZ	LYS	912	13.467	60.289	29.276	1.00	0.00	N
ATOM	8685	HZ1	LYS	912	12.884	59.540	28.903	1.00	0.00	H
ATOM	8686	HZ2	LYS	912	13.650	60.170	30.272	1.00	0.00	H
ATOM	8687	HZ3	LYS	912	14.428	60.229	28.940	1.00	0.00	H
ATOM	8688	C	LYS	912	13.956	67.491	30.856	1.00	0.00	C
ATOM	8689	O	LYS	912	13.119	67.818	31.696	1.00	0.00	O
ATOM	8690	N	ILE	913	15.247	67.871	30.965	1.00	0.00	N
ATOM	8691	HN	ILE	913	15.920	67.643	30.233	1.00	0.00	H
ATOM	8692	CA	ILE	913	15.655	68.607	32.139	1.00	0.00	C
ATOM	8693	CB	ILE	913	17.138	68.898	32.180	1.00	0.00	C
ATOM	8694	CG1	ILE	913	17.619	69.812	31.035	1.00	0.00	C
ATOM	8695	CG2	ILE	913	17.855	67.538	32.221	1.00	0.00	C
ATOM	8696	CD1	ILE	913	17.430	71.309	31.289	1.00	0.00	C
ATOM	8697	C	ILE	913	14.870	69.867	32.169	1.00	0.00	C
ATOM	8698	O	ILE	913	14.316	70.258	33.198	1.00	0.00	O
ATOM	8699	N	SER	914	14.746	70.514	31.006	1.00	0.00	N
ATOM	8700	HN	SER	914	15.149	70.142	30.146	1.00	0.00	H
ATOM	8701	CA	SER	914	14.027	71.747	31.017	1.00	0.00	C
ATOM	8702	CB	SER	914	14.081	72.467	29.662	1.00	0.00	C
ATOM	8703	OG	SER	914	15.422	72.843	29.381	1.00	0.00	O
ATOM	8704	HG	SER	914	15.455	73.288	28.543	1.00	0.00	H
ATOM	8705	C	SER	914	12.589	71.451	31.350	1.00	0.00	C
ATOM	8706	O	SER	914	11.924	72.245	32.014	1.00	0.00	O
ATOM	8707	N	ALA	915	12.066	70.286	30.914	1.00	0.00	N
ATOM	8708	HN	ALA	915	12.648	69.619	30.407	1.00	0.00	H
ATOM	8709	CA	ALA	915	10.680	69.993	31.170	1.00	0.00	C
ATOM	8710	CB	ALA	915	10.241	68.642	30.578	1.00	0.00	C
ATOM	8711	C	ALA	915	10.422	69.923	32.654	1.00	0.00	C
ATOM	8712	O	ALA	915	9.485	70.539	33.169	1.00	0.00	O
ATOM	8713	N	ALA	916	11.293	69.214	33.397	1.00	0.00	N
ATOM	8714	HN	ALA	916	12.125	68.815	32.964	1.00	0.00	H
ATOM	8715	CA	ALA	916	11.051	69.020	34.798	1.00	0.00	C
ATOM	8716	CB	ALA	916	12.172	68.225	35.488	1.00	0.00	C
ATOM	8717	C	ALA	916	10.975	70.354	35.462	1.00	0.00	C
ATOM	8718	O	ALA	916	10.067	70.617	36.253	1.00	0.00	O
ATOM	8719	N	HIS	917	11.901	71.259	35.112	1.00	0.00	N
ATOM	8720	HN	HIS	917	12.581	71.048	34.382	1.00	0.00	H
ATOM	8721	CA	HIS	917	11.920	72.525	35.778	1.00	0.00	C
ATOM	8722	ND1	HIS	917	14.906	73.601	36.906	1.00	0.00	N
ATOM	8723	HD1	HIS	917	14.415	74.151	37.611	1.00	0.00	H
ATOM	8724	CG	HIS	917	14.397	73.164	35.704	1.00	0.00	C
ATOM	8725	CB	HIS	917	13.007	73.471	35.237	1.00	0.00	C
ATOM	8726	NE2	HIS	917	16.535	72.470	35.900	1.00	0.00	N
ATOM	8727	HE2	HIS	917	17.436	72.033	35.704	1.00	0.00	H
ATOM	8728	CD2	HIS	917	15.404	72.473	35.102	1.00	0.00	C
ATOM	8729	CE1	HIS	917	16.188	73.159	36.972	1.00	0.00	C

ATOM	8730	C	HIS	917	10.619	73.254	35.597	1.00	0.00	C
ATOM	8731	O	HIS	917	9.958	73.638	36.562	1.00	0.00	O
ATOM	8732	N	ILE	918	10.178	73.404	34.340	1.00	0.00	N
ATOM	8733	HN	ILE	918	10.674	72.944	33.576	1.00	0.00	H
ATOM	8734	CA	ILE	918	9.020	74.201	34.051	1.00	0.00	C
ATOM	8735	CB	ILE	918	8.765	74.287	32.559	1.00	0.00	C
ATOM	8736	CG1	ILE	918	7.601	75.234	32.204	1.00	0.00	C
ATOM	8737	CG2	ILE	918	8.597	72.862	32.014	1.00	0.00	C
ATOM	8738	CD1	ILE	918	6.214	74.702	32.564	1.00	0.00	C
ATOM	8739	C	ILE	918	7.847	73.623	34.769	1.00	0.00	C
ATOM	8740	O	ILE	918	6.945	74.353	35.178	1.00	0.00	O
ATOM	8741	N	ILE	919	7.822	72.286	34.908	1.00	0.00	N
ATOM	8742	HN	ILE	919	8.607	71.737	34.556	1.00	0.00	H
ATOM	8743	CA	ILE	919	6.723	71.606	35.538	1.00	0.00	C
ATOM	8744	CB	ILE	919	6.839	70.109	35.458	1.00	0.00	C
ATOM	8745	CG1	ILE	919	6.739	69.648	33.995	1.00	0.00	C
ATOM	8746	CG2	ILE	919	5.776	69.488	36.382	1.00	0.00	C
ATOM	8747	CD1	ILE	919	7.074	68.172	33.791	1.00	0.00	C
ATOM	8748	C	ILE	919	6.584	71.949	36.987	1.00	0.00	C
ATOM	8749	O	ILE	919	5.478	72.234	37.446	1.00	0.00	O
ATOM	8750	N	MET	920	7.688	71.954	37.754	1.00	0.00	N
ATOM	8751	HN	MET	920	8.607	71.794	37.342	1.00	0.00	H
ATOM	8752	CA	MET	920	7.549	72.189	39.166	1.00	0.00	C
ATOM	8753	CB	MET	920	8.916	72.223	39.870	1.00	0.00	C
ATOM	8754	CG	MET	920	8.845	72.410	41.386	1.00	0.00	C
ATOM	8755	SD	MET	920	10.469	72.483	42.202	1.00	0.00	S
ATOM	8756	CE	MET	920	10.931	70.773	41.801	1.00	0.00	C
ATOM	8757	C	MET	920	6.921	73.542	39.361	1.00	0.00	C
ATOM	8758	O	MET	920	6.019	73.732	40.180	1.00	0.00	O
ATOM	8759	N	ILE	921	7.372	74.521	38.564	1.00	0.00	N
ATOM	8760	HN	ILE	921	8.053	74.289	37.841	1.00	0.00	H
ATOM	8761	CA	ILE	921	6.934	75.887	38.687	1.00	0.00	C
ATOM	8762	CB	ILE	921	7.700	76.796	37.770	1.00	0.00	C
ATOM	8763	CG1	ILE	921	9.211	76.673	38.041	1.00	0.00	C
ATOM	8764	CG2	ILE	921	7.148	78.221	37.938	1.00	0.00	C
ATOM	8765	CD1	ILE	921	9.613	76.944	39.489	1.00	0.00	C
ATOM	8766	C	ILE	921	5.489	76.044	38.352	1.00	0.00	C
ATOM	8767	O	ILE	921	4.770	76.851	38.947	1.00	0.00	O
ATOM	8768	N	ILE	922	5.052	75.321	37.317	1.00	0.00	N
ATOM	8769	HN	ILE	922	5.698	74.698	36.832	1.00	0.00	H
ATOM	8770	CA	ILE	922	3.699	75.406	36.879	1.00	0.00	C
ATOM	8771	CB	ILE	922	3.434	74.733	35.561	1.00	0.00	C
ATOM	8772	CG1	ILE	922	2.053	75.154	35.034	1.00	0.00	C
ATOM	8773	CG2	ILE	922	3.587	73.216	35.731	1.00	0.00	C
ATOM	8774	CD1	ILE	922	1.799	74.760	33.579	1.00	0.00	C
ATOM	8775	C	ILE	922	2.775	74.832	37.896	1.00	0.00	C
ATOM	8776	O	ILE	922	1.625	75.250	37.977	1.00	0.00	O
ATOM	8777	N	GLU	923	3.209	73.814	38.656	1.00	0.00	N
ATOM	8778	HN	GLU	923	4.177	73.496	38.613	1.00	0.00	H
ATOM	8779	CA	GLU	923	2.257	73.190	39.533	1.00	0.00	C
ATOM	8780	CB	GLU	923	2.887	72.047	40.333	1.00	0.00	C
ATOM	8781	CG	GLU	923	3.269	70.871	39.437	1.00	0.00	C
ATOM	8782	CD	GLU	923	4.260	70.025	40.210	1.00	0.00	C
ATOM	8783	OE1	GLU	923	5.326	70.583	40.580	1.00	0.00	O
ATOM	8784	OE2	GLU	923	3.970	68.821	40.443	1.00	0.00	O
ATOM	8785	C	GLU	923	1.666	74.176	40.498	1.00	0.00	C
ATOM	8786	O	GLU	923	0.482	74.489	40.392	1.00	0.00	O
ATOM	8787	N	LYS	924	2.500	74.760	41.384	1.00	0.00	N
ATOM	8788	HN	LYS	924	3.484	74.493	41.339	1.00	0.00	H
ATOM	8789	CA	LYS	924	2.126	75.733	42.395	1.00	0.00	C
ATOM	8790	CB	LYS	924	2.457	77.182	41.981	1.00	0.00	C
ATOM	8791	CG	LYS	924	1.862	77.602	40.635	1.00	0.00	C
ATOM	8792	CD	LYS	924	0.339	77.711	40.647	1.00	0.00	C
ATOM	8793	CE	LYS	924	-0.250	78.260	39.347	1.00	0.00	C
ATOM	8794	NZ	LYS	924	-0.164	77.245	38.275	1.00	0.00	N
ATOM	8795	HZ1	LYS	924	-0.557	77.611	37.408	1.00	0.00	H
ATOM	8796	HZ2	LYS	924	-0.601	76.365	38.549	1.00	0.00	H
ATOM	8797	HZ3	LYS	924	0.790	76.907	38.147	1.00	0.00	H
ATOM	8798	C	LYS	924	0.689	75.654	42.927	1.00	0.00	C
ATOM	8799	O	LYS	924	0.026	74.620	42.852	1.00	0.00	O
ATOM	8800	N	THR	925	0.228	76.734	43.631	1.00	0.00	N
ATOM	8801	HN	THR	925	0.872	77.509	43.791	1.00	0.00	H
ATOM	8802	CA	THR	925	-1.122	76.848	44.166	1.00	0.00	C
ATOM	8803	CB	THR	925	-1.199	76.391	45.600	1.00	0.00	C

ATOM	8804	OG1	THR	925	-2.522	76.533	46.096	1.00	0.00	O
ATOM	8805	HG1	THR	925	-2.571	76.245	47.000	1.00	0.00	H
ATOM	8806	CG2	THR	925	-0.178	77.161	46.461	1.00	0.00	C
ATOM	8807	C	THR	925	-1.615	78.287	44.073	1.00	0.00	C
ATOM	8808	O	THR	925	-1.291	79.118	44.920	1.00	0.00	O
ATOM	8809	N	PRO	926	-2.483	78.586	43.127	1.00	0.00	N
ATOM	8810	CA	PRO	926	-2.934	79.938	42.834	1.00	0.00	C
ATOM	8811	CD	PRO	926	-3.392	77.582	42.602	1.00	0.00	C
ATOM	8812	CB	PRO	926	-4.095	79.782	41.853	1.00	0.00	C
ATOM	8813	CG	PRO	926	-4.632	78.369	42.145	1.00	0.00	C
ATOM	8814	C	PRO	926	-3.299	80.746	44.034	1.00	0.00	C
ATOM	8815	O	PRO	926	-2.887	81.898	44.150	1.00	0.00	O
ATOM	8816	N	LEU	927	-4.134	80.188	44.902	1.00	0.00	N
ATOM	8817	HN	LEU	927	-4.577	79.304	44.654	1.00	0.00	H
ATOM	8818	CA	LEU	927	-4.437	80.773	46.166	1.00	0.00	C
ATOM	8819	CB	LEU	927	-3.202	81.084	47.026	1.00	0.00	C
ATOM	8820	CG	LEU	927	-3.608	81.604	48.418	1.00	0.00	C
ATOM	8821	CD1	LEU	927	-4.402	80.539	49.191	1.00	0.00	C
ATOM	8822	CD2	LEU	927	-2.402	82.120	49.211	1.00	0.00	C
ATOM	8823	C	LEU	927	-5.262	82.034	46.076	1.00	0.00	C
ATOM	8824	O	LEU	927	-5.946	82.347	47.049	1.00	0.00	O
ATOM	8825	N	ILE	928	-5.242	82.818	44.964	1.00	0.00	N
ATOM	8826	HN	ILE	928	-4.693	82.569	44.141	1.00	0.00	H
ATOM	8827	CA	ILE	928	-6.044	84.028	45.011	1.00	0.00	C
ATOM	8828	CB	ILE	928	-5.251	85.155	45.646	1.00	0.00	C
ATOM	8829	CG1	ILE	928	-4.642	84.751	46.999	1.00	0.00	C
ATOM	8830	CG2	ILE	928	-6.160	86.371	45.816	1.00	0.00	C
ATOM	8831	CD1	ILE	928	-3.580	85.723	47.506	1.00	0.00	C
ATOM	8832	C	ILE	928	-6.377	84.495	43.606	1.00	0.00	C
ATOM	8833	O	ILE	928	-5.984	85.599	43.216	1.00	0.00	O
ATOM	8834	N	ASP	929	-7.048	83.677	42.767	1.00	0.00	N
ATOM	8835	HN	ASP	929	-7.314	82.732	43.045	1.00	0.00	H
ATOM	8836	CA	ASP	929	-7.372	84.197	41.461	1.00	0.00	C
ATOM	8837	CB	ASP	929	-7.623	83.077	40.438	1.00	0.00	C
ATOM	8838	CG	ASP	929	-7.581	83.681	39.042	1.00	0.00	C
ATOM	8839	OD1	ASP	929	-7.030	84.804	38.891	1.00	0.00	O
ATOM	8840	OD2	ASP	929	-8.100	83.020	38.104	1.00	0.00	O
ATOM	8841	C	ASP	929	-8.596	85.061	41.470	1.00	0.00	C
ATOM	8842	O	ASP	929	-8.548	86.286	41.361	1.00	0.00	O
ATOM	8843	N	SER	930	-9.747	84.400	41.690	1.00	0.00	N
ATOM	8844	HN	SER	930	-9.710	83.399	41.881	1.00	0.00	H
ATOM	8845	CA	SER	930	-11.021	85.051	41.665	1.00	0.00	C
ATOM	8846	CB	SER	930	-11.773	84.902	40.332	1.00	0.00	C
ATOM	8847	OG	SER	930	-13.023	85.572	40.397	1.00	0.00	O
ATOM	8848	HG	SER	930	-13.488	85.480	39.573	1.00	0.00	H
ATOM	8849	C	SER	930	-11.813	84.351	42.699	1.00	0.00	C
ATOM	8850	O	SER	930	-11.464	83.243	43.089	1.00	0.00	O
ATOM	8851	N	TYR	931	-12.843	85.019	43.233	1.00	0.00	N
ATOM	8852	HN	TYR	931	-13.019	85.980	42.939	1.00	0.00	H
ATOM	8853	CA	TYR	931	-13.702	84.419	44.205	1.00	0.00	C
ATOM	8854	CB	TYR	931	-13.147	84.428	45.651	1.00	0.00	C
ATOM	8855	CG	TYR	931	-11.847	83.700	45.744	1.00	0.00	C
ATOM	8856	CD1	TYR	931	-11.798	82.328	45.651	1.00	0.00	C
ATOM	8857	CD2	TYR	931	-10.673	84.393	45.937	1.00	0.00	C
ATOM	8858	CE1	TYR	931	-10.599	81.662	45.738	1.00	0.00	C
ATOM	8859	CE2	TYR	931	-9.470	83.731	46.027	1.00	0.00	C
ATOM	8860	CZ	TYR	931	-9.433	82.361	45.925	1.00	0.00	C
ATOM	8861	OH	TYR	931	-8.209	81.667	46.015	1.00	0.00	O
ATOM	8862	HH	TYR	931	-7.402	82.151	46.144	1.00	0.00	H
ATOM	8863	C	TYR	931	-14.875	85.345	44.249	1.00	0.00	C
ATOM	8864	O	TYR	931	-14.891	86.347	43.536	1.00	0.00	O
ATOM	8865	N	SER	932	-15.957	84.974	44.961	1.00	0.00	N
ATOM	8866	HN	SER	932	-16.046	84.016	45.299	1.00	0.00	H
ATOM	8867	CA	SER	932	-16.984	85.938	45.241	1.00	0.00	C
ATOM	8868	CB	SER	932	-18.360	85.278	45.439	1.00	0.00	C
ATOM	8869	OG	SER	932	-19.344	86.263	45.714	1.00	0.00	O
ATOM	8870	HG	SER	932	-20.193	85.856	45.836	1.00	0.00	H
ATOM	8871	C	SER	932	-16.624	86.661	46.511	1.00	0.00	C
ATOM	8872	O	SER	932	-16.295	87.848	46.521	1.00	0.00	O
ATOM	8873	N	THR	933	-16.746	85.906	47.630	1.00	0.00	N
ATOM	8874	HN	THR	933	-17.101	84.959	47.496	1.00	0.00	H
ATOM	8875	CA	THR	933	-16.435	86.279	48.982	1.00	0.00	C
ATOM	8876	CB	THR	933	-15.049	85.901	49.425	1.00	0.00	C
ATOM	8877	OG1	THR	933	-14.090	86.286	48.459	1.00	0.00	O

ATOM	8878	HG1	THR	933	-13.214	86.047	48.739	1.00	0.00	H
ATOM	8879	CG2	THR	933	-14.998	84.378	49.637	1.00	0.00	C
ATOM	8880	C	THR	933	-16.797	87.702	49.220	1.00	0.00	C
ATOM	8881	O	THR	933	-16.135	88.409	49.980	1.00	0.00	O
ATOM	8882	N	GLU	934	-17.919	88.113	48.600	1.00	0.00	N
ATOM	8883	HN	GLU	934	-18.440	87.421	48.061	1.00	0.00	H
ATOM	8884	CA	GLU	934	-18.437	89.448	48.639	1.00	0.00	C
ATOM	8885	CB	GLU	934	-17.374	90.554	48.836	1.00	0.00	C
ATOM	8886	CG	GLU	934	-16.187	90.517	47.868	1.00	0.00	C
ATOM	8887	CD	GLU	934	-16.489	91.409	46.673	1.00	0.00	C
ATOM	8888	OE1	GLU	934	-16.296	92.649	46.795	1.00	0.00	O
ATOM	8889	OE2	GLU	934	-16.931	90.863	45.628	1.00	0.00	O
ATOM	8890	C	GLU	934	-19.119	89.635	47.331	1.00	0.00	C
ATOM	8891	O	GLU	934	-19.424	88.657	46.660	1.00	0.00	O
ATOM	8892	N	GLY	935	-19.248	90.886	46.862	1.00	0.00	N
ATOM	8893	HN	GLY	935	-18.749	91.643	47.329	1.00	0.00	H
ATOM	8894	CA	GLY	935	-20.063	91.191	45.728	1.00	0.00	C
ATOM	8895	C	GLY	935	-19.993	92.672	45.610	1.00	0.00	C
ATOM	8896	O	GLY	935	-20.729	93.292	44.844	1.00	0.00	O
ATOM	8897	N	LEU	936	-19.076	93.265	46.401	1.00	0.00	N
ATOM	8898	HN	LEU	936	-18.544	92.691	47.055	1.00	0.00	H
ATOM	8899	CA	LEU	936	-18.824	94.676	46.354	1.00	0.00	C
ATOM	8900	CB	LEU	936	-18.230	95.122	44.996	1.00	0.00	C
ATOM	8901	CG	LEU	936	-17.551	96.518	44.919	1.00	0.00	C
ATOM	8902	CD1	LEU	936	-17.227	96.870	43.457	1.00	0.00	C
ATOM	8903	CD2	LEU	936	-18.297	97.647	45.651	1.00	0.00	C
ATOM	8904	C	LEU	936	-20.144	95.345	46.562	1.00	0.00	C
ATOM	8905	O	LEU	936	-20.581	96.184	45.778	1.00	0.00	O
ATOM	8906	N	MET	937	-20.840	94.965	47.646	1.00	0.00	N
ATOM	8907	HN	MET	937	-20.465	94.257	48.277	1.00	0.00	H
ATOM	8908	CA	MET	937	-22.115	95.564	47.907	1.00	0.00	C
ATOM	8909	CB	MET	937	-22.756	95.051	49.205	1.00	0.00	C
ATOM	8910	CG	MET	937	-23.223	93.597	49.093	1.00	0.00	C
ATOM	8911	SD	MET	937	-21.890	92.388	48.824	1.00	0.00	S
ATOM	8912	CE	MET	937	-21.100	92.616	50.442	1.00	0.00	C
ATOM	8913	C	MET	937	-21.924	97.052	47.991	1.00	0.00	C
ATOM	8914	O	MET	937	-20.874	97.559	48.378	1.00	0.00	O
ATOM	8915	N	PRO	938	-22.946	97.757	47.595	1.00	0.00	N
ATOM	8916	CA	PRO	938	-22.878	99.192	47.526	1.00	0.00	C
ATOM	8917	CD	PRO	938	-23.870	97.216	46.611	1.00	0.00	C
ATOM	8918	CB	PRO	938	-24.141	99.626	46.788	1.00	0.00	C
ATOM	8919	CG	PRO	938	-24.437	98.434	45.860	1.00	0.00	C
ATOM	8920	C	PRO	938	-22.665	99.858	48.851	1.00	0.00	C
ATOM	8921	O	PRO	938	-22.411	101.061	48.849	1.00	0.00	O
ATOM	8922	N	ASN	939	-22.886	99.128	49.966	1.00	0.00	N
ATOM	8923	HN	ASN	939	-23.214	98.172	49.826	1.00	0.00	H
ATOM	8924	CA	ASN	939	-22.709	99.553	51.337	1.00	0.00	C
ATOM	8925	CB	ASN	939	-23.604	98.783	52.322	1.00	0.00	C
ATOM	8926	CG	ASN	939	-23.239	97.310	52.248	1.00	0.00	C
ATOM	8927	OD1	ASN	939	-23.597	96.619	51.296	1.00	0.00	O
ATOM	8928	ND2	ASN	939	-22.505	96.811	53.279	1.00	0.00	N
ATOM	8929	1HD2	ASN	939	-22.208	97.384	54.069	1.00	0.00	H
ATOM	8930	2HD2	ASN	939	-22.260	95.822	53.229	1.00	0.00	H
ATOM	8931	C	ASN	939	-21.288	99.437	51.845	1.00	0.00	C
ATOM	8932	O	ASN	939	-20.898	100.159	52.761	1.00	0.00	O
ATOM	8933	N	THR	940	-20.473	98.551	51.240	1.00	0.00	N
ATOM	8934	HN	THR	940	-20.814	98.151	50.366	1.00	0.00	H
ATOM	8935	CA	THR	940	-19.173	98.100	51.683	1.00	0.00	C
ATOM	8936	CB	THR	940	-18.564	97.097	50.751	1.00	0.00	C
ATOM	8937	OG1	THR	940	-17.422	96.508	51.353	1.00	0.00	O
ATOM	8938	HG1	THR	940	-17.036	95.872	50.762	1.00	0.00	H
ATOM	8939	CG2	THR	940	-18.171	97.808	49.444	1.00	0.00	C
ATOM	8940	C	THR	940	-18.200	99.233	51.822	1.00	0.00	C
ATOM	8941	O	THR	940	-17.043	99.031	52.178	1.00	0.00	O
ATOM	8942	N	LEU	941	-18.632	100.438	51.449	1.00	0.00	N
ATOM	8943	HN	LEU	941	-19.607	100.488	51.154	1.00	0.00	H
ATOM	8944	CA	LEU	941	-17.903	101.672	51.409	1.00	0.00	C
ATOM	8945	CB	LEU	941	-18.793	102.779	50.833	1.00	0.00	C
ATOM	8946	CG	LEU	941	-19.311	102.407	49.433	1.00	0.00	C
ATOM	8947	CD1	LEU	941	-20.365	103.402	48.941	1.00	0.00	C
ATOM	8948	CD2	LEU	941	-18.154	102.228	48.438	1.00	0.00	C
ATOM	8949	C	LEU	941	-17.396	102.141	52.755	1.00	0.00	C
ATOM	8950	O	LEU	941	-16.436	102.909	52.781	1.00	0.00	O
ATOM	8951	N	GLU	942	-18.008	101.754	53.901	1.00	0.00	N

ATOM	8952	HN	GLU	942	-18.738	101.042	53.879	1.00	0.00	H
ATOM	8953	CA	GLU	942	-17.616	102.361	55.158	1.00	0.00	C
ATOM	8954	CB	GLU	942	-18.323	101.758	56.382	1.00	0.00	C
ATOM	8955	CG	GLU	942	-19.714	102.347	56.613	1.00	0.00	C
ATOM	8956	CD	GLU	942	-19.487	103.784	57.065	1.00	0.00	C
ATOM	8957	OE1	GLU	942	-18.293	104.168	57.180	1.00	0.00	O
ATOM	8958	OE2	GLU	942	-20.487	104.514	57.299	1.00	0.00	O
ATOM	8959	C	GLU	942	-16.134	102.275	55.407	1.00	0.00	C
ATOM	8960	O	GLU	942	-15.480	103.315	55.470	1.00	0.00	O
ATOM	8961	N	GLY	943	-15.533	101.069	55.460	1.00	0.00	N
ATOM	8962	HN	GLY	943	-16.077	100.208	55.396	1.00	0.00	H
ATOM	8963	CA	GLY	943	-14.104	101.032	55.610	1.00	0.00	C
ATOM	8964	C	GLY	943	-13.629	101.012	57.039	1.00	0.00	C
ATOM	8965	O	GLY	943	-12.601	101.616	57.347	1.00	0.00	O
ATOM	8966	N	ASN	944	-14.350	100.334	57.956	1.00	0.00	N
ATOM	8967	HN	ASN	944	-15.242	99.916	57.692	1.00	0.00	H
ATOM	8968	CA	ASN	944	-13.866	100.197	59.309	1.00	0.00	C
ATOM	8969	CB	ASN	944	-14.983	100.066	60.361	1.00	0.00	C
ATOM	8970	CG	ASN	944	-15.757	101.374	60.462	1.00	0.00	C
ATOM	8971	OD1	ASN	944	-15.426	102.366	59.816	1.00	0.00	O
ATOM	8972	ND2	ASN	944	-16.818	101.380	61.313	1.00	0.00	N
ATOM	8973	1HD2	ASN	944	-17.336	102.256	61.381	1.00	0.00	H
ATOM	8974	2HD2	ASN	944	-17.093	100.557	61.849	1.00	0.00	H
ATOM	8975	C	ASN	944	-13.096	98.903	59.355	1.00	0.00	C
ATOM	8976	O	ASN	944	-13.645	97.850	59.035	1.00	0.00	O
ATOM	8977	N	VAL	945	-11.803	98.938	59.762	1.00	0.00	N
ATOM	8978	HN	VAL	945	-11.400	99.813	60.097	1.00	0.00	H
ATOM	8979	CA	VAL	945	-10.993	97.741	59.724	1.00	0.00	C
ATOM	8980	CB	VAL	945	-9.570	98.009	59.318	1.00	0.00	C
ATOM	8981	CG1	VAL	945	-8.791	96.682	59.342	1.00	0.00	C
ATOM	8982	CG2	VAL	945	-9.566	98.715	57.949	1.00	0.00	C
ATOM	8983	C	VAL	945	-10.957	97.043	61.057	1.00	0.00	C
ATOM	8984	O	VAL	945	-10.827	97.673	62.106	1.00	0.00	O
ATOM	8985	N	THR	946	-11.054	95.692	61.061	1.00	0.00	N
ATOM	8986	HN	THR	946	-11.150	95.166	60.193	1.00	0.00	H
ATOM	8987	CA	THR	946	-11.016	95.029	62.333	1.00	0.00	C
ATOM	8988	CB	THR	946	-12.328	94.434	62.775	1.00	0.00	C
ATOM	8989	OG1	THR	946	-12.262	94.086	64.151	1.00	0.00	O
ATOM	8990	HG1	THR	946	-12.072	94.860	64.668	1.00	0.00	H
ATOM	8991	CG2	THR	946	-12.634	93.185	61.941	1.00	0.00	C
ATOM	8992	C	THR	946	-9.976	93.955	62.343	1.00	0.00	C
ATOM	8993	O	THR	946	-9.932	93.104	61.459	1.00	0.00	O
ATOM	8994	N	PHE	947	-9.086	93.978	63.356	1.00	0.00	N
ATOM	8995	HN	PHE	947	-9.105	94.744	64.030	1.00	0.00	H
ATOM	8996	CA	PHE	947	-8.114	92.934	63.492	1.00	0.00	C
ATOM	8997	CB	PHE	947	-6.644	93.389	63.582	1.00	0.00	C
ATOM	8998	CG	PHE	947	-6.090	93.578	62.215	1.00	0.00	C
ATOM	8999	CD1	PHE	947	-5.831	92.470	61.444	1.00	0.00	C
ATOM	9000	CD2	PHE	947	-5.795	94.825	61.715	1.00	0.00	C
ATOM	9001	CE1	PHE	947	-5.310	92.594	60.181	1.00	0.00	C
ATOM	9002	CE2	PHE	947	-5.272	94.955	60.449	1.00	0.00	C
ATOM	9003	CZ	PHE	947	-5.031	93.841	59.679	1.00	0.00	C
ATOM	9004	C	PHE	947	-8.379	92.221	64.773	1.00	0.00	C
ATOM	9005	O	PHE	947	-8.378	92.819	65.850	1.00	0.00	O
ATOM	9006	N	GLY	948	-8.578	90.894	64.693	1.00	0.00	N
ATOM	9007	HN	GLY	948	-8.535	90.406	63.798	1.00	0.00	H
ATOM	9008	CA	GLY	948	-8.852	90.193	65.907	1.00	0.00	C
ATOM	9009	C	GLY	948	-8.024	88.949	65.965	1.00	0.00	C
ATOM	9010	O	GLY	948	-7.977	88.147	65.035	1.00	0.00	O
ATOM	9011	N	GLU	949	-7.327	88.801	67.100	1.00	0.00	N
ATOM	9012	HN	GLU	949	-7.355	89.583	67.754	1.00	0.00	H
ATOM	9013	CA	GLU	949	-6.548	87.669	67.496	1.00	0.00	C
ATOM	9014	CB	GLU	949	-7.344	86.353	67.450	1.00	0.00	C
ATOM	9015	CG	GLU	949	-8.509	86.308	68.440	1.00	0.00	C
ATOM	9016	CD	GLU	949	-9.612	87.203	67.895	1.00	0.00	C
ATOM	9017	OE1	GLU	949	-9.941	87.068	66.686	1.00	0.00	O
ATOM	9018	OE2	GLU	949	-10.135	88.039	68.679	1.00	0.00	O
ATOM	9019	C	GLU	949	-5.349	87.500	66.626	1.00	0.00	C
ATOM	9020	O	GLU	949	-4.409	86.851	67.080	1.00	0.00	O
ATOM	9021	N	VAL	950	-5.288	88.233	65.483	1.00	0.00	N
ATOM	9022	HN	VAL	950	-5.991	88.961	65.355	1.00	0.00	H
ATOM	9023	CA	VAL	950	-4.309	88.064	64.436	1.00	0.00	C
ATOM	9024	CB	VAL	950	-4.141	89.274	63.562	1.00	0.00	C
ATOM	9025	CG1	VAL	950	-5.384	89.393	62.681	1.00	0.00	C

ATOM	9026	CG2	VAL	950	-3.949	90.516	64.447	1.00	0.00	C
ATOM	9027	C	VAL	950	-2.968	87.648	64.948	1.00	0.00	C
ATOM	9028	O	VAL	950	-2.282	88.370	65.669	1.00	0.00	O
ATOM	9029	N	VAL	951	-2.597	86.406	64.578	1.00	0.00	N
ATOM	9030	HN	VAL	951	-3.229	85.870	63.983	1.00	0.00	H
ATOM	9031	CA	VAL	951	-1.362	85.800	64.976	1.00	0.00	C
ATOM	9032	CB	VAL	951	-1.583	84.566	65.795	1.00	0.00	C
ATOM	9033	CG1	VAL	951	-0.220	83.994	66.172	1.00	0.00	C
ATOM	9034	CG2	VAL	951	-2.474	84.902	66.999	1.00	0.00	C
ATOM	9035	C	VAL	951	-0.716	85.357	63.696	1.00	0.00	C
ATOM	9036	O	VAL	951	-1.395	84.771	62.856	1.00	0.00	O
ATOM	9037	N	PHE	952	0.601	85.614	63.493	1.00	0.00	N
ATOM	9038	HN	PHE	952	1.180	86.050	64.211	1.00	0.00	H
ATOM	9039	CA	PHE	952	1.140	85.238	62.208	1.00	0.00	C
ATOM	9040	CB	PHE	952	0.420	86.026	61.096	1.00	0.00	C
ATOM	9041	CG	PHE	952	1.275	86.094	59.883	1.00	0.00	C
ATOM	9042	CD1	PHE	952	1.333	85.067	58.969	1.00	0.00	C
ATOM	9043	CD2	PHE	952	2.020	87.231	59.668	1.00	0.00	C
ATOM	9044	CE1	PHE	952	2.137	85.179	57.859	1.00	0.00	C
ATOM	9045	CE2	PHE	952	2.824	87.348	58.562	1.00	0.00	C
ATOM	9046	CZ	PHE	952	2.883	86.317	57.655	1.00	0.00	C
ATOM	9047	C	PHE	952	2.626	85.473	62.066	1.00	0.00	C
ATOM	9048	O	PHE	952	3.179	86.419	62.627	1.00	0.00	O
ATOM	9049	N	ASN	953	3.308	84.591	61.284	1.00	0.00	N
ATOM	9050	HN	ASN	953	2.806	83.787	60.907	1.00	0.00	H
ATOM	9051	CA	ASN	953	4.708	84.739	60.963	1.00	0.00	C
ATOM	9052	CB	ASN	953	5.657	83.898	61.828	1.00	0.00	C
ATOM	9053	CG	ASN	953	7.074	84.284	61.423	1.00	0.00	C
ATOM	9054	OD1	ASN	953	7.729	83.578	60.658	1.00	0.00	O
ATOM	9055	ND2	ASN	953	7.548	85.459	61.917	1.00	0.00	N
ATOM	9056	1HD2	ASN	953	7.005	86.045	62.551	1.00	0.00	H
ATOM	9057	2HD2	ASN	953	8.497	85.717	61.646	1.00	0.00	H
ATOM	9058	C	ASN	953	4.934	84.308	59.538	1.00	0.00	C
ATOM	9059	O	ASN	953	4.670	83.162	59.174	1.00	0.00	O
ATOM	9060	N	TYR	954	5.496	85.209	58.700	1.00	0.00	N
ATOM	9061	HN	TYR	954	5.780	86.121	59.057	1.00	0.00	H
ATOM	9062	CA	TYR	954	5.698	84.894	57.309	1.00	0.00	C
ATOM	9063	CB	TYR	954	6.294	86.049	56.473	1.00	0.00	C
ATOM	9064	CG	TYR	954	7.623	86.461	57.014	1.00	0.00	C
ATOM	9065	CD1	TYR	954	7.711	87.191	58.178	1.00	0.00	C
ATOM	9066	CD2	TYR	954	8.779	86.146	56.338	1.00	0.00	C
ATOM	9067	CE1	TYR	954	8.935	87.580	58.672	1.00	0.00	C
ATOM	9068	CE2	TYR	954	10.005	86.533	56.826	1.00	0.00	C
ATOM	9069	CZ	TYR	954	10.086	87.249	57.995	1.00	0.00	C
ATOM	9070	OH	TYR	954	11.345	87.645	58.495	1.00	0.00	O
ATOM	9071	HH	TYR	954	12.140	87.416	58.028	1.00	0.00	H
ATOM	9072	C	TYR	954	6.584	83.703	57.230	1.00	0.00	C
ATOM	9073	O	TYR	954	7.614	83.643	57.897	1.00	0.00	O
ATOM	9074	N	PRO	955	6.195	82.774	56.388	1.00	0.00	N
ATOM	9075	CA	PRO	955	6.793	81.473	56.283	1.00	0.00	C
ATOM	9076	CD	PRO	955	5.123	82.972	55.429	1.00	0.00	C
ATOM	9077	CB	PRO	955	6.246	80.858	54.996	1.00	0.00	C
ATOM	9078	CG	PRO	955	4.900	81.582	54.801	1.00	0.00	C
ATOM	9079	C	PRO	955	8.276	81.464	56.403	1.00	0.00	C
ATOM	9080	O	PRO	955	9.010	81.664	55.437	1.00	0.00	O
ATOM	9081	N	THR	956	8.677	81.259	57.662	1.00	0.00	N
ATOM	9082	HN	THR	956	7.912	81.208	58.335	1.00	0.00	H
ATOM	9083	CA	THR	956	9.965	81.098	58.243	1.00	0.00	C
ATOM	9084	CB	THR	956	10.839	82.305	58.086	1.00	0.00	C
ATOM	9085	OG1	THR	956	12.136	82.046	58.605	1.00	0.00	O
ATOM	9086	HG1	THR	956	12.690	82.811	58.505	1.00	0.00	H
ATOM	9087	CG2	THR	956	10.191	83.488	58.824	1.00	0.00	C
ATOM	9088	C	THR	956	9.549	81.021	59.674	1.00	0.00	C
ATOM	9089	O	THR	956	10.278	81.394	60.592	1.00	0.00	O
ATOM	9090	N	ARG	957	8.363	80.406	59.854	1.00	0.00	N
ATOM	9091	HN	ARG	957	7.992	79.929	59.032	1.00	0.00	H
ATOM	9092	CA	ARG	957	7.544	80.323	61.031	1.00	0.00	C
ATOM	9093	CB	ARG	957	6.311	79.423	60.821	1.00	0.00	C
ATOM	9094	CG	ARG	957	5.367	79.966	59.744	1.00	0.00	C
ATOM	9095	CD	ARG	957	4.231	79.021	59.341	1.00	0.00	C
ATOM	9096	NE	ARG	957	3.034	79.359	60.161	1.00	0.00	N
ATOM	9097	HE	ARG	957	2.441	80.146	59.896	1.00	0.00	H
ATOM	9098	CZ	ARG	957	2.729	78.618	61.266	1.00	0.00	C
ATOM	9099	NH1	ARG	957	3.500	77.542	61.596	1.00	0.00	N

ATOM	9100	1HH1	ARG	957	3.272	76.988	62.422	1.00	0.00	H
ATOM	9101	2HH1	ARG	957	4.308	77.297	61.024	1.00	0.00	H
ATOM	9102	NH2	ARG	957	1.648	78.945	62.031	1.00	0.00	N
ATOM	9103	1HH2	ARG	957	1.420	78.391	62.857	1.00	0.00	H
ATOM	9104	2HH2	ARG	957	1.072	79.749	61.784	1.00	0.00	H
ATOM	9105	C	ARG	957	8.318	79.797	62.202	1.00	0.00	C
ATOM	9106	O	ARG	957	7.916	80.090	63.325	1.00	0.00	O
ATOM	9107	N	PRO	958	9.362	79.026	62.074	1.00	0.00	N
ATOM	9108	CA	PRO	958	10.058	78.612	63.260	1.00	0.00	C
ATOM	9109	CD	PRO	958	9.530	78.045	61.016	1.00	0.00	C
ATOM	9110	CB	PRO	958	11.110	77.598	62.798	1.00	0.00	C
ATOM	9111	CG	PRO	958	10.954	77.531	61.262	1.00	0.00	C
ATOM	9112	C	PRO	958	10.588	79.795	64.012	1.00	0.00	C
ATOM	9113	O	PRO	958	10.868	79.675	65.203	1.00	0.00	O
ATOM	9114	N	ASP	959	10.723	80.941	63.329	1.00	0.00	N
ATOM	9115	HN	ASP	959	10.491	80.929	62.336	1.00	0.00	H
ATOM	9116	CA	ASP	959	11.169	82.182	63.891	1.00	0.00	C
ATOM	9117	CB	ASP	959	11.377	83.285	62.838	1.00	0.00	C
ATOM	9118	CG	ASP	959	12.085	84.457	63.509	1.00	0.00	C
ATOM	9119	OD1	ASP	959	12.543	84.291	64.671	1.00	0.00	O
ATOM	9120	OD2	ASP	959	12.180	85.536	62.865	1.00	0.00	O
ATOM	9121	C	ASP	959	10.093	82.650	64.820	1.00	0.00	C
ATOM	9122	O	ASP	959	10.208	83.690	65.464	1.00	0.00	O
ATOM	9123	N	ILE	960	8.941	81.958	64.830	1.00	0.00	N
ATOM	9124	HN	ILE	960	8.834	81.124	64.252	1.00	0.00	H
ATOM	9125	CA	ILE	960	7.866	82.407	65.663	1.00	0.00	C
ATOM	9126	CB	ILE	960	8.235	82.700	67.093	1.00	0.00	C
ATOM	9127	CG1	ILE	960	8.691	81.409	67.798	1.00	0.00	C
ATOM	9128	CG2	ILE	960	7.033	83.377	67.776	1.00	0.00	C
ATOM	9129	CD1	ILE	960	9.324	81.650	69.167	1.00	0.00	C
ATOM	9130	C	ILE	960	7.323	83.640	65.019	1.00	0.00	C
ATOM	9131	O	ILE	960	8.017	84.341	64.284	1.00	0.00	O
ATOM	9132	N	PRO	961	6.055	83.844	65.211	1.00	0.00	N
ATOM	9133	CA	PRO	961	5.389	84.968	64.605	1.00	0.00	C
ATOM	9134	CD	PRO	961	5.175	82.691	65.331	1.00	0.00	C
ATOM	9135	CB	PRO	961	3.901	84.637	64.683	1.00	0.00	C
ATOM	9136	CG	PRO	961	3.856	83.102	64.669	1.00	0.00	C
ATOM	9137	C	PRO	961	5.701	86.327	65.163	1.00	0.00	C
ATOM	9138	O	PRO	961	6.061	86.449	66.333	1.00	0.00	O
ATOM	9139	N	VAL	962	5.619	87.350	64.286	1.00	0.00	N
ATOM	9140	HN	VAL	962	5.443	87.092	63.315	1.00	0.00	H
ATOM	9141	CA	VAL	962	5.749	88.756	64.549	1.00	0.00	C
ATOM	9142	CB	VAL	962	5.919	89.539	63.280	1.00	0.00	C
ATOM	9143	CG1	VAL	962	6.044	91.025	63.633	1.00	0.00	C
ATOM	9144	CG2	VAL	962	7.104	88.969	62.484	1.00	0.00	C
ATOM	9145	C	VAL	962	4.475	89.231	65.180	1.00	0.00	C
ATOM	9146	O	VAL	962	4.454	90.261	65.851	1.00	0.00	O
ATOM	9147	N	LEU	963	3.357	88.538	64.878	1.00	0.00	N
ATOM	9148	HN	LEU	963	3.421	87.728	64.262	1.00	0.00	H
ATOM	9149	CA	LEU	963	2.079	88.922	65.409	1.00	0.00	C
ATOM	9150	CB	LEU	963	0.990	89.111	64.335	1.00	0.00	C
ATOM	9151	CG	LEU	963	1.331	90.195	63.298	1.00	0.00	C
ATOM	9152	CD1	LEU	963	1.536	91.562	63.971	1.00	0.00	C
ATOM	9153	CD2	LEU	963	2.514	89.772	62.413	1.00	0.00	C
ATOM	9154	C	LEU	963	1.606	87.811	66.281	1.00	0.00	C
ATOM	9155	O	LEU	963	1.291	86.723	65.803	1.00	0.00	O
ATOM	9156	N	GLN	964	1.524	88.068	67.597	1.00	0.00	N
ATOM	9157	HN	GLN	964	1.745	88.998	67.951	1.00	0.00	H
ATOM	9158	CA	GLN	964	1.126	87.034	68.498	1.00	0.00	C
ATOM	9159	CB	GLN	964	2.238	86.746	69.512	1.00	0.00	C
ATOM	9160	CG	GLN	964	1.907	85.661	70.525	1.00	0.00	C
ATOM	9161	CD	GLN	964	3.069	85.613	71.503	1.00	0.00	C
ATOM	9162	OE1	GLN	964	4.227	85.508	71.101	1.00	0.00	O
ATOM	9163	NE2	GLN	964	2.760	85.711	72.824	1.00	0.00	N
ATOM	9164	1HE2	GLN	964	3.540	85.679	73.480	1.00	0.00	H
ATOM	9165	2HE2	GLN	964	1.800	85.798	73.157	1.00	0.00	H
ATOM	9166	C	GLN	964	-0.053	87.516	69.284	1.00	0.00	C
ATOM	9167	O	GLN	964	0.118	88.098	70.354	1.00	0.00	O
ATOM	9168	N	GLY	965	-1.285	87.231	68.809	1.00	0.00	N
ATOM	9169	HN	GLY	965	-1.386	86.734	67.924	1.00	0.00	H
ATOM	9170	CA	GLY	965	-2.455	87.625	69.546	1.00	0.00	C
ATOM	9171	C	GLY	965	-2.689	89.103	69.428	1.00	0.00	C
ATOM	9172	O	GLY	965	-2.866	89.786	70.436	1.00	0.00	O
ATOM	9173	N	LEU	966	-2.707	89.634	68.188	1.00	0.00	N

ATOM	9174	HN	LEU	966	-2.600	89.021	67.379	1.00	0.00	H
ATOM	9175	CA	LEU	966	-2.874	91.049	67.985	1.00	0.00	C
ATOM	9176	CB	LEU	966	-2.040	91.571	66.804	1.00	0.00	C
ATOM	9177	CG	LEU	966	-2.203	93.077	66.553	1.00	0.00	C
ATOM	9178	CD1	LEU	966	-1.711	93.887	67.759	1.00	0.00	C
ATOM	9179	CD2	LEU	966	-1.536	93.496	65.233	1.00	0.00	C
ATOM	9180	C	LEU	966	-4.309	91.382	67.682	1.00	0.00	C
ATOM	9181	O	LEU	966	-5.005	90.616	67.017	1.00	0.00	O
ATOM	9182	N	SER	967	-4.796	92.539	68.199	1.00	0.00	N
ATOM	9183	HN	SER	967	-4.201	93.105	68.805	1.00	0.00	H
ATOM	9184	CA	SER	967	-6.135	92.984	67.910	1.00	0.00	C
ATOM	9185	CB	SER	967	-7.186	92.397	68.867	1.00	0.00	C
ATOM	9186	OG	SER	967	-7.235	90.985	68.724	1.00	0.00	O
ATOM	9187	HG	SER	967	-7.884	90.622	69.315	1.00	0.00	H
ATOM	9188	C	SER	967	-6.217	94.489	68.019	1.00	0.00	C
ATOM	9189	O	SER	967	-5.918	95.069	69.063	1.00	0.00	O
ATOM	9190	N	LEU	968	-6.657	95.157	66.927	1.00	0.00	N
ATOM	9191	HN	LEU	968	-6.894	94.618	66.094	1.00	0.00	H
ATOM	9192	CA	LEU	968	-6.808	96.591	66.878	1.00	0.00	C
ATOM	9193	CB	LEU	968	-5.637	97.325	66.203	1.00	0.00	C
ATOM	9194	CG	LEU	968	-4.255	96.964	66.775	1.00	0.00	C
ATOM	9195	CD1	LEU	968	-4.166	97.251	68.281	1.00	0.00	C
ATOM	9196	CD2	LEU	968	-3.866	95.528	66.398	1.00	0.00	C
ATOM	9197	C	LEU	968	-7.997	96.845	66.001	1.00	0.00	C
ATOM	9198	O	LEU	968	-8.729	95.920	65.653	1.00	0.00	O
ATOM	9199	N	GLU	969	-8.249	98.124	65.654	1.00	0.00	N
ATOM	9200	HN	GLU	969	-7.668	98.876	66.025	1.00	0.00	H
ATOM	9201	CA	GLU	969	-9.334	98.430	64.762	1.00	0.00	C
ATOM	9202	CB	GLU	969	-10.708	98.478	65.433	1.00	0.00	C
ATOM	9203	CG	GLU	969	-10.825	99.727	66.308	1.00	0.00	C
ATOM	9204	CD	GLU	969	-12.283	99.975	66.644	1.00	0.00	C
ATOM	9205	OE1	GLU	969	-13.142	99.889	65.725	1.00	0.00	O
ATOM	9206	OE2	GLU	969	-12.553	100.266	67.837	1.00	0.00	O
ATOM	9207	C	GLU	969	-9.145	99.843	64.315	1.00	0.00	C
ATOM	9208	O	GLU	969	-8.285	100.562	64.822	1.00	0.00	O
ATOM	9209	N	VAL	970	-9.949	100.271	63.323	1.00	0.00	N
ATOM	9210	HN	VAL	970	-10.596	99.622	62.876	1.00	0.00	H
ATOM	9211	CA	VAL	970	-9.896	101.637	62.895	1.00	0.00	C
ATOM	9212	CB	VAL	970	-8.935	101.852	61.752	1.00	0.00	C
ATOM	9213	CG1	VAL	970	-9.430	101.086	60.513	1.00	0.00	C
ATOM	9214	CG2	VAL	970	-8.755	103.361	61.527	1.00	0.00	C
ATOM	9215	C	VAL	970	-11.276	102.031	62.451	1.00	0.00	C
ATOM	9216	O	VAL	970	-11.910	101.340	61.654	1.00	0.00	O
ATOM	9217	N	LYS	971	-11.762	103.193	62.932	1.00	0.00	N
ATOM	9218	HN	LYS	971	-11.176	103.747	63.557	1.00	0.00	H
ATOM	9219	CA	LYS	971	-13.072	103.684	62.600	1.00	0.00	C
ATOM	9220	CB	LYS	971	-13.472	104.946	63.380	1.00	0.00	C
ATOM	9221	CG	LYS	971	-13.649	104.702	64.879	1.00	0.00	C
ATOM	9222	CD	LYS	971	-12.342	104.357	65.597	1.00	0.00	C
ATOM	9223	CE	LYS	971	-12.506	104.139	67.102	1.00	0.00	C
ATOM	9224	NZ	LYS	971	-11.203	103.781	67.703	1.00	0.00	N
ATOM	9225	HZ1	LYS	971	-11.312	103.636	68.707	1.00	0.00	H
ATOM	9226	HZ2	LYS	971	-10.482	104.470	67.492	1.00	0.00	H
ATOM	9227	HZ3	LYS	971	-10.777	102.976	67.243	1.00	0.00	H
ATOM	9228	C	LYS	971	-13.076	104.030	61.145	1.00	0.00	C
ATOM	9229	O	LYS	971	-12.256	103.532	60.376	1.00	0.00	O
ATOM	9230	N	LYS	972	-14.053	104.847	60.704	1.00	0.00	N
ATOM	9231	HN	LYS	972	-14.751	105.230	61.341	1.00	0.00	H
ATOM	9232	CA	LYS	972	-14.072	105.156	59.305	1.00	0.00	C
ATOM	9233	CB	LYS	972	-15.414	104.841	58.613	1.00	0.00	C
ATOM	9234	CG	LYS	972	-16.633	105.589	59.159	1.00	0.00	C
ATOM	9235	CD	LYS	972	-16.738	107.049	58.718	1.00	0.00	C
ATOM	9236	CE	LYS	972	-17.295	107.218	57.303	1.00	0.00	C
ATOM	9237	NZ	LYS	972	-17.485	108.652	56.995	1.00	0.00	N
ATOM	9238	HZ1	LYS	972	-17.856	108.765	56.052	1.00	0.00	H
ATOM	9239	HZ2	LYS	972	-16.628	109.188	57.133	1.00	0.00	H
ATOM	9240	HZ3	LYS	972	-18.067	109.117	57.691	1.00	0.00	H
ATOM	9241	C	LYS	972	-13.720	106.595	59.084	1.00	0.00	C
ATOM	9242	O	LYS	972	-13.704	107.409	60.004	1.00	0.00	O
ATOM	9243	N	GLY	973	-13.311	106.905	57.839	1.00	0.00	N
ATOM	9244	HN	GLY	973	-13.195	106.147	57.166	1.00	0.00	H
ATOM	9245	CA	GLY	973	-13.029	108.244	57.408	1.00	0.00	C
ATOM	9246	C	GLY	973	-12.041	108.880	58.339	1.00	0.00	C
ATOM	9247	O	GLY	973	-12.003	110.105	58.439	1.00	0.00	O

ATOM	9248	N	GLN	974	-11.190	108.084	59.020	1.00	0.00	N
ATOM	9249	HN	GLN	974	-11.168	107.081	58.836	1.00	0.00	H
ATOM	9250	CA	GLN	974	-10.314	108.658	60.007	1.00	0.00	C
ATOM	9251	CB	GLN	974	-10.870	108.503	61.437	1.00	0.00	C
ATOM	9252	CG	GLN	974	-11.457	107.127	61.767	1.00	0.00	C
ATOM	9253	CD	GLN	974	-10.388	106.057	61.753	1.00	0.00	C
ATOM	9254	OE1	GLN	974	-9.788	105.772	60.718	1.00	0.00	O
ATOM	9255	NE2	GLN	974	-10.160	105.426	62.936	1.00	0.00	N
ATOM	9256	1HE2	GLN	974	-9.439	104.704	62.927	1.00	0.00	H
ATOM	9257	2HE2	GLN	974	-10.658	105.662	63.794	1.00	0.00	H
ATOM	9258	C	GLN	974	-8.876	108.218	59.878	1.00	0.00	C
ATOM	9259	O	GLN	974	-8.392	107.991	58.770	1.00	0.00	O
ATOM	9260	N	THR	975	-8.111	108.189	61.002	1.00	0.00	N
ATOM	9261	HN	THR	975	-8.513	108.393	61.917	1.00	0.00	H
ATOM	9262	CA	THR	975	-6.711	107.860	60.860	1.00	0.00	C
ATOM	9263	CB	THR	975	-5.835	109.082	60.817	1.00	0.00	C
ATOM	9264	OG1	THR	975	-6.227	109.930	59.748	1.00	0.00	O
ATOM	9265	HG1	THR	975	-5.674	110.702	59.721	1.00	0.00	H
ATOM	9266	CG2	THR	975	-4.372	108.644	60.627	1.00	0.00	C
ATOM	9267	C	THR	975	-6.180	107.001	61.978	1.00	0.00	C
ATOM	9268	O	THR	975	-6.016	107.451	63.114	1.00	0.00	O
ATOM	9269	N	LEU	976	-5.810	105.746	61.645	1.00	0.00	N
ATOM	9270	HN	LEU	976	-5.945	105.422	60.687	1.00	0.00	H
ATOM	9271	CA	LEU	976	-5.230	104.858	62.615	1.00	0.00	C
ATOM	9272	CB	LEU	976	-5.531	103.377	62.346	1.00	0.00	C
ATOM	9273	CG	LEU	976	-4.662	102.423	63.179	1.00	0.00	C
ATOM	9274	CD1	LEU	976	-4.615	102.829	64.656	1.00	0.00	C
ATOM	9275	CD2	LEU	976	-5.142	100.979	63.008	1.00	0.00	C
ATOM	9276	C	LEU	976	-3.748	105.064	62.619	1.00	0.00	C
ATOM	9277	O	LEU	976	-3.068	104.850	61.616	1.00	0.00	O
ATOM	9278	N	ALA	977	-3.209	105.478	63.785	1.00	0.00	N
ATOM	9279	HN	ALA	977	-3.807	105.571	64.606	1.00	0.00	H
ATOM	9280	CA	ALA	977	-1.810	105.790	63.894	1.00	0.00	C
ATOM	9281	CB	ALA	977	-1.506	106.961	64.844	1.00	0.00	C
ATOM	9282	C	ALA	977	-1.064	104.600	64.393	1.00	0.00	C
ATOM	9283	O	ALA	977	-1.409	103.997	65.409	1.00	0.00	O
ATOM	9284	N	LEU	978	0.017	104.232	63.683	1.00	0.00	N
ATOM	9285	HN	LEU	978	0.333	104.750	62.863	1.00	0.00	H
ATOM	9286	CA	LEU	978	0.690	103.068	64.155	1.00	0.00	C
ATOM	9287	CB	LEU	978	0.654	101.909	63.145	1.00	0.00	C
ATOM	9288	CG	LEU	978	1.018	100.533	63.732	1.00	0.00	C
ATOM	9289	CD1	LEU	978	2.460	100.484	64.255	1.00	0.00	C
ATOM	9290	CD2	LEU	978	-0.019	100.100	64.781	1.00	0.00	C
ATOM	9291	C	LEU	978	2.114	103.402	64.478	1.00	0.00	C
ATOM	9292	O	LEU	978	2.843	103.974	63.666	1.00	0.00	O
ATOM	9293	N	VAL	979	2.523	103.070	65.721	1.00	0.00	N
ATOM	9294	HN	VAL	979	1.845	102.687	66.380	1.00	0.00	H
ATOM	9295	CA	VAL	979	3.884	103.240	66.142	1.00	0.00	C
ATOM	9296	CB	VAL	979	4.055	104.354	67.140	1.00	0.00	C
ATOM	9297	CG1	VAL	979	3.088	104.135	68.316	1.00	0.00	C
ATOM	9298	CG2	VAL	979	5.535	104.420	67.555	1.00	0.00	C
ATOM	9299	C	VAL	979	4.332	101.946	66.760	1.00	0.00	C
ATOM	9300	O	VAL	979	3.858	101.552	67.826	1.00	0.00	O
ATOM	9301	N	GLY	980	5.257	101.233	66.083	1.00	0.00	N
ATOM	9302	HN	GLY	980	5.620	101.589	65.199	1.00	0.00	H
ATOM	9303	CA	GLY	980	5.736	99.980	66.593	1.00	0.00	C
ATOM	9304	C	GLY	980	7.175	100.103	66.988	1.00	0.00	C
ATOM	9305	O	GLY	980	7.704	101.201	67.167	1.00	0.00	O
ATOM	9306	N	SER	981	7.824	98.932	67.172	1.00	0.00	N
ATOM	9307	HN	SER	981	7.290	98.069	67.065	1.00	0.00	H
ATOM	9308	CA	SER	981	9.217	98.822	67.508	1.00	0.00	C
ATOM	9309	CB	SER	981	9.621	97.370	67.806	1.00	0.00	C
ATOM	9310	OG	SER	981	11.029	97.272	67.937	1.00	0.00	O
ATOM	9311	HG	SER	981	11.279	96.374	68.121	1.00	0.00	H
ATOM	9312	C	SER	981	10.059	99.283	66.362	1.00	0.00	C
ATOM	9313	O	SER	981	10.621	100.378	66.373	1.00	0.00	O
ATOM	9314	N	SER	982	10.159	98.426	65.326	1.00	0.00	N
ATOM	9315	HN	SER	982	9.671	97.531	65.368	1.00	0.00	H
ATOM	9316	CA	SER	982	10.937	98.749	64.169	1.00	0.00	C
ATOM	9317	CB	SER	982	12.439	98.912	64.460	1.00	0.00	C
ATOM	9318	OG	SER	982	12.994	97.673	64.880	1.00	0.00	O
ATOM	9319	HG	SER	982	13.921	97.774	65.060	1.00	0.00	H
ATOM	9320	C	SER	982	10.796	97.620	63.204	1.00	0.00	C
ATOM	9321	O	SER	982	10.504	96.488	63.589	1.00	0.00	O

ATOM	9322	N	GLY	983	10.999	97.921	61.908	1.00	0.00	N
ATOM	9323	HN	GLY	983	11.182	98.891	61.650	1.00	0.00	H
ATOM	9324	CA	GLY	983	10.967	96.926	60.878	1.00	0.00	C
ATOM	9325	C	GLY	983	9.634	96.253	60.841	1.00	0.00	C
ATOM	9326	O	GLY	983	8.606	96.867	60.557	1.00	0.00	O
ATOM	9327	N	CYS	984	9.635	94.942	61.142	1.00	0.00	N
ATOM	9328	HN	CYS	984	10.503	94.509	61.458	1.00	0.00	H
ATOM	9329	CA	CYS	984	8.459	94.135	61.034	1.00	0.00	C
ATOM	9330	CB	CYS	984	8.691	92.655	61.383	1.00	0.00	C
ATOM	9331	SG	CYS	984	9.807	91.823	60.215	1.00	0.00	S
ATOM	9332	C	CYS	984	7.405	94.641	61.958	1.00	0.00	C
ATOM	9333	O	CYS	984	7.646	95.489	62.814	1.00	0.00	O
ATOM	9334	N	GLY	985	6.168	94.160	61.732	1.00	0.00	N
ATOM	9335	HN	GLY	985	6.026	93.539	60.936	1.00	0.00	H
ATOM	9336	CA	GLY	985	5.043	94.480	62.558	1.00	0.00	C
ATOM	9337	C	GLY	985	4.175	95.440	61.819	1.00	0.00	C
ATOM	9338	O	GLY	985	3.024	95.145	61.503	1.00	0.00	O
ATOM	9339	N	LYS	986	4.730	96.617	61.497	1.00	0.00	N
ATOM	9340	HN	LYS	986	5.699	96.804	61.755	1.00	0.00	H
ATOM	9341	CA	LYS	986	3.980	97.617	60.795	1.00	0.00	C
ATOM	9342	CB	LYS	986	4.794	98.902	60.598	1.00	0.00	C
ATOM	9343	CG	LYS	986	5.343	99.477	61.903	1.00	0.00	C
ATOM	9344	CD	LYS	986	6.472	100.482	61.680	1.00	0.00	C
ATOM	9345	CE	LYS	986	7.208	100.869	62.963	1.00	0.00	C
ATOM	9346	NZ	LYS	986	8.427	101.635	62.626	1.00	0.00	N
ATOM	9347	HZ1	LYS	986	8.918	101.893	63.482	1.00	0.00	H
ATOM	9348	HZ2	LYS	986	8.222	102.445	62.041	1.00	0.00	H
ATOM	9349	HZ3	LYS	986	9.029	101.132	61.974	1.00	0.00	H
ATOM	9350	C	LYS	986	3.709	97.082	59.427	1.00	0.00	C
ATOM	9351	O	LYS	986	2.614	97.218	58.881	1.00	0.00	O
ATOM	9352	N	SER	987	4.744	96.458	58.840	1.00	0.00	N
ATOM	9353	HN	SER	987	5.609	96.338	59.367	1.00	0.00	H
ATOM	9354	CA	SER	987	4.676	95.956	57.503	1.00	0.00	C
ATOM	9355	CB	SER	987	6.008	95.343	57.058	1.00	0.00	C
ATOM	9356	OG	SER	987	7.052	96.281	57.257	1.00	0.00	O
ATOM	9357	HG	SER	987	7.878	95.901	56.981	1.00	0.00	H
ATOM	9358	C	SER	987	3.679	94.848	57.453	1.00	0.00	C
ATOM	9359	O	SER	987	2.779	94.854	56.615	1.00	0.00	O
ATOM	9360	N	THR	988	3.806	93.891	58.394	1.00	0.00	N
ATOM	9361	HN	THR	988	4.500	94.017	59.131	1.00	0.00	H
ATOM	9362	CA	THR	988	3.003	92.703	58.399	1.00	0.00	C
ATOM	9363	CB	THR	988	3.337	91.784	59.542	1.00	0.00	C
ATOM	9364	OG1	THR	988	3.118	92.438	60.783	1.00	0.00	O
ATOM	9365	HG1	THR	988	3.329	91.858	61.505	1.00	0.00	H
ATOM	9366	CG2	THR	988	4.810	91.356	59.423	1.00	0.00	C
ATOM	9367	C	THR	988	1.567	93.080	58.519	1.00	0.00	C
ATOM	9368	O	THR	988	0.714	92.507	57.842	1.00	0.00	O
ATOM	9369	N	VAL	989	1.254	94.058	59.386	1.00	0.00	N
ATOM	9370	HN	VAL	989	1.986	94.531	59.916	1.00	0.00	H
ATOM	9371	CA	VAL	989	-0.120	94.429	59.557	1.00	0.00	C
ATOM	9372	CB	VAL	989	-0.297	95.551	60.537	1.00	0.00	C
ATOM	9373	CG1	VAL	989	-1.776	95.969	60.546	1.00	0.00	C
ATOM	9374	CG2	VAL	989	0.223	95.086	61.907	1.00	0.00	C
ATOM	9375	C	VAL	989	-0.659	94.896	58.243	1.00	0.00	C
ATOM	9376	O	VAL	989	-1.670	94.383	57.765	1.00	0.00	O
ATOM	9377	N	VAL	990	0.053	95.831	57.587	1.00	0.00	N
ATOM	9378	HN	VAL	990	0.950	96.134	57.967	1.00	0.00	H
ATOM	9379	CA	VAL	990	-0.425	96.411	56.362	1.00	0.00	C
ATOM	9380	CB	VAL	990	0.600	97.329	55.755	1.00	0.00	C
ATOM	9381	CG1	VAL	990	0.101	97.815	54.385	1.00	0.00	C
ATOM	9382	CG2	VAL	990	0.896	98.458	56.758	1.00	0.00	C
ATOM	9383	C	VAL	990	-0.660	95.303	55.393	1.00	0.00	C
ATOM	9384	O	VAL	990	-1.744	95.161	54.828	1.00	0.00	O
ATOM	9385	N	GLN	991	0.338	94.425	55.250	1.00	0.00	N
ATOM	9386	HN	GLN	991	1.170	94.508	55.834	1.00	0.00	H
ATOM	9387	CA	GLN	991	0.253	93.374	54.291	1.00	0.00	C
ATOM	9388	CB	GLN	991	1.535	92.528	54.315	1.00	0.00	C
ATOM	9389	CG	GLN	991	2.718	93.358	53.805	1.00	0.00	C
ATOM	9390	CD	GLN	991	4.031	92.789	54.318	1.00	0.00	C
ATOM	9391	OE1	GLN	991	5.018	93.512	54.446	1.00	0.00	O
ATOM	9392	NE2	GLN	991	4.050	91.468	54.634	1.00	0.00	N
ATOM	9393	1HE2	GLN	991	3.232	90.869	54.528	1.00	0.00	H
ATOM	9394	2HE2	GLN	991	4.931	91.086	54.978	1.00	0.00	H
ATOM	9395	C	GLN	991	-0.949	92.547	54.607	1.00	0.00	C

ATOM	9396	O	GLN	991	-1.734	92.248	53.714	1.00	0.00	O
ATOM	9397	N	LEU	992	-1.199	92.253	55.895	1.00	0.00	N
ATOM	9398	HN	LEU	992	-0.605	92.647	56.625	1.00	0.00	H
ATOM	9399	CA	LEU	992	-2.291	91.392	56.257	1.00	0.00	C
ATOM	9400	CB	LEU	992	-2.452	91.234	57.780	1.00	0.00	C
ATOM	9401	CG	LEU	992	-1.304	90.444	58.438	1.00	0.00	C
ATOM	9402	CD1	LEU	992	-1.506	90.311	59.956	1.00	0.00	C
ATOM	9403	CD2	LEU	992	-1.111	89.081	57.753	1.00	0.00	C
ATOM	9404	C	LEU	992	-3.579	91.954	55.728	1.00	0.00	C
ATOM	9405	O	LEU	992	-4.443	91.200	55.287	1.00	0.00	O
ATOM	9406	N	LEU	993	-3.749	93.290	55.772	1.00	0.00	N
ATOM	9407	HN	LEU	993	-3.007	93.866	56.169	1.00	0.00	H
ATOM	9408	CA	LEU	993	-4.941	93.937	55.279	1.00	0.00	C
ATOM	9409	CB	LEU	993	-4.834	95.472	55.418	1.00	0.00	C
ATOM	9410	CG	LEU	993	-6.060	96.316	54.996	1.00	0.00	C
ATOM	9411	CD1	LEU	993	-6.418	96.199	53.506	1.00	0.00	C
ATOM	9412	CD2	LEU	993	-7.252	96.058	55.921	1.00	0.00	C
ATOM	9413	C	LEU	993	-5.006	93.644	53.815	1.00	0.00	C
ATOM	9414	O	LEU	993	-6.067	93.373	53.252	1.00	0.00	O
ATOM	9415	N	GLU	994	-3.832	93.719	53.173	1.00	0.00	N
ATOM	9416	HN	GLU	994	-3.014	93.996	53.715	1.00	0.00	H
ATOM	9417	CA	GLU	994	-3.642	93.439	51.785	1.00	0.00	C
ATOM	9418	CB	GLU	994	-2.236	93.789	51.273	1.00	0.00	C
ATOM	9419	CG	GLU	994	-2.053	95.288	51.029	1.00	0.00	C
ATOM	9420	CD	GLU	994	-2.830	95.644	49.766	1.00	0.00	C
ATOM	9421	OE1	GLU	994	-3.912	95.041	49.531	1.00	0.00	O
ATOM	9422	OE2	GLU	994	-2.338	96.524	49.011	1.00	0.00	O
ATOM	9423	C	GLU	994	-3.871	91.975	51.601	1.00	0.00	C
ATOM	9424	O	GLU	994	-3.901	91.469	50.483	1.00	0.00	O
ATOM	9425	N	ARG	995	-3.921	91.238	52.721	1.00	0.00	N
ATOM	9426	HN	ARG	995	-3.784	91.698	53.621	1.00	0.00	H
ATOM	9427	CA	ARG	995	-4.160	89.829	52.695	1.00	0.00	C
ATOM	9428	CB	ARG	995	-5.564	89.461	52.171	1.00	0.00	C
ATOM	9429	CG	ARG	995	-5.867	87.959	52.199	1.00	0.00	C
ATOM	9430	CD	ARG	995	-7.240	87.588	51.636	1.00	0.00	C
ATOM	9431	NE	ARG	995	-7.310	86.100	51.578	1.00	0.00	N
ATOM	9432	HE	ARG	995	-6.474	85.545	51.763	1.00	0.00	H
ATOM	9433	CZ	ARG	995	-8.487	85.476	51.278	1.00	0.00	C
ATOM	9434	NH1	ARG	995	-9.615	86.212	51.058	1.00	0.00	N
ATOM	9435	1HH1	ARG	995	-9.580	87.230	51.119	1.00	0.00	H
ATOM	9436	2HH1	ARG	995	-10.494	85.746	50.834	1.00	0.00	H
ATOM	9437	NH2	ARG	995	-8.534	84.114	51.196	1.00	0.00	N
ATOM	9438	1HH2	ARG	995	-7.691	83.564	51.360	1.00	0.00	H
ATOM	9439	2HH2	ARG	995	-9.413	83.648	50.972	1.00	0.00	H
ATOM	9440	C	ARG	995	-3.129	89.199	51.815	1.00	0.00	C
ATOM	9441	O	ARG	995	-3.452	88.355	50.980	1.00	0.00	O
ATOM	9442	N	PHE	996	-1.862	89.657	51.917	1.00	0.00	N
ATOM	9443	HN	PHE	996	-1.646	90.456	52.513	1.00	0.00	H
ATOM	9444	CA	PHE	996	-0.828	89.003	51.175	1.00	0.00	C
ATOM	9445	CB	PHE	996	0.507	89.765	51.115	1.00	0.00	C
ATOM	9446	CG	PHE	996	0.294	90.995	50.299	1.00	0.00	C
ATOM	9447	CD1	PHE	996	-0.254	90.905	49.040	1.00	0.00	C
ATOM	9448	CD2	PHE	996	0.689	92.228	50.768	1.00	0.00	C
ATOM	9449	CE1	PHE	996	-0.443	92.030	48.273	1.00	0.00	C
ATOM	9450	CE2	PHE	996	0.505	93.357	50.004	1.00	0.00	C
ATOM	9451	CZ	PHE	996	-0.065	93.260	48.757	1.00	0.00	C
ATOM	9452	C	PHE	996	-0.576	87.678	51.812	1.00	0.00	C
ATOM	9453	O	PHE	996	-0.528	86.645	51.147	1.00	0.00	O
ATOM	9454	N	TYR	997	-0.440	87.688	53.149	1.00	0.00	N
ATOM	9455	HN	TYR	997	-0.511	88.579	53.640	1.00	0.00	H
ATOM	9456	CA	TYR	997	-0.199	86.501	53.915	1.00	0.00	C
ATOM	9457	CB	TYR	997	0.955	86.652	54.921	1.00	0.00	C
ATOM	9458	CG	TYR	997	2.160	87.193	54.233	1.00	0.00	C
ATOM	9459	CD1	TYR	997	2.184	88.518	53.864	1.00	0.00	C
ATOM	9460	CD2	TYR	997	3.263	86.410	53.981	1.00	0.00	C
ATOM	9461	CE1	TYR	997	3.282	89.060	53.241	1.00	0.00	C
ATOM	9462	CE2	TYR	997	4.366	86.949	53.357	1.00	0.00	C
ATOM	9463	CZ	TYR	997	4.377	88.273	52.986	1.00	0.00	C
ATOM	9464	OH	TYR	997	5.510	88.826	52.350	1.00	0.00	O
ATOM	9465	HH	TYR	997	5.518	89.741	52.094	1.00	0.00	H
ATOM	9466	C	TYR	997	-1.416	86.397	54.781	1.00	0.00	C
ATOM	9467	O	TYR	997	-1.898	87.408	55.290	1.00	0.00	O
ATOM	9468	N	ASP	998	-1.971	85.184	54.964	1.00	0.00	N
ATOM	9469	HN	ASP	998	-1.562	84.356	54.532	1.00	0.00	H

ATOM	9470	CA	ASP	998	-3.152	85.076	55.780	1.00	0.00	C
ATOM	9471	CB	ASP	998	-4.128	83.974	55.334	1.00	0.00	C
ATOM	9472	CG	ASP	998	-4.824	84.461	54.076	1.00	0.00	C
ATOM	9473	OD1	ASP	998	-4.608	85.648	53.716	1.00	0.00	O
ATOM	9474	OD2	ASP	998	-5.587	83.666	53.464	1.00	0.00	O
ATOM	9475	C	ASP	998	-2.743	84.757	57.178	1.00	0.00	C
ATOM	9476	O	ASP	998	-1.919	83.878	57.425	1.00	0.00	O
ATOM	9477	N	PRO	999	-3.342	85.465	58.096	1.00	0.00	N
ATOM	9478	CA	PRO	999	-3.040	85.318	59.493	1.00	0.00	C
ATOM	9479	CD	PRO	999	-4.653	86.052	57.872	1.00	0.00	C
ATOM	9480	CB	PRO	999	-4.066	86.184	60.221	1.00	0.00	C
ATOM	9481	CG	PRO	999	-5.278	86.169	59.271	1.00	0.00	C
ATOM	9482	C	PRO	999	-3.131	83.881	59.888	1.00	0.00	C
ATOM	9483	O	PRO	999	-4.015	83.173	59.411	1.00	0.00	O
ATOM	9484	N	LEU	1000	-2.205	83.433	60.755	1.00	0.00	N
ATOM	9485	HN	LEU	1000	-1.498	84.085	61.095	1.00	0.00	H
ATOM	9486	CA	LEU	1000	-2.171	82.080	61.220	1.00	0.00	C
ATOM	9487	CB	LEU	1000	-0.983	81.818	62.161	1.00	0.00	C
ATOM	9488	CG	LEU	1000	0.385	82.063	61.499	1.00	0.00	C
ATOM	9489	CD1	LEU	1000	1.538	81.775	62.476	1.00	0.00	C
ATOM	9490	CD2	LEU	1000	0.511	81.302	60.170	1.00	0.00	C
ATOM	9491	C	LEU	1000	-3.424	81.832	62.000	1.00	0.00	C
ATOM	9492	O	LEU	1000	-3.998	80.751	61.920	1.00	0.00	O
ATOM	9493	N	ALA	1001	-3.875	82.821	62.799	1.00	0.00	N
ATOM	9494	HN	ALA	1001	-3.370	83.706	62.853	1.00	0.00	H
ATOM	9495	CA	ALA	1001	-5.071	82.623	63.574	1.00	0.00	C
ATOM	9496	CB	ALA	1001	-4.797	82.052	64.976	1.00	0.00	C
ATOM	9497	C	ALA	1001	-5.738	83.955	63.764	1.00	0.00	C
ATOM	9498	O	ALA	1001	-5.076	84.991	63.801	1.00	0.00	O
ATOM	9499	N	GLY	1002	-7.082	83.955	63.916	1.00	0.00	N
ATOM	9500	HN	GLY	1002	-7.589	83.070	63.894	1.00	0.00	H
ATOM	9501	CA	GLY	1002	-7.810	85.183	64.108	1.00	0.00	C
ATOM	9502	C	GLY	1002	-8.312	85.639	62.768	1.00	0.00	C
ATOM	9503	O	GLY	1002	-8.167	84.918	61.784	1.00	0.00	O
ATOM	9504	N	LYS	1003	-8.944	86.838	62.694	1.00	0.00	N
ATOM	9505	HN	LYS	1003	-9.050	87.416	63.528	1.00	0.00	H
ATOM	9506	CA	LYS	1003	-9.463	87.288	61.428	1.00	0.00	C
ATOM	9507	CB	LYS	1003	-10.858	86.731	61.087	1.00	0.00	C
ATOM	9508	CG	LYS	1003	-11.913	86.977	62.166	1.00	0.00	C
ATOM	9509	CD	LYS	1003	-11.619	86.241	63.474	1.00	0.00	C
ATOM	9510	CE	LYS	1003	-12.712	86.402	64.531	1.00	0.00	C
ATOM	9511	NZ	LYS	1003	-12.399	85.565	65.710	1.00	0.00	N
ATOM	9512	HZ1	LYS	1003	-13.128	85.672	66.415	1.00	0.00	H
ATOM	9513	HZ2	LYS	1003	-11.471	85.763	66.085	1.00	0.00	H
ATOM	9514	HZ3	LYS	1003	-12.251	84.588	65.458	1.00	0.00	H
ATOM	9515	C	LYS	1003	-9.544	88.792	61.367	1.00	0.00	C
ATOM	9516	O	LYS	1003	-9.174	89.499	62.302	1.00	0.00	O
ATOM	9517	N	VAL	1004	-10.010	89.330	60.218	1.00	0.00	N
ATOM	9518	HN	VAL	1004	-10.287	88.719	59.450	1.00	0.00	H
ATOM	9519	CA	VAL	1004	-10.119	90.759	60.067	1.00	0.00	C
ATOM	9520	CB	VAL	1004	-8.874	91.355	59.419	1.00	0.00	C
ATOM	9521	CG1	VAL	1004	-8.398	90.404	58.330	1.00	0.00	C
ATOM	9522	CG2	VAL	1004	-9.103	92.776	58.873	1.00	0.00	C
ATOM	9523	C	VAL	1004	-11.401	91.086	59.352	1.00	0.00	C
ATOM	9524	O	VAL	1004	-12.092	90.187	58.891	1.00	0.00	O
ATOM	9525	N	LEU	1005	-11.828	92.369	59.365	1.00	0.00	N
ATOM	9526	HN	LEU	1005	-11.296	93.054	59.902	1.00	0.00	H
ATOM	9527	CA	LEU	1005	-13.002	92.812	58.653	1.00	0.00	C
ATOM	9528	CB	LEU	1005	-14.289	92.840	59.502	1.00	0.00	C
ATOM	9529	CG	LEU	1005	-14.830	91.458	59.925	1.00	0.00	C
ATOM	9530	CD1	LEU	1005	-13.887	90.730	60.896	1.00	0.00	C
ATOM	9531	CD2	LEU	1005	-16.262	91.577	60.472	1.00	0.00	C
ATOM	9532	C	LEU	1005	-12.757	94.227	58.217	1.00	0.00	C
ATOM	9533	O	LEU	1005	-12.785	95.154	59.022	1.00	0.00	O
ATOM	9534	N	LEU	1006	-12.586	94.438	56.903	1.00	0.00	N
ATOM	9535	HN	LEU	1006	-12.653	93.637	56.275	1.00	0.00	H
ATOM	9536	CA	LEU	1006	-12.315	95.724	56.330	1.00	0.00	C
ATOM	9537	CB	LEU	1006	-12.134	95.701	54.807	1.00	0.00	C
ATOM	9538	CG	LEU	1006	-13.459	95.551	54.045	1.00	0.00	C
ATOM	9539	CD1	LEU	1006	-13.205	95.530	52.534	1.00	0.00	C
ATOM	9540	CD2	LEU	1006	-14.280	94.354	54.550	1.00	0.00	C
ATOM	9541	C	LEU	1006	-13.498	96.570	56.615	1.00	0.00	C
ATOM	9542	O	LEU	1006	-13.462	97.793	56.489	1.00	0.00	O
ATOM	9543	N	ASP	1007	-14.630	95.912	56.888	1.00	0.00	N

ATOM	9544	HN	ASP	1007	-14.648	94.892	56.865	1.00	0.00	H
ATOM	9545	CA	ASP	1007	-15.808	96.639	57.210	1.00	0.00	C
ATOM	9546	CB	ASP	1007	-16.514	97.180	55.955	1.00	0.00	C
ATOM	9547	CG	ASP	1007	-17.724	98.003	56.376	1.00	0.00	C
ATOM	9548	OD1	ASP	1007	-17.651	98.678	57.438	1.00	0.00	O
ATOM	9549	OD2	ASP	1007	-18.746	97.956	55.641	1.00	0.00	O
ATOM	9550	C	ASP	1007	-16.733	95.655	57.847	1.00	0.00	C
ATOM	9551	O	ASP	1007	-16.938	95.649	59.058	1.00	0.00	O
ATOM	9552	N	GLY	1008	-17.429	94.897	56.987	1.00	0.00	N
ATOM	9553	HN	GLY	1008	-17.245	95.023	55.992	1.00	0.00	H
ATOM	9554	CA	GLY	1008	-18.411	93.924	57.359	1.00	0.00	C
ATOM	9555	C	GLY	1008	-18.018	92.520	57.712	1.00	0.00	C
ATOM	9556	O	GLY	1008	-18.607	91.950	58.630	1.00	0.00	O
ATOM	9557	N	LYS	1009	-17.092	91.876	56.962	1.00	0.00	N
ATOM	9558	HN	LYS	1009	-16.511	92.354	56.273	1.00	0.00	H
ATOM	9559	CA	LYS	1009	-16.995	90.462	57.216	1.00	0.00	C
ATOM	9560	CB	LYS	1009	-18.019	89.629	56.421	1.00	0.00	C
ATOM	9561	CG	LYS	1009	-19.461	90.138	56.504	1.00	0.00	C
ATOM	9562	CD	LYS	1009	-19.720	91.358	55.615	1.00	0.00	C
ATOM	9563	CE	LYS	1009	-21.073	92.031	55.851	1.00	0.00	C
ATOM	9564	NZ	LYS	1009	-21.038	93.414	55.323	1.00	0.00	N
ATOM	9565	HZ1	LYS	1009	-21.940	93.863	55.480	1.00	0.00	H
ATOM	9566	HZ2	LYS	1009	-20.759	93.445	54.342	1.00	0.00	H
ATOM	9567	HZ3	LYS	1009	-20.266	93.955	55.712	1.00	0.00	H
ATOM	9568	C	LYS	1009	-15.667	89.948	56.788	1.00	0.00	C
ATOM	9569	O	LYS	1009	-15.119	90.370	55.770	1.00	0.00	O
ATOM	9570	N	GLU	1010	-15.224	88.908	57.523	1.00	0.00	N
ATOM	9571	HN	GLU	1010	-15.893	88.526	58.191	1.00	0.00	H
ATOM	9572	CA	GLU	1010	-13.946	88.267	57.495	1.00	0.00	C
ATOM	9573	CB	GLU	1010	-14.003	86.731	57.606	1.00	0.00	C
ATOM	9574	CG	GLU	1010	-14.487	86.192	58.953	1.00	0.00	C
ATOM	9575	CD	GLU	1010	-14.464	84.671	58.862	1.00	0.00	C
ATOM	9576	OE1	GLU	1010	-13.396	84.119	58.484	1.00	0.00	O
ATOM	9577	OE2	GLU	1010	-15.513	84.041	59.162	1.00	0.00	O
ATOM	9578	C	GLU	1010	-13.161	88.556	56.273	1.00	0.00	C
ATOM	9579	O	GLU	1010	-13.440	88.070	55.181	1.00	0.00	O
ATOM	9580	N	ILE	1011	-12.074	89.326	56.480	1.00	0.00	N
ATOM	9581	HN	ILE	1011	-12.000	89.803	57.378	1.00	0.00	H
ATOM	9582	CA	ILE	1011	-11.025	89.524	55.546	1.00	0.00	C
ATOM	9583	CB	ILE	1011	-10.351	90.875	55.660	1.00	0.00	C
ATOM	9584	CG1	ILE	1011	-11.276	91.935	55.042	1.00	0.00	C
ATOM	9585	CG2	ILE	1011	-8.989	90.854	54.938	1.00	0.00	C
ATOM	9586	CD1	ILE	1011	-12.688	91.944	55.606	1.00	0.00	C
ATOM	9587	C	ILE	1011	-10.118	88.400	55.924	1.00	0.00	C
ATOM	9588	O	ILE	1011	-9.015	88.571	56.426	1.00	0.00	O
ATOM	9589	N	LYS	1012	-10.765	87.238	56.075	1.00	0.00	N
ATOM	9590	HN	LYS	1012	-11.750	87.321	56.328	1.00	0.00	H
ATOM	9591	CA	LYS	1012	-10.292	85.919	55.937	1.00	0.00	C
ATOM	9592	CB	LYS	1012	-10.956	84.972	56.944	1.00	0.00	C
ATOM	9593	CG	LYS	1012	-10.488	83.523	56.839	1.00	0.00	C
ATOM	9594	CD	LYS	1012	-9.037	83.288	57.272	1.00	0.00	C
ATOM	9595	CE	LYS	1012	-8.006	83.558	56.174	1.00	0.00	C
ATOM	9596	NZ	LYS	1012	-7.563	84.968	56.221	1.00	0.00	N
ATOM	9597	HZ1	LYS	1012	-6.876	85.148	55.489	1.00	0.00	H
ATOM	9598	HZ2	LYS	1012	-7.213	85.226	57.144	1.00	0.00	H
ATOM	9599	HZ3	LYS	1012	-8.349	85.616	56.172	1.00	0.00	H
ATOM	9600	C	LYS	1012	-10.810	85.575	54.589	1.00	0.00	C
ATOM	9601	O	LYS	1012	-10.103	85.170	53.669	1.00	0.00	O
ATOM	9602	N	ARG	1013	-12.135	85.848	54.465	1.00	0.00	N
ATOM	9603	HN	ARG	1013	-12.622	86.300	55.239	1.00	0.00	H
ATOM	9604	CA	ARG	1013	-12.865	85.520	53.282	1.00	0.00	C
ATOM	9605	CB	ARG	1013	-13.776	84.291	53.448	1.00	0.00	C
ATOM	9606	CG	ARG	1013	-12.971	82.996	53.590	1.00	0.00	C
ATOM	9607	CD	ARG	1013	-13.815	81.727	53.719	1.00	0.00	C
ATOM	9608	NE	ARG	1013	-12.864	80.580	53.755	1.00	0.00	N
ATOM	9609	HE	ARG	1013	-12.481	80.264	54.646	1.00	0.00	H
ATOM	9610	CZ	ARG	1013	-12.505	79.952	52.598	1.00	0.00	C
ATOM	9611	NH1	ARG	1013	-13.078	80.321	51.415	1.00	0.00	N
ATOM	9612	1HH1	ARG	1013	-13.777	81.064	51.398	1.00	0.00	H
ATOM	9613	2HH1	ARG	1013	-12.810	79.852	50.550	1.00	0.00	H
ATOM	9614	NH2	ARG	1013	-11.570	78.958	52.621	1.00	0.00	N
ATOM	9615	1HH2	ARG	1013	-11.142	78.682	53.505	1.00	0.00	H
ATOM	9616	2HH2	ARG	1013	-11.302	78.489	51.756	1.00	0.00	H
ATOM	9617	C	ARG	1013	-13.698	86.681	52.849	1.00	0.00	C

ATOM	9618	O	ARG	1013	-14.812	86.904	53.325	1.00	0.00	O
ATOM	9619	N	LEU	1014	-13.115	87.469	51.936	1.00	0.00	N
ATOM	9620	HN	LEU	1014	-12.147	87.252	51.701	1.00	0.00	H
ATOM	9621	CA	LEU	1014	-13.702	88.582	51.255	1.00	0.00	C
ATOM	9622	CB	LEU	1014	-13.354	89.938	51.883	1.00	0.00	C
ATOM	9623	CG	LEU	1014	-13.982	91.138	51.154	1.00	0.00	C
ATOM	9624	CD1	LEU	1014	-15.518	91.088	51.207	1.00	0.00	C
ATOM	9625	CD2	LEU	1014	-13.410	92.462	51.683	1.00	0.00	C
ATOM	9626	C	LEU	1014	-13.026	88.494	49.924	1.00	0.00	C
ATOM	9627	O	LEU	1014	-11.877	88.055	49.874	1.00	0.00	O
ATOM	9628	N	ASN	1015	-13.689	88.879	48.812	1.00	0.00	N
ATOM	9629	HN	ASN	1015	-14.620	89.293	48.860	1.00	0.00	H
ATOM	9630	CA	ASN	1015	-13.017	88.677	47.557	1.00	0.00	C
ATOM	9631	CB	ASN	1015	-13.837	89.058	46.318	1.00	0.00	C
ATOM	9632	CG	ASN	1015	-12.940	88.778	45.120	1.00	0.00	C
ATOM	9633	OD1	ASN	1015	-12.324	89.688	44.567	1.00	0.00	O
ATOM	9634	ND2	ASN	1015	-12.815	87.482	44.734	1.00	0.00	N
ATOM	9635	1HD2	ASN	1015	-12.214	87.294	43.931	1.00	0.00	H
ATOM	9636	2HD2	ASN	1015	-13.326	86.727	45.193	1.00	0.00	H
ATOM	9637	C	ASN	1015	-11.766	89.478	47.533	1.00	0.00	C
ATOM	9638	O	ASN	1015	-11.784	90.705	47.508	1.00	0.00	O
ATOM	9639	N	VAL	1016	-10.631	88.771	47.463	1.00	0.00	N
ATOM	9640	HN	VAL	1016	-10.680	87.759	47.347	1.00	0.00	H
ATOM	9641	CA	VAL	1016	-9.355	89.402	47.547	1.00	0.00	C
ATOM	9642	CB	VAL	1016	-8.256	88.388	47.595	1.00	0.00	C
ATOM	9643	CG1	VAL	1016	-8.770	87.108	46.916	1.00	0.00	C
ATOM	9644	CG2	VAL	1016	-6.995	88.995	46.959	1.00	0.00	C
ATOM	9645	C	VAL	1016	-9.160	90.418	46.464	1.00	0.00	C
ATOM	9646	O	VAL	1016	-8.676	91.504	46.784	1.00	0.00	O
ATOM	9647	N	PRO	1017	-9.513	90.196	45.223	1.00	0.00	N
ATOM	9648	CA	PRO	1017	-9.274	91.225	44.251	1.00	0.00	C
ATOM	9649	CD	PRO	1017	-9.570	88.879	44.613	1.00	0.00	C
ATOM	9650	CB	PRO	1017	-9.624	90.610	42.899	1.00	0.00	C
ATOM	9651	CG	PRO	1017	-9.329	89.112	43.111	1.00	0.00	C
ATOM	9652	C	PRO	1017	-10.021	92.468	44.598	1.00	0.00	C
ATOM	9653	O	PRO	1017	-9.513	93.560	44.348	1.00	0.00	O
ATOM	9654	N	TRP	1018	-11.244	92.329	45.135	1.00	0.00	N
ATOM	9655	HN	TRP	1018	-11.646	91.399	45.255	1.00	0.00	H
ATOM	9656	CA	TRP	1018	-11.982	93.487	45.538	1.00	0.00	C
ATOM	9657	CB	TRP	1018	-13.459	93.213	45.821	1.00	0.00	C
ATOM	9658	CG	TRP	1018	-14.152	94.472	46.266	1.00	0.00	C
ATOM	9659	CD2	TRP	1018	-14.378	94.817	47.639	1.00	0.00	C
ATOM	9660	CD1	TRP	1018	-14.646	95.498	45.519	1.00	0.00	C
ATOM	9661	NE1	TRP	1018	-15.156	96.472	46.343	1.00	0.00	N
ATOM	9662	HE1	TRP	1018	-15.579	97.349	46.038	1.00	0.00	H
ATOM	9663	CE2	TRP	1018	-15.000	96.065	47.651	1.00	0.00	C
ATOM	9664	CE3	TRP	1018	-14.083	94.152	48.792	1.00	0.00	C
ATOM	9665	CZ2	TRP	1018	-15.338	96.672	48.825	1.00	0.00	C
ATOM	9666	CZ3	TRP	1018	-14.435	94.762	49.972	1.00	0.00	C
ATOM	9667	CH2	TRP	1018	-15.049	95.997	49.989	1.00	0.00	C
ATOM	9668	C	TRP	1018	-11.393	94.064	46.786	1.00	0.00	C
ATOM	9669	O	TRP	1018	-11.316	95.283	46.941	1.00	0.00	O
ATOM	9670	N	LEU	1019	-10.962	93.190	47.716	1.00	0.00	N
ATOM	9671	HN	LEU	1019	-11.017	92.187	47.537	1.00	0.00	H
ATOM	9672	CA	LEU	1019	-10.424	93.668	48.961	1.00	0.00	C
ATOM	9673	CB	LEU	1019	-9.874	92.534	49.846	1.00	0.00	C
ATOM	9674	CG	LEU	1019	-9.290	93.017	51.187	1.00	0.00	C
ATOM	9675	CD1	LEU	1019	-10.360	93.694	52.056	1.00	0.00	C
ATOM	9676	CD2	LEU	1019	-8.559	91.878	51.917	1.00	0.00	C
ATOM	9677	C	LEU	1019	-9.287	94.580	48.624	1.00	0.00	C
ATOM	9678	O	LEU	1019	-9.163	95.668	49.181	1.00	0.00	O
ATOM	9679	N	ARG	1020	-8.438	94.168	47.674	1.00	0.00	N
ATOM	9680	HN	ARG	1020	-8.576	93.254	47.242	1.00	0.00	H
ATOM	9681	CA	ARG	1020	-7.337	94.986	47.251	1.00	0.00	C
ATOM	9682	CB	ARG	1020	-6.151	94.231	46.622	1.00	0.00	C
ATOM	9683	CG	ARG	1020	-6.441	93.359	45.410	1.00	0.00	C
ATOM	9684	CD	ARG	1020	-5.240	92.478	45.054	1.00	0.00	C
ATOM	9685	NE	ARG	1020	-4.958	91.615	46.238	1.00	0.00	N
ATOM	9686	HE	ARG	1020	-5.460	91.771	47.112	1.00	0.00	H
ATOM	9687	CZ	ARG	1020	-4.030	90.617	46.155	1.00	0.00	C
ATOM	9688	NH1	ARG	1020	-3.342	90.420	44.993	1.00	0.00	N
ATOM	9689	1HH1	ARG	1020	-2.649	89.674	44.931	1.00	0.00	H
ATOM	9690	2HH1	ARG	1020	-3.523	91.018	44.187	1.00	0.00	H
ATOM	9691	NH2	ARG	1020	-3.788	89.816	47.234	1.00	0.00	N

ATOM	9692	1HH2	ARG	1020	-3.095	89.070	47.172	1.00	0.00	H
ATOM	9693	2HH2	ARG	1020	-4.302	89.963	48.103	1.00	0.00	H
ATOM	9694	C	ARG	1020	-7.805	96.118	46.398	1.00	0.00	C
ATOM	9695	O	ARG	1020	-7.034	97.013	46.068	1.00	0.00	O
ATOM	9696	N	ALA	1021	-9.067	96.080	45.947	1.00	0.00	N
ATOM	9697	HN	ALA	1021	-9.665	95.282	46.160	1.00	0.00	H
ATOM	9698	CA	ALA	1021	-9.568	97.168	45.165	1.00	0.00	C
ATOM	9699	CB	ALA	1021	-11.064	97.028	44.839	1.00	0.00	C
ATOM	9700	C	ALA	1021	-9.390	98.403	46.000	1.00	0.00	C
ATOM	9701	O	ALA	1021	-8.957	99.438	45.494	1.00	0.00	O
ATOM	9702	N	HIS	1022	-9.683	98.329	47.315	1.00	0.00	N
ATOM	9703	HN	HIS	1022	-10.039	97.466	47.726	1.00	0.00	H
ATOM	9704	CA	HIS	1022	-9.479	99.503	48.119	1.00	0.00	C
ATOM	9705	ND1	HIS	1022	-12.222	101.171	47.705	1.00	0.00	N
ATOM	9706	HD1	HIS	1022	-11.599	101.963	47.547	1.00	0.00	H
ATOM	9707	CG	HIS	1022	-11.937	100.034	48.428	1.00	0.00	C
ATOM	9708	CB	HIS	1022	-10.624	99.777	49.111	1.00	0.00	C
ATOM	9709	NE2	HIS	1022	-14.041	99.895	47.619	1.00	0.00	N
ATOM	9710	HE2	HIS	1022	-14.979	99.554	47.407	1.00	0.00	H
ATOM	9711	CD2	HIS	1022	-13.060	99.265	48.365	1.00	0.00	C
ATOM	9712	CE1	HIS	1022	-13.492	101.035	47.243	1.00	0.00	C
ATOM	9713	C	HIS	1022	-8.214	99.341	48.909	1.00	0.00	C
ATOM	9714	O	HIS	1022	-8.105	98.473	49.773	1.00	0.00	O
ATOM	9715	N	LEU	1023	-7.197	100.174	48.606	1.00	0.00	N
ATOM	9716	HN	LEU	1023	-7.306	100.867	47.865	1.00	0.00	H
ATOM	9717	CA	LEU	1023	-5.961	100.082	49.329	1.00	0.00	C
ATOM	9718	CB	LEU	1023	-5.211	98.762	49.005	1.00	0.00	C
ATOM	9719	CG	LEU	1023	-4.668	98.595	47.559	1.00	0.00	C
ATOM	9720	CD1	LEU	1023	-4.340	97.129	47.239	1.00	0.00	C
ATOM	9721	CD2	LEU	1023	-5.556	99.270	46.501	1.00	0.00	C
ATOM	9722	C	LEU	1023	-5.116	101.270	48.964	1.00	0.00	C
ATOM	9723	O	LEU	1023	-4.388	101.268	47.974	1.00	0.00	O
ATOM	9724	N	GLY	1024	-5.152	102.340	49.772	1.00	0.00	N
ATOM	9725	HN	GLY	1024	-5.727	102.364	50.614	1.00	0.00	H
ATOM	9726	CA	GLY	1024	-4.333	103.447	49.380	1.00	0.00	C
ATOM	9727	C	GLY	1024	-2.979	103.162	49.924	1.00	0.00	C
ATOM	9728	O	GLY	1024	-2.610	103.681	50.974	1.00	0.00	O
ATOM	9729	N	ILE	1025	-2.169	102.363	49.199	1.00	0.00	N
ATOM	9730	HN	ILE	1025	-2.440	101.998	48.286	1.00	0.00	H
ATOM	9731	CA	ILE	1025	-0.906	102.062	49.795	1.00	0.00	C
ATOM	9732	CB	ILE	1025	-0.443	100.635	49.782	1.00	0.00	C
ATOM	9733	CG1	ILE	1025	-0.034	100.189	48.381	1.00	0.00	C
ATOM	9734	CG2	ILE	1025	-1.533	99.758	50.415	1.00	0.00	C
ATOM	9735	CD1	ILE	1025	0.883	98.975	48.457	1.00	0.00	C
ATOM	9736	C	ILE	1025	0.166	102.813	49.079	1.00	0.00	C
ATOM	9737	O	ILE	1025	0.091	103.061	47.877	1.00	0.00	O
ATOM	9738	N	VAL	1026	1.154	103.274	49.864	1.00	0.00	N
ATOM	9739	HN	VAL	1026	1.028	103.189	50.873	1.00	0.00	H
ATOM	9740	CA	VAL	1026	2.371	103.875	49.402	1.00	0.00	C
ATOM	9741	CB	VAL	1026	2.367	105.378	49.308	1.00	0.00	C
ATOM	9742	CG1	VAL	1026	1.583	105.812	48.067	1.00	0.00	C
ATOM	9743	CG2	VAL	1026	1.769	105.937	50.607	1.00	0.00	C
ATOM	9744	C	VAL	1026	3.388	103.497	50.424	1.00	0.00	C
ATOM	9745	O	VAL	1026	3.108	103.542	51.621	1.00	0.00	O
ATOM	9746	N	SER	1027	4.610	103.137	49.988	1.00	0.00	N
ATOM	9747	HN	SER	1027	4.846	103.202	48.998	1.00	0.00	H
ATOM	9748	CA	SER	1027	5.576	102.660	50.936	1.00	0.00	C
ATOM	9749	CB	SER	1027	5.827	101.145	50.812	1.00	0.00	C
ATOM	9750	OG	SER	1027	6.673	100.681	51.856	1.00	0.00	O
ATOM	9751	HG	SER	1027	6.828	99.747	51.780	1.00	0.00	H
ATOM	9752	C	SER	1027	6.876	103.382	50.739	1.00	0.00	C
ATOM	9753	O	SER	1027	6.999	104.247	49.871	1.00	0.00	O
ATOM	9754	N	GLN	1028	7.896	103.017	51.550	1.00	0.00	N
ATOM	9755	HN	GLN	1028	7.781	102.211	52.164	1.00	0.00	H
ATOM	9756	CA	GLN	1028	9.132	103.738	51.565	1.00	0.00	C
ATOM	9757	CB	GLN	1028	10.171	103.118	52.513	1.00	0.00	C
ATOM	9758	CG	GLN	1028	9.735	103.200	53.980	1.00	0.00	C
ATOM	9759	CD	GLN	1028	10.809	102.573	54.857	1.00	0.00	C
ATOM	9760	OE1	GLN	1028	10.508	101.871	55.821	1.00	0.00	O
ATOM	9761	NE2	GLN	1028	12.100	102.846	54.527	1.00	0.00	N
ATOM	9762	1HE2	GLN	1028	12.350	103.428	53.728	1.00	0.00	H
ATOM	9763	2HE2	GLN	1028	12.820	102.426	55.115	1.00	0.00	H
ATOM	9764	C	GLN	1028	9.703	103.796	50.189	1.00	0.00	C
ATOM	9765	O	GLN	1028	9.890	104.891	49.661	1.00	0.00	O

ATOM	9766	N	GLU	1029	9.934	102.645	49.532	1.00	0.00	N
ATOM	9767	HN	GLU	1029	9.763	101.738	49.967	1.00	0.00	H
ATOM	9768	CA	GLU	1029	10.432	102.752	48.192	1.00	0.00	C
ATOM	9769	CB	GLU	1029	11.432	101.686	47.749	1.00	0.00	C
ATOM	9770	CG	GLU	1029	12.865	101.999	48.137	1.00	0.00	C
ATOM	9771	CD	GLU	1029	13.692	101.247	47.118	1.00	0.00	C
ATOM	9772	OE1	GLU	1029	13.898	100.021	47.315	1.00	0.00	O
ATOM	9773	OE2	GLU	1029	14.104	101.887	46.114	1.00	0.00	O
ATOM	9774	C	GLU	1029	9.283	102.621	47.263	1.00	0.00	C
ATOM	9775	O	GLU	1029	8.626	101.587	47.171	1.00	0.00	O
ATOM	9776	N	PRO	1030	9.062	103.681	46.554	1.00	0.00	N
ATOM	9777	CA	PRO	1030	8.018	103.764	45.581	1.00	0.00	C
ATOM	9778	CD	PRO	1030	9.647	104.975	46.855	1.00	0.00	C
ATOM	9779	CB	PRO	1030	7.805	105.256	45.325	1.00	0.00	C
ATOM	9780	CG	PRO	1030	9.139	105.898	45.737	1.00	0.00	C
ATOM	9781	C	PRO	1030	8.548	103.056	44.383	1.00	0.00	C
ATOM	9782	O	PRO	1030	9.546	102.344	44.504	1.00	0.00	O
ATOM	9783	N	ILE	1031	7.824	103.127	43.255	1.00	0.00	N
ATOM	9784	HN	ILE	1031	6.909	103.577	43.259	1.00	0.00	H
ATOM	9785	CA	ILE	1031	8.348	102.565	42.045	1.00	0.00	C
ATOM	9786	CB	ILE	1031	8.644	101.100	42.163	1.00	0.00	C
ATOM	9787	CG1	ILE	1031	9.244	100.559	40.855	1.00	0.00	C
ATOM	9788	CG2	ILE	1031	7.347	100.397	42.595	1.00	0.00	C
ATOM	9789	CD1	ILE	1031	10.585	101.188	40.482	1.00	0.00	C
ATOM	9790	C	ILE	1031	7.342	102.749	40.958	1.00	0.00	C
ATOM	9791	O	ILE	1031	6.162	102.974	41.222	1.00	0.00	O
ATOM	9792	N	LEU	1032	7.791	102.678	39.688	1.00	0.00	N
ATOM	9793	HN	LEU	1032	8.786	102.557	39.501	1.00	0.00	H
ATOM	9794	CA	LEU	1032	6.857	102.774	38.603	1.00	0.00	C
ATOM	9795	CB	LEU	1032	6.648	104.205	38.075	1.00	0.00	C
ATOM	9796	CG	LEU	1032	6.253	105.257	39.121	1.00	0.00	C
ATOM	9797	CD1	LEU	1032	7.419	105.559	40.075	1.00	0.00	C
ATOM	9798	CD2	LEU	1032	5.722	106.526	38.441	1.00	0.00	C
ATOM	9799	C	LEU	1032	7.448	102.062	37.424	1.00	0.00	C
ATOM	9800	O	LEU	1032	8.639	102.190	37.144	1.00	0.00	O
ATOM	9801	N	PHE	1033	6.611	101.308	36.686	1.00	0.00	N
ATOM	9802	HN	PHE	1033	5.649	101.184	37.001	1.00	0.00	H
ATOM	9803	CA	PHE	1033	7.032	100.673	35.468	1.00	0.00	C
ATOM	9804	CB	PHE	1033	6.054	99.580	35.001	1.00	0.00	C
ATOM	9805	CG	PHE	1033	6.618	98.930	33.789	1.00	0.00	C
ATOM	9806	CD1	PHE	1033	7.825	98.276	33.858	1.00	0.00	C
ATOM	9807	CD2	PHE	1033	5.928	98.934	32.598	1.00	0.00	C
ATOM	9808	CE1	PHE	1033	8.351	97.664	32.746	1.00	0.00	C
ATOM	9809	CE2	PHE	1033	6.451	98.321	31.484	1.00	0.00	C
ATOM	9810	CZ	PHE	1033	7.667	97.686	31.555	1.00	0.00	C
ATOM	9811	C	PHE	1033	7.089	101.798	34.466	1.00	0.00	C
ATOM	9812	O	PHE	1033	6.423	102.815	34.642	1.00	0.00	O
ATOM	9813	N	ASP	1034	7.847	101.604	33.370	1.00	0.00	N
ATOM	9814	HN	ASP	1034	8.179	100.649	33.236	1.00	0.00	H
ATOM	9815	CA	ASP	1034	8.259	102.544	32.359	1.00	0.00	C
ATOM	9816	CB	ASP	1034	9.444	102.072	31.500	1.00	0.00	C
ATOM	9817	CG	ASP	1034	9.118	100.728	30.891	1.00	0.00	C
ATOM	9818	OD1	ASP	1034	8.150	100.637	30.091	1.00	0.00	O
ATOM	9819	OD2	ASP	1034	9.840	99.759	31.244	1.00	0.00	O
ATOM	9820	C	ASP	1034	7.200	103.167	31.497	1.00	0.00	C
ATOM	9821	O	ASP	1034	7.515	103.609	30.393	1.00	0.00	O
ATOM	9822	N	CYS	1035	5.911	103.092	31.864	1.00	0.00	N
ATOM	9823	HN	CYS	1035	5.620	102.533	32.666	1.00	0.00	H
ATOM	9824	CA	CYS	1035	4.955	103.832	31.081	1.00	0.00	C
ATOM	9825	CB	CYS	1035	3.492	103.516	31.435	1.00	0.00	C
ATOM	9826	SG	CYS	1035	3.068	101.772	31.148	1.00	0.00	S
ATOM	9827	C	CYS	1035	5.179	105.290	31.377	1.00	0.00	C
ATOM	9828	O	CYS	1035	5.948	105.645	32.269	1.00	0.00	O
ATOM	9829	N	SER	1036	4.540	106.191	30.599	1.00	0.00	N
ATOM	9830	HN	SER	1036	3.959	105.878	29.821	1.00	0.00	H
ATOM	9831	CA	SER	1036	4.685	107.592	30.875	1.00	0.00	C
ATOM	9832	CB	SER	1036	3.976	108.498	29.853	1.00	0.00	C
ATOM	9833	OG	SER	1036	2.576	108.261	29.876	1.00	0.00	O
ATOM	9834	HG	SER	1036	2.138	108.820	29.245	1.00	0.00	H
ATOM	9835	C	SER	1036	4.037	107.785	32.208	1.00	0.00	C
ATOM	9836	O	SER	1036	3.246	106.945	32.632	1.00	0.00	O
ATOM	9837	N	ILE	1037	4.348	108.888	32.920	1.00	0.00	N
ATOM	9838	HN	ILE	1037	4.964	109.607	32.542	1.00	0.00	H
ATOM	9839	CA	ILE	1037	3.778	109.008	34.229	1.00	0.00	C

ATOM	9840	CB	ILE	1037	4.227	110.163	35.093	1.00	0.00	C
ATOM	9841	CG1	ILE	1037	3.769	111.532	34.575	1.00	0.00	C
ATOM	9842	CG2	ILE	1037	5.752	110.040	35.252	1.00	0.00	C
ATOM	9843	CD1	ILE	1037	4.489	112.003	33.324	1.00	0.00	C
ATOM	9844	C	ILE	1037	2.295	109.069	34.088	1.00	0.00	C
ATOM	9845	O	ILE	1037	1.577	108.635	34.981	1.00	0.00	O
ATOM	9846	N	ALA	1038	1.778	109.622	32.976	1.00	0.00	N
ATOM	9847	HN	ALA	1038	2.393	109.971	32.241	1.00	0.00	H
ATOM	9848	CA	ALA	1038	0.353	109.717	32.832	1.00	0.00	C
ATOM	9849	CB	ALA	1038	-0.076	110.290	31.471	1.00	0.00	C
ATOM	9850	C	ALA	1038	-0.245	108.341	32.949	1.00	0.00	C
ATOM	9851	O	ALA	1038	-1.293	108.171	33.572	1.00	0.00	O
ATOM	9852	N	GLU	1039	0.382	107.326	32.322	1.00	0.00	N
ATOM	9853	HN	GLU	1039	1.224	107.528	31.782	1.00	0.00	H
ATOM	9854	CA	GLU	1039	-0.092	105.967	32.386	1.00	0.00	C
ATOM	9855	CB	GLU	1039	0.682	105.042	31.432	1.00	0.00	C
ATOM	9856	CG	GLU	1039	0.570	105.450	29.961	1.00	0.00	C
ATOM	9857	CD	GLU	1039	-0.883	105.310	29.530	1.00	0.00	C
ATOM	9858	OE1	GLU	1039	-1.750	105.986	30.144	1.00	0.00	O
ATOM	9859	OE2	GLU	1039	-1.145	104.526	28.580	1.00	0.00	O
ATOM	9860	C	GLU	1039	0.116	105.432	33.770	1.00	0.00	C
ATOM	9861	O	GLU	1039	-0.773	104.814	34.357	1.00	0.00	O
ATOM	9862	N	ASN	1040	1.309	105.665	34.349	1.00	0.00	N
ATOM	9863	HN	ASN	1040	2.031	106.212	33.880	1.00	0.00	H
ATOM	9864	CA	ASN	1040	1.519	105.112	35.648	1.00	0.00	C
ATOM	9865	CB	ASN	1040	2.981	105.057	36.155	1.00	0.00	C
ATOM	9866	CG	ASN	1040	3.765	106.335	35.936	1.00	0.00	C
ATOM	9867	OD1	ASN	1040	3.708	107.280	36.718	1.00	0.00	O
ATOM	9868	ND2	ASN	1040	4.580	106.325	34.849	1.00	0.00	N
ATOM	9869	1HD2	ASN	1040	5.108	107.185	34.702	1.00	0.00	H
ATOM	9870	2HD2	ASN	1040	4.627	105.540	34.199	1.00	0.00	H
ATOM	9871	C	ASN	1040	0.550	105.709	36.603	1.00	0.00	C
ATOM	9872	O	ASN	1040	-0.033	104.957	37.364	1.00	0.00	O
ATOM	9873	N	ILE	1041	0.254	107.021	36.530	1.00	0.00	N
ATOM	9874	HN	ILE	1041	0.732	107.595	35.835	1.00	0.00	H
ATOM	9875	CA	ILE	1041	-0.714	107.643	37.399	1.00	0.00	C
ATOM	9876	CB	ILE	1041	-1.160	108.997	36.915	1.00	0.00	C
ATOM	9877	CG1	ILE	1041	-0.015	110.007	36.725	1.00	0.00	C
ATOM	9878	CG2	ILE	1041	-2.243	109.481	37.891	1.00	0.00	C
ATOM	9879	CD1	ILE	1041	0.682	110.450	38.002	1.00	0.00	C
ATOM	9880	C	ILE	1041	-1.950	106.813	37.219	1.00	0.00	C
ATOM	9881	O	ILE	1041	-2.573	106.350	38.169	1.00	0.00	O
ATOM	9882	N	ALA	1042	-2.192	106.474	35.947	1.00	0.00	N
ATOM	9883	HN	ALA	1042	-1.497	106.788	35.270	1.00	0.00	H
ATOM	9884	CA	ALA	1042	-3.287	105.734	35.404	1.00	0.00	C
ATOM	9885	CB	ALA	1042	-3.311	105.700	33.866	1.00	0.00	C
ATOM	9886	C	ALA	1042	-3.320	104.332	35.916	1.00	0.00	C
ATOM	9887	O	ALA	1042	-4.220	103.610	35.494	1.00	0.00	O
ATOM	9888	N	TYR	1043	-2.284	103.892	36.685	1.00	0.00	N
ATOM	9889	HN	TYR	1043	-1.598	104.588	36.977	1.00	0.00	H
ATOM	9890	CA	TYR	1043	-2.064	102.530	37.127	1.00	0.00	C
ATOM	9891	CB	TYR	1043	-1.448	102.282	38.522	1.00	0.00	C
ATOM	9892	CG	TYR	1043	0.018	102.446	38.418	1.00	0.00	C
ATOM	9893	CD1	TYR	1043	0.711	101.751	37.456	1.00	0.00	C
ATOM	9894	CD2	TYR	1043	0.701	103.238	39.309	1.00	0.00	C
ATOM	9895	CE1	TYR	1043	2.071	101.890	37.340	1.00	0.00	C
ATOM	9896	CE2	TYR	1043	2.059	103.382	39.192	1.00	0.00	C
ATOM	9897	CZ	TYR	1043	2.738	102.716	38.207	1.00	0.00	C
ATOM	9898	OH	TYR	1043	4.130	102.873	38.098	1.00	0.00	O
ATOM	9899	HH	TYR	1043	4.592	103.445	38.699	1.00	0.00	H
ATOM	9900	C	TYR	1043	-3.295	101.731	37.147	1.00	0.00	C
ATOM	9901	O	TYR	1043	-4.131	101.897	38.028	1.00	0.00	O
ATOM	9902	N	GLY	1044	-3.447	101.003	36.023	1.00	0.00	N
ATOM	9903	HN	GLY	1044	-2.793	101.267	35.286	1.00	0.00	H
ATOM	9904	CA	GLY	1044	-4.328	99.938	35.636	1.00	0.00	C
ATOM	9905	C	GLY	1044	-4.838	99.143	36.791	1.00	0.00	C
ATOM	9906	O	GLY	1044	-4.674	97.927	36.786	1.00	0.00	O
ATOM	9907	N	ASP	1045	-5.512	99.765	37.762	1.00	0.00	N
ATOM	9908	HN	ASP	1045	-5.744	100.750	37.638	1.00	0.00	H
ATOM	9909	CA	ASP	1045	-5.923	99.117	38.965	1.00	0.00	C
ATOM	9910	CB	ASP	1045	-6.846	100.028	39.777	1.00	0.00	C
ATOM	9911	CG	ASP	1045	-6.217	101.410	39.755	1.00	0.00	C
ATOM	9912	OD1	ASP	1045	-5.120	101.598	40.345	1.00	0.00	O
ATOM	9913	OD2	ASP	1045	-6.840	102.305	39.123	1.00	0.00	O

ATOM	9914	C	ASP	1045	-6.786	98.004	38.506	1.00	0.00	C
ATOM	9915	O	ASP	1045	-6.779	96.903	39.053	1.00	0.00	O
ATOM	9916	N	ASN	1046	-7.559	98.299	37.453	1.00	0.00	N
ATOM	9917	HN	ASN	1046	-7.503	99.228	37.035	1.00	0.00	H
ATOM	9918	CA	ASN	1046	-8.459	97.338	36.905	1.00	0.00	C
ATOM	9919	CB	ASN	1046	-9.609	96.997	37.870	1.00	0.00	C
ATOM	9920	CG	ASN	1046	-10.250	98.295	38.345	1.00	0.00	C
ATOM	9921	OD1	ASN	1046	-10.907	99.006	37.588	1.00	0.00	O
ATOM	9922	ND2	ASN	1046	-10.051	98.613	39.652	1.00	0.00	N
ATOM	9923	1HD2	ASN	1046	-9.506	98.023	40.280	1.00	0.00	H
ATOM	9924	2HD2	ASN	1046	-10.480	99.482	39.970	1.00	0.00	H
ATOM	9925	C	ASN	1046	-9.007	97.917	35.647	1.00	0.00	C
ATOM	9926	O	ASN	1046	-8.311	98.607	34.903	1.00	0.00	O
ATOM	9927	N	SER	1047	-10.311	97.681	35.409	1.00	0.00	N
ATOM	9928	HN	SER	1047	-10.835	97.152	36.106	1.00	0.00	H
ATOM	9929	CA	SER	1047	-11.011	98.126	34.236	1.00	0.00	C
ATOM	9930	CB	SER	1047	-12.503	97.754	34.263	1.00	0.00	C
ATOM	9931	OG	SER	1047	-13.139	98.401	35.355	1.00	0.00	O
ATOM	9932	HG	SER	1047	-14.061	98.171	35.372	1.00	0.00	H
ATOM	9933	C	SER	1047	-10.933	99.617	34.168	1.00	0.00	C
ATOM	9934	O	SER	1047	-11.266	100.209	33.140	1.00	0.00	O
ATOM	9935	N	ARG	1048	-10.489	100.258	35.268	1.00	0.00	N
ATOM	9936	HN	ARG	1048	-10.228	99.706	36.085	1.00	0.00	H
ATOM	9937	CA	ARG	1048	-10.369	101.680	35.335	1.00	0.00	C
ATOM	9938	CB	ARG	1048	-9.559	102.146	36.556	1.00	0.00	C
ATOM	9939	CG	ARG	1048	-10.238	101.861	37.895	1.00	0.00	C
ATOM	9940	CD	ARG	1048	-10.909	103.099	38.489	1.00	0.00	C
ATOM	9941	NE	ARG	1048	-12.042	103.466	37.594	1.00	0.00	N
ATOM	9942	HE	ARG	1048	-12.598	102.736	37.149	1.00	0.00	H
ATOM	9943	CZ	ARG	1048	-12.336	104.780	37.369	1.00	0.00	C
ATOM	9944	NH1	ARG	1048	-11.556	105.757	37.915	1.00	0.00	N
ATOM	9945	1HH1	ARG	1048	-11.776	106.739	37.747	1.00	0.00	H
ATOM	9946	2HH1	ARG	1048	-10.760	105.504	38.500	1.00	0.00	H
ATOM	9947	NH2	ARG	1048	-13.401	105.119	36.586	1.00	0.00	N
ATOM	9948	1HH2	ARG	1048	-13.621	106.101	36.418	1.00	0.00	H
ATOM	9949	2HH2	ARG	1048	-13.984	104.389	36.178	1.00	0.00	H
ATOM	9950	C	ARG	1048	-9.619	102.142	34.127	1.00	0.00	C
ATOM	9951	O	ARG	1048	-8.449	101.819	33.930	1.00	0.00	O
ATOM	9952	N	VAL	1049	-10.314	102.930	33.287	1.00	0.00	N
ATOM	9953	HN	VAL	1049	-11.278	103.162	33.528	1.00	0.00	H
ATOM	9954	CA	VAL	1049	-9.772	103.460	32.073	1.00	0.00	C
ATOM	9955	CB	VAL	1049	-10.821	103.944	31.114	1.00	0.00	C
ATOM	9956	CG1	VAL	1049	-11.641	105.051	31.798	1.00	0.00	C
ATOM	9957	CG2	VAL	1049	-10.124	104.404	29.821	1.00	0.00	C
ATOM	9958	C	VAL	1049	-8.919	104.619	32.448	1.00	0.00	C
ATOM	9959	O	VAL	1049	-9.095	105.189	33.523	1.00	0.00	O
ATOM	9960	N	VAL	1050	-7.953	104.974	31.576	1.00	0.00	N
ATOM	9961	HN	VAL	1050	-7.853	104.466	30.697	1.00	0.00	H
ATOM	9962	CA	VAL	1050	-7.067	106.059	31.875	1.00	0.00	C
ATOM	9963	CB	VAL	1050	-5.905	106.131	30.921	1.00	0.00	C
ATOM	9964	CG1	VAL	1050	-5.009	107.323	31.301	1.00	0.00	C
ATOM	9965	CG2	VAL	1050	-5.175	104.775	30.934	1.00	0.00	C
ATOM	9966	C	VAL	1050	-7.846	107.335	31.759	1.00	0.00	C
ATOM	9967	O	VAL	1050	-7.721	108.075	30.785	1.00	0.00	O
ATOM	9968	N	SER	1051	-8.648	107.645	32.796	1.00	0.00	N
ATOM	9969	HN	SER	1051	-8.691	107.023	33.603	1.00	0.00	H
ATOM	9970	CA	SER	1051	-9.441	108.838	32.779	1.00	0.00	C
ATOM	9971	CB	SER	1051	-10.390	108.922	33.986	1.00	0.00	C
ATOM	9972	OG	SER	1051	-11.156	110.116	33.937	1.00	0.00	O
ATOM	9973	HG	SER	1051	-11.742	110.168	34.683	1.00	0.00	H
ATOM	9974	C	SER	1051	-8.477	109.976	32.857	1.00	0.00	C
ATOM	9975	O	SER	1051	-7.839	110.190	33.886	1.00	0.00	O
ATOM	9976	N	GLN	1052	-8.376	110.778	31.780	1.00	0.00	N
ATOM	9977	HN	GLN	1052	-9.006	110.679	30.984	1.00	0.00	H
ATOM	9978	CA	GLN	1052	-7.348	111.775	31.798	1.00	0.00	C
ATOM	9979	CB	GLN	1052	-7.179	112.555	30.477	1.00	0.00	C
ATOM	9980	CG	GLN	1052	-8.347	113.460	30.089	1.00	0.00	C
ATOM	9981	CD	GLN	1052	-7.920	114.265	28.876	1.00	0.00	C
ATOM	9982	OE1	GLN	1052	-6.771	114.181	28.446	1.00	0.00	O
ATOM	9983	NE2	GLN	1052	-8.859	115.071	28.310	1.00	0.00	N
ATOM	9984	1HE2	GLN	1052	-8.572	115.612	27.494	1.00	0.00	H
ATOM	9985	2HE2	GLN	1052	-9.812	115.141	28.667	1.00	0.00	H
ATOM	9986	C	GLN	1052	-7.586	112.754	32.897	1.00	0.00	C
ATOM	9987	O	GLN	1052	-6.692	113.000	33.706	1.00	0.00	O

ATOM	9988	N	GLU	1053	-8.825	113.265	33.009	1.00	0.00	N
ATOM	9989	HN	GLU	1053	-9.564	112.922	32.396	1.00	0.00	H
ATOM	9990	CA	GLU	1053	-9.128	114.282	33.972	1.00	0.00	C
ATOM	9991	CB	GLU	1053	-10.627	114.607	34.027	1.00	0.00	C
ATOM	9992	CG	GLU	1053	-11.231	114.852	32.649	1.00	0.00	C
ATOM	9993	CD	GLU	1053	-11.557	113.476	32.078	1.00	0.00	C
ATOM	9994	OE1	GLU	1053	-12.595	112.896	32.490	1.00	0.00	O
ATOM	9995	OE2	GLU	1053	-10.775	112.976	31.230	1.00	0.00	O
ATOM	9996	C	GLU	1053	-8.814	113.681	35.290	1.00	0.00	C
ATOM	9997	O	GLU	1053	-8.308	114.350	36.190	1.00	0.00	O
ATOM	9998	N	GLU	1054	-9.116	112.379	35.424	1.00	0.00	N
ATOM	9999	HN	GLU	1054	-9.506	111.854	34.642	1.00	0.00	H
ATOM	10000	CA	GLU	1054	-8.881	111.744	36.680	1.00	0.00	C
ATOM	10001	CB	GLU	1054	-9.354	110.290	36.762	1.00	0.00	C
ATOM	10002	CG	GLU	1054	-9.377	109.813	38.215	1.00	0.00	C
ATOM	10003	CD	GLU	1054	-9.523	108.308	38.224	1.00	0.00	C
ATOM	10004	OE1	GLU	1054	-8.862	107.660	37.372	1.00	0.00	O
ATOM	10005	OE2	GLU	1054	-10.285	107.786	39.080	1.00	0.00	O
ATOM	10006	C	GLU	1054	-7.410	111.746	36.963	1.00	0.00	C
ATOM	10007	O	GLU	1054	-6.998	112.114	38.061	1.00	0.00	O
ATOM	10008	N	ILE	1055	-6.578	111.410	35.954	1.00	0.00	N
ATOM	10009	HN	ILE	1055	-6.975	111.198	35.039	1.00	0.00	H
ATOM	10010	CA	ILE	1055	-5.150	111.341	36.124	1.00	0.00	C
ATOM	10011	CB	ILE	1055	-4.384	111.298	34.841	1.00	0.00	C
ATOM	10012	CG1	ILE	1055	-4.810	110.164	33.921	1.00	0.00	C
ATOM	10013	CG2	ILE	1055	-2.894	111.264	35.204	1.00	0.00	C
ATOM	10014	CD1	ILE	1055	-4.243	110.346	32.514	1.00	0.00	C
ATOM	10015	C	ILE	1055	-4.743	112.685	36.615	1.00	0.00	C
ATOM	10016	O	ILE	1055	-3.782	112.830	37.370	1.00	0.00	O
ATOM	10017	N	VAL	1056	-5.424	113.709	36.078	1.00	0.00	N
ATOM	10018	HN	VAL	1056	-6.147	113.498	35.390	1.00	0.00	H
ATOM	10019	CA	VAL	1056	-5.193	115.080	36.417	1.00	0.00	C
ATOM	10020	CB	VAL	1056	-5.983	116.024	35.561	1.00	0.00	C
ATOM	10021	CG1	VAL	1056	-5.697	117.462	36.028	1.00	0.00	C
ATOM	10022	CG2	VAL	1056	-5.622	115.762	34.089	1.00	0.00	C
ATOM	10023	C	VAL	1056	-5.584	115.310	37.841	1.00	0.00	C
ATOM	10024	O	VAL	1056	-4.894	116.018	38.574	1.00	0.00	O
ATOM	10025	N	ARG	1057	-6.707	114.710	38.278	1.00	0.00	N
ATOM	10026	HN	ARG	1057	-7.245	114.113	37.650	1.00	0.00	H
ATOM	10027	CA	ARG	1057	-7.145	114.911	39.628	1.00	0.00	C
ATOM	10028	CB	ARG	1057	-8.375	114.066	39.992	1.00	0.00	C
ATOM	10029	CG	ARG	1057	-9.638	114.521	39.276	1.00	0.00	C
ATOM	10030	CD	ARG	1057	-9.823	116.034	39.368	1.00	0.00	C
ATOM	10031	NE	ARG	1057	-11.098	116.373	38.687	1.00	0.00	N
ATOM	10032	HE	ARG	1057	-11.107	116.618	37.697	1.00	0.00	H
ATOM	10033	CZ	ARG	1057	-12.258	116.352	39.405	1.00	0.00	C
ATOM	10034	NH1	ARG	1057	-12.231	116.011	40.727	1.00	0.00	N
ATOM	10035	1HH1	ARG	1057	-13.098	115.995	41.264	1.00	0.00	H
ATOM	10036	2HH1	ARG	1057	-11.347	115.768	41.175	1.00	0.00	H
ATOM	10037	NH2	ARG	1057	-13.440	116.677	38.806	1.00	0.00	N
ATOM	10038	1HH2	ARG	1057	-14.307	116.661	39.343	1.00	0.00	H
ATOM	10039	2HH2	ARG	1057	-13.460	116.932	37.819	1.00	0.00	H
ATOM	10040	C	ARG	1057	-6.046	114.431	40.504	1.00	0.00	C
ATOM	10041	O	ARG	1057	-5.679	115.083	41.481	1.00	0.00	O
ATOM	10042	N	ALA	1058	-5.482	113.264	40.153	1.00	0.00	N
ATOM	10043	HN	ALA	1058	-5.798	112.779	39.313	1.00	0.00	H
ATOM	10044	CA	ALA	1058	-4.442	112.701	40.952	1.00	0.00	C
ATOM	10045	CB	ALA	1058	-3.925	111.373	40.383	1.00	0.00	C
ATOM	10046	C	ALA	1058	-3.287	113.633	40.972	1.00	0.00	C
ATOM	10047	O	ALA	1058	-2.887	114.067	42.040	1.00	0.00	O
ATOM	10048	N	ALA	1059	-2.804	114.078	39.802	1.00	0.00	N
ATOM	10049	HN	ALA	1059	-3.279	113.822	38.936	1.00	0.00	H
ATOM	10050	CA	ALA	1059	-1.633	114.907	39.743	1.00	0.00	C
ATOM	10051	CB	ALA	1059	-1.296	115.372	38.317	1.00	0.00	C
ATOM	10052	C	ALA	1059	-1.894	116.122	40.570	1.00	0.00	C
ATOM	10053	O	ALA	1059	-0.978	116.675	41.178	1.00	0.00	O
ATOM	10054	N	LYS	1060	-3.155	116.588	40.594	1.00	0.00	N
ATOM	10055	HN	LYS	1060	-3.899	116.124	40.072	1.00	0.00	H
ATOM	10056	CA	LYS	1060	-3.418	117.757	41.377	1.00	0.00	C
ATOM	10057	CB	LYS	1060	-4.844	118.283	41.169	1.00	0.00	C
ATOM	10058	CG	LYS	1060	-4.995	118.908	39.782	1.00	0.00	C
ATOM	10059	CD	LYS	1060	-6.435	119.168	39.354	1.00	0.00	C
ATOM	10060	CE	LYS	1060	-6.545	119.849	37.987	1.00	0.00	C
ATOM	10061	NZ	LYS	1060	-6.108	121.260	38.085	1.00	0.00	N

ATOM	10062	HZ1	LYS	1060	-6.181	121.714	37.174	1.00	0.00	H
ATOM	10063	HZ2	LYS	1060	-5.171	121.343	38.478	1.00	0.00	H
ATOM	10064	HZ3	LYS	1060	-6.619	121.768	38.807	1.00	0.00	H
ATOM	10065	C	LYS	1060	-3.181	117.527	42.847	1.00	0.00	C
ATOM	10066	O	LYS	1060	-2.248	118.089	43.415	1.00	0.00	O
ATOM	10067	N	GLU	1061	-3.946	116.617	43.486	1.00	0.00	N
ATOM	10068	HN	GLU	1061	-4.603	116.059	42.941	1.00	0.00	H
ATOM	10069	CA	GLU	1061	-3.869	116.404	44.912	1.00	0.00	C
ATOM	10070	CB	GLU	1061	-4.925	115.400	45.412	1.00	0.00	C
ATOM	10071	CG	GLU	1061	-5.544	115.724	46.780	1.00	0.00	C
ATOM	10072	CD	GLU	1061	-4.484	116.144	47.790	1.00	0.00	C
ATOM	10073	OE1	GLU	1061	-3.807	117.178	47.546	1.00	0.00	O
ATOM	10074	OE2	GLU	1061	-4.358	115.451	48.835	1.00	0.00	O
ATOM	10075	C	GLU	1061	-2.520	115.824	45.200	1.00	0.00	C
ATOM	10076	O	GLU	1061	-1.970	115.955	46.292	1.00	0.00	O
ATOM	10077	N	ALA	1062	-1.978	115.110	44.205	1.00	0.00	N
ATOM	10078	HN	ALA	1062	-2.507	115.029	43.337	1.00	0.00	H
ATOM	10079	CA	ALA	1062	-0.709	114.453	44.274	1.00	0.00	C
ATOM	10080	CB	ALA	1062	-0.343	113.693	42.989	1.00	0.00	C
ATOM	10081	C	ALA	1062	0.327	115.506	44.477	1.00	0.00	C
ATOM	10082	O	ALA	1062	1.253	115.327	45.265	1.00	0.00	O
ATOM	10083	N	ASN	1063	0.156	116.658	43.801	1.00	0.00	N
ATOM	10084	HN	ASN	1063	-0.672	116.764	43.215	1.00	0.00	H
ATOM	10085	CA	ASN	1063	1.094	117.742	43.873	1.00	0.00	C
ATOM	10086	CB	ASN	1063	1.531	118.056	45.314	1.00	0.00	C
ATOM	10087	CG	ASN	1063	0.311	118.548	46.079	1.00	0.00	C
ATOM	10088	OD1	ASN	1063	-0.246	119.601	45.776	1.00	0.00	O
ATOM	10089	ND2	ASN	1063	-0.124	117.761	47.099	1.00	0.00	N
ATOM	10090	1HD2	ASN	1063	0.338	116.887	47.350	1.00	0.00	H
ATOM	10091	2HD2	ASN	1063	-0.942	118.091	47.612	1.00	0.00	H
ATOM	10092	C	ASN	1063	2.317	117.395	43.080	1.00	0.00	C
ATOM	10093	O	ASN	1063	3.385	117.976	43.267	1.00	0.00	O
ATOM	10094	N	ILE	1064	2.188	116.381	42.210	1.00	0.00	N
ATOM	10095	HN	ILE	1064	1.326	115.839	42.264	1.00	0.00	H
ATOM	10096	CA	ILE	1064	3.139	115.981	41.211	1.00	0.00	C
ATOM	10097	CB	ILE	1064	2.887	114.608	40.662	1.00	0.00	C
ATOM	10098	CG1	ILE	1064	4.026	114.207	39.709	1.00	0.00	C
ATOM	10099	CG2	ILE	1064	1.493	114.598	40.016	1.00	0.00	C
ATOM	10100	CD1	ILE	1064	5.390	114.120	40.393	1.00	0.00	C
ATOM	10101	C	ILE	1064	3.026	116.965	40.095	1.00	0.00	C
ATOM	10102	O	ILE	1064	3.917	117.121	39.260	1.00	0.00	O
ATOM	10103	N	HIS	1065	1.857	117.620	40.049	1.00	0.00	N
ATOM	10104	HN	HIS	1065	1.213	117.479	40.828	1.00	0.00	H
ATOM	10105	CA	HIS	1065	1.434	118.499	39.004	1.00	0.00	C
ATOM	10106	ND1	HIS	1065	-0.252	120.678	37.306	1.00	0.00	N
ATOM	10107	HD1	HIS	1065	0.602	121.231	37.384	1.00	0.00	H
ATOM	10108	CG	HIS	1065	-0.657	119.669	38.149	1.00	0.00	C
ATOM	10109	CB	HIS	1065	0.105	119.194	39.350	1.00	0.00	C
ATOM	10110	NE2	HIS	1065	-2.197	119.935	36.522	1.00	0.00	N
ATOM	10111	HE2	HIS	1065	-3.031	119.819	35.946	1.00	0.00	H
ATOM	10112	CD2	HIS	1065	-1.847	119.227	37.656	1.00	0.00	C
ATOM	10113	CE1	HIS	1065	-1.209	120.795	36.351	1.00	0.00	C
ATOM	10114	C	HIS	1065	2.480	119.555	38.810	1.00	0.00	C
ATOM	10115	O	HIS	1065	2.607	120.094	37.714	1.00	0.00	O
ATOM	10116	N	ALA	1066	3.263	119.884	39.857	1.00	0.00	N
ATOM	10117	HN	ALA	1066	3.146	119.403	40.749	1.00	0.00	H
ATOM	10118	CA	ALA	1066	4.262	120.910	39.723	1.00	0.00	C
ATOM	10119	CB	ALA	1066	5.140	121.056	40.978	1.00	0.00	C
ATOM	10120	C	ALA	1066	5.164	120.529	38.587	1.00	0.00	C
ATOM	10121	O	ALA	1066	5.597	121.388	37.821	1.00	0.00	O
ATOM	10122	N	PHE	1067	5.505	119.231	38.484	1.00	0.00	N
ATOM	10123	HN	PHE	1067	5.200	118.594	39.220	1.00	0.00	H
ATOM	10124	CA	PHE	1067	6.274	118.691	37.396	1.00	0.00	C
ATOM	10125	CB	PHE	1067	6.829	117.292	37.703	1.00	0.00	C
ATOM	10126	CG	PHE	1067	7.938	117.511	38.671	1.00	0.00	C
ATOM	10127	CD1	PHE	1067	7.669	117.821	39.983	1.00	0.00	C
ATOM	10128	CD2	PHE	1067	9.248	117.407	38.262	1.00	0.00	C
ATOM	10129	CE1	PHE	1067	8.695	118.028	40.873	1.00	0.00	C
ATOM	10130	CE2	PHE	1067	10.278	117.611	39.148	1.00	0.00	C
ATOM	10131	CZ	PHE	1067	10.001	117.924	40.456	1.00	0.00	C
ATOM	10132	C	PHE	1067	5.424	118.615	36.165	1.00	0.00	C
ATOM	10133	O	PHE	1067	5.906	118.786	35.047	1.00	0.00	O
ATOM	10134	N	ILE	1068	4.126	118.320	36.351	1.00	0.00	N
ATOM	10135	HN	ILE	1068	3.784	118.234	37.308	1.00	0.00	H

ATOM	10136	CA	ILE	1068	3.195	118.120	35.280	1.00	0.00	C
ATOM	10137	CB	ILE	1068	1.846	117.699	35.784	1.00	0.00	C
ATOM	10138	CG1	ILE	1068	1.979	116.405	36.605	1.00	0.00	C
ATOM	10139	CG2	ILE	1068	0.889	117.592	34.588	1.00	0.00	C
ATOM	10140	CD1	ILE	1068	2.721	115.287	35.878	1.00	0.00	C
ATOM	10141	C	ILE	1068	3.006	119.375	34.488	1.00	0.00	C
ATOM	10142	O	ILE	1068	2.915	119.332	33.263	1.00	0.00	O
ATOM	10143	N	GLU	1069	2.917	120.535	35.159	1.00	0.00	N
ATOM	10144	HN	GLU	1069	3.067	120.563	36.168	1.00	0.00	H
ATOM	10145	CA	GLU	1069	2.609	121.732	34.437	1.00	0.00	C
ATOM	10146	CB	GLU	1069	2.598	122.971	35.349	1.00	0.00	C
ATOM	10147	CG	GLU	1069	1.532	122.947	36.446	1.00	0.00	C
ATOM	10148	CD	GLU	1069	1.743	124.189	37.301	1.00	0.00	C
ATOM	10149	OE1	GLU	1069	1.220	125.270	36.919	1.00	0.00	O
ATOM	10150	OE2	GLU	1069	2.441	124.074	38.344	1.00	0.00	O
ATOM	10151	C	GLU	1069	3.654	122.012	33.397	1.00	0.00	C
ATOM	10152	O	GLU	1069	3.340	122.113	32.212	1.00	0.00	O
ATOM	10153	N	SER	1070	4.917	122.194	33.832	1.00	0.00	N
ATOM	10154	HN	SER	1070	5.119	122.066	34.824	1.00	0.00	H
ATOM	10155	CA	SER	1070	5.988	122.562	32.948	1.00	0.00	C
ATOM	10156	CB	SER	1070	7.095	123.333	33.683	1.00	0.00	C
ATOM	10157	OG	SER	1070	8.129	123.678	32.775	1.00	0.00	O
ATOM	10158	HG	SER	1070	8.814	124.155	33.230	1.00	0.00	H
ATOM	10159	C	SER	1070	6.647	121.434	32.221	1.00	0.00	C
ATOM	10160	O	SER	1070	6.365	121.195	31.047	1.00	0.00	O
ATOM	10161	N	LEU	1071	7.449	120.655	32.993	1.00	0.00	N
ATOM	10162	HN	LEU	1071	7.338	120.757	34.002	1.00	0.00	H
ATOM	10163	CA	LEU	1071	8.439	119.700	32.556	1.00	0.00	C
ATOM	10164	CB	LEU	1071	8.689	118.566	33.567	1.00	0.00	C
ATOM	10165	CG	LEU	1071	9.314	119.043	34.893	1.00	0.00	C
ATOM	10166	CD1	LEU	1071	10.718	119.626	34.668	1.00	0.00	C
ATOM	10167	CD2	LEU	1071	8.382	120.004	35.646	1.00	0.00	C
ATOM	10168	C	LEU	1071	8.057	119.094	31.253	1.00	0.00	C
ATOM	10169	O	LEU	1071	6.947	118.607	31.051	1.00	0.00	O
ATOM	10170	N	PRO	1072	9.033	119.135	30.379	1.00	0.00	N
ATOM	10171	CA	PRO	1072	8.893	118.800	28.993	1.00	0.00	C
ATOM	10172	CD	PRO	1072	10.418	119.332	30.774	1.00	0.00	C
ATOM	10173	CB	PRO	1072	10.316	118.670	28.448	1.00	0.00	C
ATOM	10174	CG	PRO	1072	11.182	119.462	29.445	1.00	0.00	C
ATOM	10175	C	PRO	1072	8.095	117.560	28.805	1.00	0.00	C
ATOM	10176	O	PRO	1072	8.227	116.631	29.596	1.00	0.00	O
ATOM	10177	N	ASN	1073	7.214	117.574	27.790	1.00	0.00	N
ATOM	10178	HN	ASN	1073	7.140	118.426	27.234	1.00	0.00	H
ATOM	10179	CA	ASN	1073	6.374	116.471	27.440	1.00	0.00	C
ATOM	10180	CB	ASN	1073	7.163	115.159	27.267	1.00	0.00	C
ATOM	10181	CG	ASN	1073	8.024	115.275	26.014	1.00	0.00	C
ATOM	10182	OD1	ASN	1073	7.516	115.494	24.915	1.00	0.00	O
ATOM	10183	ND2	ASN	1073	9.366	115.131	26.181	1.00	0.00	N
ATOM	10184	1HD2	ASN	1073	9.942	115.209	25.343	1.00	0.00	H
ATOM	10185	2HD2	ASN	1073	9.787	114.949	27.092	1.00	0.00	H
ATOM	10186	C	ASN	1073	5.340	116.255	28.506	1.00	0.00	C
ATOM	10187	O	ASN	1073	4.435	115.446	28.314	1.00	0.00	O
ATOM	10188	N	LYS	1074	5.400	117.017	29.619	1.00	0.00	N
ATOM	10189	HN	LYS	1074	6.162	117.688	29.719	1.00	0.00	H
ATOM	10190	CA	LYS	1074	4.418	116.910	30.670	1.00	0.00	C
ATOM	10191	CB	LYS	1074	3.080	117.566	30.306	1.00	0.00	C
ATOM	10192	CG	LYS	1074	3.207	119.062	30.032	1.00	0.00	C
ATOM	10193	CD	LYS	1074	1.972	119.650	29.355	1.00	0.00	C
ATOM	10194	CE	LYS	1074	2.084	121.149	29.080	1.00	0.00	C
ATOM	10195	NZ	LYS	1074	0.848	121.630	28.425	1.00	0.00	N
ATOM	10196	HZ1	LYS	1074	0.923	122.631	28.241	1.00	0.00	H
ATOM	10197	HZ2	LYS	1074	0.013	121.400	28.964	1.00	0.00	H
ATOM	10198	HZ3	LYS	1074	0.629	121.100	27.581	1.00	0.00	H
ATOM	10199	C	LYS	1074	4.148	115.470	31.020	1.00	0.00	C
ATOM	10200	O	LYS	1074	5.060	114.656	31.159	1.00	0.00	O
ATOM	10201	N	TYR	1075	2.846	115.127	31.124	1.00	0.00	N
ATOM	10202	HN	TYR	1075	2.142	115.838	30.925	1.00	0.00	H
ATOM	10203	CA	TYR	1075	2.399	113.811	31.501	1.00	0.00	C
ATOM	10204	CB	TYR	1075	0.878	113.558	31.431	1.00	0.00	C
ATOM	10205	CG	TYR	1075	0.116	114.183	32.553	1.00	0.00	C
ATOM	10206	CD1	TYR	1075	0.150	113.627	33.812	1.00	0.00	C
ATOM	10207	CD2	TYR	1075	-0.635	115.317	32.350	1.00	0.00	C
ATOM	10208	CE1	TYR	1075	-0.558	114.186	34.850	1.00	0.00	C
ATOM	10209	CE2	TYR	1075	-1.347	115.881	33.382	1.00	0.00	C

ATOM	10210	CZ	TYR	1075	-1.310	115.317	34.633	1.00	0.00	C
ATOM	10211	OH	TYR	1075	-2.044	115.902	35.687	1.00	0.00	O
ATOM	10212	HH	TYR	1075	-2.018	115.512	36.553	1.00	0.00	H
ATOM	10213	C	TYR	1075	2.966	112.796	30.556	1.00	0.00	C
ATOM	10214	O	TYR	1075	3.204	111.653	30.943	1.00	0.00	O
ATOM	10215	N	SER	1076	3.148	113.159	29.276	1.00	0.00	N
ATOM	10216	HN	SER	1076	2.967	114.120	28.985	1.00	0.00	H
ATOM	10217	CA	SER	1076	3.599	112.188	28.317	1.00	0.00	C
ATOM	10218	CB	SER	1076	3.681	112.718	26.872	1.00	0.00	C
ATOM	10219	OG	SER	1076	4.853	113.498	26.691	1.00	0.00	O
ATOM	10220	HG	SER	1076	4.904	113.825	25.800	1.00	0.00	H
ATOM	10221	C	SER	1076	4.969	111.704	28.681	1.00	0.00	C
ATOM	10222	O	SER	1076	5.382	110.633	28.240	1.00	0.00	O
ATOM	10223	N	THR	1077	5.709	112.472	29.505	1.00	0.00	N
ATOM	10224	HN	THR	1077	5.313	113.328	29.893	1.00	0.00	H
ATOM	10225	CA	THR	1077	7.054	112.091	29.839	1.00	0.00	C
ATOM	10226	CB	THR	1077	7.661	112.955	30.899	1.00	0.00	C
ATOM	10227	OG1	THR	1077	7.613	114.312	30.502	1.00	0.00	O
ATOM	10228	HG1	THR	1077	7.998	114.861	31.175	1.00	0.00	H
ATOM	10229	CG2	THR	1077	9.120	112.521	31.123	1.00	0.00	C
ATOM	10230	C	THR	1077	7.049	110.716	30.414	1.00	0.00	C
ATOM	10231	O	THR	1077	6.414	110.445	31.431	1.00	0.00	O
ATOM	10232	N	LYS	1078	7.798	109.804	29.776	1.00	0.00	N
ATOM	10233	HN	LYS	1078	8.309	110.056	28.930	1.00	0.00	H
ATOM	10234	CA	LYS	1078	7.871	108.476	30.297	1.00	0.00	C
ATOM	10235	CB	LYS	1078	8.737	107.494	29.491	1.00	0.00	C
ATOM	10236	CG	LYS	1078	8.159	107.002	28.171	1.00	0.00	C
ATOM	10237	CD	LYS	1078	9.175	106.206	27.347	1.00	0.00	C
ATOM	10238	CE	LYS	1078	9.617	104.900	28.016	1.00	0.00	C
ATOM	10239	NZ	LYS	1078	10.558	104.167	27.138	1.00	0.00	N
ATOM	10240	HZ1	LYS	1078	10.852	103.298	27.583	1.00	0.00	H
ATOM	10241	HZ2	LYS	1078	11.354	104.744	26.867	1.00	0.00	H
ATOM	10242	HZ3	LYS	1078	10.166	104.006	26.210	1.00	0.00	H
ATOM	10243	C	LYS	1078	8.604	108.599	31.577	1.00	0.00	C
ATOM	10244	O	LYS	1078	9.248	109.605	31.861	1.00	0.00	O
ATOM	10245	N	VAL	1079	8.552	107.532	32.379	1.00	0.00	N
ATOM	10246	HN	VAL	1079	7.980	106.729	32.115	1.00	0.00	H
ATOM	10247	CA	VAL	1079	9.286	107.504	33.597	1.00	0.00	C
ATOM	10248	CB	VAL	1079	9.039	106.253	34.381	1.00	0.00	C
ATOM	10249	CG1	VAL	1079	9.291	105.049	33.485	1.00	0.00	C
ATOM	10250	CG2	VAL	1079	9.940	106.268	35.612	1.00	0.00	C
ATOM	10251	C	VAL	1079	10.724	107.657	33.197	1.00	0.00	C
ATOM	10252	O	VAL	1079	11.556	108.075	33.998	1.00	0.00	O
ATOM	10253	N	GLY	1080	11.054	107.294	31.938	1.00	0.00	N
ATOM	10254	HN	GLY	1080	10.364	106.818	31.356	1.00	0.00	H
ATOM	10255	CA	GLY	1080	12.356	107.566	31.406	1.00	0.00	C
ATOM	10256	C	GLY	1080	13.401	106.694	32.015	1.00	0.00	C
ATOM	10257	O	GLY	1080	13.977	107.021	33.050	1.00	0.00	O
ATOM	10258	N	ASP	1081	13.688	105.564	31.340	1.00	0.00	N
ATOM	10259	HN	ASP	1081	13.165	105.365	30.487	1.00	0.00	H
ATOM	10260	CA	ASP	1081	14.691	104.626	31.757	1.00	0.00	C
ATOM	10261	CB	ASP	1081	16.079	105.273	31.922	1.00	0.00	C
ATOM	10262	CG	ASP	1081	17.112	104.166	32.090	1.00	0.00	C
ATOM	10263	OD1	ASP	1081	16.713	102.972	32.033	1.00	0.00	O
ATOM	10264	OD2	ASP	1081	18.311	104.498	32.286	1.00	0.00	O
ATOM	10265	C	ASP	1081	14.299	103.994	33.050	1.00	0.00	C
ATOM	10266	O	ASP	1081	15.126	103.732	33.922	1.00	0.00	O
ATOM	10267	N	LYS	1082	12.997	103.707	33.180	1.00	0.00	N
ATOM	10268	HN	LYS	1082	12.357	104.003	32.443	1.00	0.00	H
ATOM	10269	CA	LYS	1082	12.464	103.004	34.306	1.00	0.00	C
ATOM	10270	CB	LYS	1082	13.165	101.660	34.558	1.00	0.00	C
ATOM	10271	CG	LYS	1082	12.926	100.661	33.426	1.00	0.00	C
ATOM	10272	CD	LYS	1082	13.502	101.141	32.095	1.00	0.00	C
ATOM	10273	CE	LYS	1082	13.059	100.302	30.899	1.00	0.00	C
ATOM	10274	NZ	LYS	1082	13.122	101.126	29.673	1.00	0.00	N
ATOM	10275	HZ1	LYS	1082	12.826	100.565	28.874	1.00	0.00	H
ATOM	10276	HZ2	LYS	1082	14.043	101.541	29.534	1.00	0.00	H
ATOM	10277	HZ3	LYS	1082	12.585	101.989	29.760	1.00	0.00	H
ATOM	10278	C	LYS	1082	12.539	103.819	35.557	1.00	0.00	C
ATOM	10279	O	LYS	1082	12.335	103.271	36.639	1.00	0.00	O
ATOM	10280	N	GLY	1083	12.749	105.151	35.457	1.00	0.00	N
ATOM	10281	HN	GLY	1083	12.965	105.591	34.562	1.00	0.00	H
ATOM	10282	CA	GLY	1083	12.654	105.919	36.666	1.00	0.00	C
ATOM	10283	C	GLY	1083	13.723	106.950	36.869	1.00	0.00	C

ATOM	10284	O	GLY	1083	13.364	108.121	36.963	1.00	0.00	O
ATOM	10285	N	THR	1084	15.027	106.593	36.886	1.00	0.00	N
ATOM	10286	HN	THR	1084	15.293	105.644	36.623	1.00	0.00	H
ATOM	10287	CA	THR	1084	16.046	107.539	37.272	1.00	0.00	C
ATOM	10288	CB	THR	1084	17.444	106.988	37.158	1.00	0.00	C
ATOM	10289	OG1	THR	1084	18.388	107.957	37.586	1.00	0.00	O
ATOM	10290	HG1	THR	1084	19.269	107.610	37.514	1.00	0.00	H
ATOM	10291	CG2	THR	1084	17.729	106.559	35.709	1.00	0.00	C
ATOM	10292	C	THR	1084	15.952	108.817	36.490	1.00	0.00	C
ATOM	10293	O	THR	1084	16.395	108.918	35.347	1.00	0.00	O
ATOM	10294	N	GLN	1085	15.336	109.843	37.116	1.00	0.00	N
ATOM	10295	HN	GLN	1085	14.947	109.706	38.049	1.00	0.00	H
ATOM	10296	CA	GLN	1085	15.225	111.121	36.480	1.00	0.00	C
ATOM	10297	CB	GLN	1085	14.422	111.078	35.173	1.00	0.00	C
ATOM	10298	CG	GLN	1085	12.957	110.692	35.372	1.00	0.00	C
ATOM	10299	OE1	GLN	1085	12.289	110.719	34.007	1.00	0.00	C
ATOM	10300	NE2	GLN	1085	12.843	110.234	33.022	1.00	0.00	O
ATOM	10301	NE2	GLN	1085	11.065	111.308	33.943	1.00	0.00	N
ATOM	10302	1HE2	GLN	1085	10.606	111.710	34.760	1.00	0.00	H
ATOM	10303	2HE2	GLN	1085	10.617	111.326	33.027	1.00	0.00	H
ATOM	10304	C	GLN	1085	14.503	112.059	37.405	1.00	0.00	C
ATOM	10305	O	GLN	1085	14.433	113.254	37.132	1.00	0.00	O
ATOM	10306	N	LEU	1086	13.904	111.544	38.502	1.00	0.00	N
ATOM	10307	HN	LEU	1086	13.922	110.536	38.659	1.00	0.00	H
ATOM	10308	CA	LEU	1086	13.240	112.401	39.452	1.00	0.00	C
ATOM	10309	CB	LEU	1086	11.718	112.583	39.275	1.00	0.00	C
ATOM	10310	CG	LEU	1086	11.289	113.648	38.245	1.00	0.00	C
ATOM	10311	CD1	LEU	1086	11.758	115.050	38.663	1.00	0.00	C
ATOM	10312	CD2	LEU	1086	11.705	113.288	36.822	1.00	0.00	C
ATOM	10313	C	LEU	1086	13.445	111.889	40.843	1.00	0.00	C
ATOM	10314	O	LEU	1086	13.540	110.685	41.081	1.00	0.00	O
ATOM	10315	N	SER	1087	13.485	112.820	41.817	1.00	0.00	N
ATOM	10316	HN	SER	1087	13.342	113.804	41.589	1.00	0.00	H
ATOM	10317	CA	SER	1087	13.728	112.427	43.171	1.00	0.00	C
ATOM	10318	CB	SER	1087	14.064	113.578	44.140	1.00	0.00	C
ATOM	10319	OG	SER	1087	12.906	114.332	44.453	1.00	0.00	O
ATOM	10320	HG	SER	1087	13.113	115.041	45.050	1.00	0.00	H
ATOM	10321	C	SER	1087	12.528	111.711	43.689	1.00	0.00	C
ATOM	10322	O	SER	1087	11.439	111.761	43.119	1.00	0.00	O
ATOM	10323	N	GLY	1088	12.724	111.016	44.818	1.00	0.00	N
ATOM	10324	HN	GLY	1088	13.635	111.073	45.273	1.00	0.00	H
ATOM	10325	CA	GLY	1088	11.713	110.198	45.413	1.00	0.00	C
ATOM	10326	C	GLY	1088	10.550	111.051	45.796	1.00	0.00	C
ATOM	10327	O	GLY	1088	9.414	110.577	45.810	1.00	0.00	O
ATOM	10328	N	GLY	1089	10.800	112.326	46.155	1.00	0.00	N
ATOM	10329	HN	GLY	1089	11.746	112.705	46.107	1.00	0.00	H
ATOM	10330	CA	GLY	1089	9.709	113.138	46.606	1.00	0.00	C
ATOM	10331	C	GLY	1089	8.672	113.208	45.532	1.00	0.00	C
ATOM	10332	O	GLY	1089	7.493	112.967	45.788	1.00	0.00	O
ATOM	10333	N	GLN	1090	9.090	113.504	44.289	1.00	0.00	N
ATOM	10334	HN	GLN	1090	10.082	113.664	44.115	1.00	0.00	H
ATOM	10335	CA	GLN	1090	8.154	113.597	43.205	1.00	0.00	C
ATOM	10336	CB	GLN	1090	8.815	113.929	41.853	1.00	0.00	C
ATOM	10337	CG	GLN	1090	9.445	115.319	41.758	1.00	0.00	C
ATOM	10338	CD	GLN	1090	10.736	115.332	42.558	1.00	0.00	C
ATOM	10339	OE1	GLN	1090	10.716	115.494	43.776	1.00	0.00	O
ATOM	10340	NE2	GLN	1090	11.889	115.166	41.855	1.00	0.00	N
ATOM	10341	1HE2	GLN	1090	11.906	115.032	40.844	1.00	0.00	H
ATOM	10342	2HE2	GLN	1090	12.756	115.175	42.392	1.00	0.00	H
ATOM	10343	C	GLN	1090	7.538	112.248	43.035	1.00	0.00	C
ATOM	10344	O	GLN	1090	6.334	112.117	42.815	1.00	0.00	O
ATOM	10345	N	LYS	1091	8.363	111.194	43.167	1.00	0.00	N
ATOM	10346	HN	LYS	1091	9.338	111.339	43.429	1.00	0.00	H
ATOM	10347	CA	LYS	1091	7.872	109.867	42.940	1.00	0.00	C
ATOM	10348	CB	LYS	1091	8.934	108.785	43.187	1.00	0.00	C
ATOM	10349	CG	LYS	1091	10.100	108.838	42.199	1.00	0.00	C
ATOM	10350	CD	LYS	1091	11.284	107.961	42.609	1.00	0.00	C
ATOM	10351	CE	LYS	1091	11.132	106.500	42.183	1.00	0.00	C
ATOM	10352	NZ	LYS	1091	11.388	106.374	40.731	1.00	0.00	N
ATOM	10353	HZ1	LYS	1091	11.287	105.400	40.447	1.00	0.00	H
ATOM	10354	HZ2	LYS	1091	12.295	106.759	40.466	1.00	0.00	H
ATOM	10355	HZ3	LYS	1091	10.797	106.998	40.181	1.00	0.00	H
ATOM	10356	C	LYS	1091	6.732	109.610	43.875	1.00	0.00	C
ATOM	10357	O	LYS	1091	5.671	109.152	43.453	1.00	0.00	O

ATOM	10358	N	GLN	1092	6.898	109.954	45.164	1.00	0.00	N
ATOM	10359	HN	GLN	1092	7.768	110.397	45.460	1.00	0.00	H
ATOM	10360	CA	GLN	1092	5.864	109.704	46.128	1.00	0.00	C
ATOM	10361	CB	GLN	1092	6.244	110.131	47.556	1.00	0.00	C
ATOM	10362	CG	GLN	1092	7.267	109.199	48.207	1.00	0.00	C
ATOM	10363	CD	GLN	1092	6.601	107.836	48.337	1.00	0.00	C
ATOM	10364	OE1	GLN	1092	6.156	107.254	47.349	1.00	0.00	O
ATOM	10365	NE2	GLN	1092	6.518	107.315	49.590	1.00	0.00	N
ATOM	10366	1HE2	GLN	1092	6.887	107.798	50.409	1.00	0.00	H
ATOM	10367	2HE2	GLN	1092	6.072	106.402	49.677	1.00	0.00	H
ATOM	10368	C	GLN	1092	4.651	110.469	45.716	1.00	0.00	C
ATOM	10369	O	GLN	1092	3.524	110.031	45.938	1.00	0.00	O
ATOM	10370	N	ARG	1093	4.846	111.650	45.107	1.00	0.00	N
ATOM	10371	HN	ARG	1093	5.789	112.005	44.949	1.00	0.00	H
ATOM	10372	CA	ARG	1093	3.704	112.400	44.685	1.00	0.00	C
ATOM	10373	CB	ARG	1093	4.090	113.709	43.978	1.00	0.00	C
ATOM	10374	CG	ARG	1093	4.640	114.753	44.951	1.00	0.00	C
ATOM	10375	CD	ARG	1093	5.190	116.017	44.290	1.00	0.00	C
ATOM	10376	NE	ARG	1093	5.454	116.990	45.388	1.00	0.00	N
ATOM	10377	HE	ARG	1093	4.710	117.224	46.046	1.00	0.00	H
ATOM	10378	CZ	ARG	1093	6.681	117.571	45.522	1.00	0.00	C
ATOM	10379	NH1	ARG	1093	7.686	117.253	44.656	1.00	0.00	N
ATOM	10380	1HH1	ARG	1093	8.603	117.687	44.756	1.00	0.00	H
ATOM	10381	2HH1	ARG	1093	7.516	116.585	43.904	1.00	0.00	H
ATOM	10382	NH2	ARG	1093	6.908	118.465	46.528	1.00	0.00	N
ATOM	10383	1HH2	ARG	1093	7.825	118.899	46.628	1.00	0.00	H
ATOM	10384	2HH2	ARG	1093	6.157	118.703	47.175	1.00	0.00	H
ATOM	10385	C	ARG	1093	2.929	111.553	43.722	1.00	0.00	C
ATOM	10386	O	ARG	1093	1.702	111.491	43.787	1.00	0.00	O
ATOM	10387	N	ILE	1094	3.632	110.866	42.805	1.00	0.00	N
ATOM	10388	HN	ILE	1094	4.650	110.922	42.815	1.00	0.00	H
ATOM	10389	CA	ILE	1094	2.984	110.053	41.808	1.00	0.00	C
ATOM	10390	CB	ILE	1094	3.969	109.473	40.836	1.00	0.00	C
ATOM	10391	CG1	ILE	1094	4.814	110.586	40.200	1.00	0.00	C
ATOM	10392	CG2	ILE	1094	3.191	108.641	39.801	1.00	0.00	C
ATOM	10393	CD1	ILE	1094	6.050	110.058	39.472	1.00	0.00	C
ATOM	10394	C	ILE	1094	2.290	108.885	42.452	1.00	0.00	C
ATOM	10395	O	ILE	1094	1.119	108.623	42.171	1.00	0.00	O
ATOM	10396	N	ALA	1095	2.985	108.183	43.375	1.00	0.00	N
ATOM	10397	HN	ALA	1095	3.901	108.517	43.674	1.00	0.00	H
ATOM	10398	CA	ALA	1095	2.454	106.973	43.943	1.00	0.00	C
ATOM	10399	CB	ALA	1095	3.362	106.380	45.033	1.00	0.00	C
ATOM	10400	C	ALA	1095	1.156	107.315	44.580	1.00	0.00	C
ATOM	10401	O	ALA	1095	0.157	106.620	44.400	1.00	0.00	O
ATOM	10402	N	ILE	1096	1.140	108.442	45.301	1.00	0.00	N
ATOM	10403	HN	ILE	1096	1.998	108.988	45.376	1.00	0.00	H
ATOM	10404	CA	ILE	1096	-0.033	108.910	45.970	1.00	0.00	C
ATOM	10405	CB	ILE	1096	0.245	110.148	46.756	1.00	0.00	C
ATOM	10406	CG1	ILE	1096	1.203	109.772	47.899	1.00	0.00	C
ATOM	10407	CG2	ILE	1096	-1.091	110.766	47.203	1.00	0.00	C
ATOM	10408	CD1	ILE	1096	1.901	110.955	48.552	1.00	0.00	C
ATOM	10409	C	ILE	1096	-1.074	109.182	44.947	1.00	0.00	C
ATOM	10410	O	ILE	1096	-2.257	108.931	45.187	1.00	0.00	O
ATOM	10411	N	ALA	1097	-0.654	109.712	43.780	1.00	0.00	N
ATOM	10412	HN	ALA	1097	0.335	109.908	43.623	1.00	0.00	H
ATOM	10413	CA	ALA	1097	-1.623	109.994	42.767	1.00	0.00	C
ATOM	10414	CB	ALA	1097	-0.993	110.501	41.459	1.00	0.00	C
ATOM	10415	C	ALA	1097	-2.291	108.708	42.470	1.00	0.00	C
ATOM	10416	O	ALA	1097	-3.473	108.590	42.769	1.00	0.00	O
ATOM	10417	N	ARG	1098	-1.491	107.670	42.146	1.00	0.00	N
ATOM	10418	HN	ARG	1098	-0.484	107.821	42.203	1.00	0.00	H
ATOM	10419	CA	ARG	1098	-1.940	106.370	41.728	1.00	0.00	C
ATOM	10420	CB	ARG	1098	-0.799	105.357	41.890	1.00	0.00	C
ATOM	10421	CG	ARG	1098	-1.123	103.912	41.525	1.00	0.00	C
ATOM	10422	CD	ARG	1098	-0.162	102.919	42.190	1.00	0.00	C
ATOM	10423	NE	ARG	1098	1.212	103.499	42.117	1.00	0.00	N
ATOM	10424	HE	ARG	1098	1.330	104.512	42.125	1.00	0.00	H
ATOM	10425	CZ	ARG	1098	2.313	102.695	42.040	1.00	0.00	C
ATOM	10426	NH1	ARG	1098	2.171	101.346	41.892	1.00	0.00	N
ATOM	10427	1HH1	ARG	1098	2.993	100.745	41.834	1.00	0.00	H
ATOM	10428	2HH1	ARG	1098	1.238	100.934	41.867	1.00	0.00	H
ATOM	10429	NH2	ARG	1098	3.562	103.246	42.074	1.00	0.00	N
ATOM	10430	1HH2	ARG	1098	4.384	102.645	42.016	1.00	0.00	H
ATOM	10431	2HH2	ARG	1098	3.668	104.254	42.185	1.00	0.00	H

ATOM	10432	C	ARG	1098	-2.992	105.963	42.702	1.00	0.00	C
ATOM	10433	O	ARG	1098	-4.101	105.605	42.307	1.00	0.00	O
ATOM	10434	N	ALA	1099	-2.691	106.114	44.006	1.00	0.00	N
ATOM	10435	HN	ALA	1099	-1.783	106.491	44.279	1.00	0.00	H
ATOM	10436	CA	ALA	1099	-3.644	105.746	45.010	1.00	0.00	C
ATOM	10437	CB	ALA	1099	-3.063	105.861	46.431	1.00	0.00	C
ATOM	10438	C	ALA	1099	-4.881	106.596	44.978	1.00	0.00	C
ATOM	10439	O	ALA	1099	-5.977	106.098	44.751	1.00	0.00	O
ATOM	10440	N	LEU	1100	-4.747	107.925	45.083	1.00	0.00	N
ATOM	10441	HN	LEU	1100	-3.819	108.346	45.110	1.00	0.00	H
ATOM	10442	CA	LEU	1100	-5.920	108.754	45.157	1.00	0.00	C
ATOM	10443	CB	LEU	1100	-5.607	110.231	45.485	1.00	0.00	C
ATOM	10444	CG	LEU	1100	-4.839	111.025	44.415	1.00	0.00	C
ATOM	10445	CD1	LEU	1100	-5.738	111.334	43.209	1.00	0.00	C
ATOM	10446	CD2	LEU	1100	-4.191	112.285	45.014	1.00	0.00	C
ATOM	10447	C	LEU	1100	-6.680	108.626	43.863	1.00	0.00	C
ATOM	10448	O	LEU	1100	-7.816	109.078	43.740	1.00	0.00	O
ATOM	10449	N	VAL	1101	-6.011	108.128	42.812	1.00	0.00	N
ATOM	10450	HN	VAL	1101	-5.022	107.909	42.928	1.00	0.00	H
ATOM	10451	CA	VAL	1101	-6.617	107.887	41.530	1.00	0.00	C
ATOM	10452	CB	VAL	1101	-5.647	107.423	40.482	1.00	0.00	C
ATOM	10453	CG1	VAL	1101	-6.435	107.075	39.208	1.00	0.00	C
ATOM	10454	CG2	VAL	1101	-4.583	108.506	40.265	1.00	0.00	C
ATOM	10455	C	VAL	1101	-7.600	106.772	41.684	1.00	0.00	C
ATOM	10456	O	VAL	1101	-8.676	106.789	41.091	1.00	0.00	O
ATOM	10457	N	ARG	1102	-7.215	105.763	42.488	1.00	0.00	N
ATOM	10458	HN	ARG	1102	-6.296	105.848	42.923	1.00	0.00	H
ATOM	10459	CA	ARG	1102	-7.967	104.578	42.796	1.00	0.00	C
ATOM	10460	CB	ARG	1102	-7.207	103.568	43.680	1.00	0.00	C
ATOM	10461	CG	ARG	1102	-5.963	102.939	43.043	1.00	0.00	C
ATOM	10462	CD	ARG	1102	-5.343	101.837	43.911	1.00	0.00	C
ATOM	10463	NE	ARG	1102	-4.017	101.460	43.342	1.00	0.00	N
ATOM	10464	HE	ARG	1102	-3.199	102.031	43.557	1.00	0.00	H
ATOM	10465	CZ	ARG	1102	-3.877	100.365	42.538	1.00	0.00	C
ATOM	10466	NH1	ARG	1102	-4.967	99.644	42.148	1.00	0.00	N
ATOM	10467	1HH1	ARG	1102	-5.898	99.936	42.446	1.00	0.00	H
ATOM	10468	2HH1	ARG	1102	-4.862	98.826	41.548	1.00	0.00	H
ATOM	10469	NH2	ARG	1102	-2.632	99.975	42.139	1.00	0.00	N
ATOM	10470	1HH2	ARG	1102	-1.817	100.514	42.431	1.00	0.00	H
ATOM	10471	2HH2	ARG	1102	-2.527	99.157	41.539	1.00	0.00	H
ATOM	10472	C	ARG	1102	-9.176	104.986	43.577	1.00	0.00	C
ATOM	10473	O	ARG	1102	-10.180	104.275	43.608	1.00	0.00	O
ATOM	10474	N	GLN	1103	-9.109	106.152	44.245	1.00	0.00	N
ATOM	10475	HN	GLN	1103	-8.288	106.746	44.132	1.00	0.00	H
ATOM	10476	CA	GLN	1103	-10.171	106.576	45.114	1.00	0.00	C
ATOM	10477	CB	GLN	1103	-11.484	106.867	44.360	1.00	0.00	C
ATOM	10478	CG	GLN	1103	-11.363	107.886	43.221	1.00	0.00	C
ATOM	10479	CD	GLN	1103	-11.066	109.263	43.798	1.00	0.00	C
ATOM	10480	OE1	GLN	1103	-10.724	109.401	44.971	1.00	0.00	O
ATOM	10481	NE2	GLN	1103	-11.190	110.312	42.940	1.00	0.00	N
ATOM	10482	1HE2	GLN	1103	-10.991	111.235	43.327	1.00	0.00	H
ATOM	10483	2HE2	GLN	1103	-11.474	110.198	41.967	1.00	0.00	H
ATOM	10484	C	GLN	1103	-10.472	105.489	46.125	1.00	0.00	C
ATOM	10485	O	GLN	1103	-11.560	104.914	46.082	1.00	0.00	O
ATOM	10486	N	PRO	1104	-9.562	105.163	47.032	1.00	0.00	N
ATOM	10487	CA	PRO	1104	-9.811	104.138	48.017	1.00	0.00	C
ATOM	10488	CD	PRO	1104	-8.129	105.293	46.787	1.00	0.00	C
ATOM	10489	CB	PRO	1104	-8.451	103.709	48.562	1.00	0.00	C
ATOM	10490	CG	PRO	1104	-7.466	104.083	47.452	1.00	0.00	C
ATOM	10491	C	PRO	1104	-10.674	104.660	49.120	1.00	0.00	C
ATOM	10492	O	PRO	1104	-11.247	105.735	48.966	1.00	0.00	O
ATOM	10493	N	HIS	1105	-11.007	103.792	50.092	1.00	0.00	N
ATOM	10494	HN	HIS	1105	-10.818	102.804	49.921	1.00	0.00	H
ATOM	10495	CA	HIS	1105	-11.606	104.139	51.349	1.00	0.00	C
ATOM	10496	ND1	HIS	1105	-13.818	103.096	49.325	1.00	0.00	N
ATOM	10497	HD1	HIS	1105	-13.068	102.551	48.900	1.00	0.00	H
ATOM	10498	CG	HIS	1105	-13.888	103.514	50.635	1.00	0.00	C
ATOM	10499	CB	HIS	1105	-12.818	103.252	51.653	1.00	0.00	C
ATOM	10500	NE2	HIS	1105	-15.722	104.227	49.529	1.00	0.00	N
ATOM	10501	HE2	HIS	1105	-16.616	104.669	49.316	1.00	0.00	H
ATOM	10502	CD2	HIS	1105	-15.057	104.203	50.742	1.00	0.00	C
ATOM	10503	CE1	HIS	1105	-14.939	103.549	48.709	1.00	0.00	C
ATOM	10504	C	HIS	1105	-10.622	104.106	52.490	1.00	0.00	C
ATOM	10505	O	HIS	1105	-10.775	104.791	53.500	1.00	0.00	O

ATOM	10506	N	ILE	1106	-9.599	103.237	52.381	1.00	0.00	N
ATOM	10507	HN	ILE	1106	-9.500	102.699	51.520	1.00	0.00	H
ATOM	10508	CA	ILE	1106	-8.643	103.042	53.435	1.00	0.00	C
ATOM	10509	CB	ILE	1106	-8.561	101.635	53.938	1.00	0.00	C
ATOM	10510	CG1	ILE	1106	-7.600	101.584	55.136	1.00	0.00	C
ATOM	10511	CG2	ILE	1106	-8.169	100.718	52.769	1.00	0.00	C
ATOM	10512	CD1	ILE	1106	-7.433	100.201	55.745	1.00	0.00	C
ATOM	10513	C	ILE	1106	-7.298	103.355	52.857	1.00	0.00	C
ATOM	10514	O	ILE	1106	-7.161	103.411	51.637	1.00	0.00	O
ATOM	10515	N	LEU	1107	-6.285	103.637	53.712	1.00	0.00	N
ATOM	10516	HN	LEU	1107	-6.451	103.644	54.718	1.00	0.00	H
ATOM	10517	CA	LEU	1107	-4.971	103.927	53.192	1.00	0.00	C
ATOM	10518	CB	LEU	1107	-4.613	105.423	53.197	1.00	0.00	C
ATOM	10519	CG	LEU	1107	-5.508	106.310	52.316	1.00	0.00	C
ATOM	10520	CD1	LEU	1107	-5.040	107.774	52.366	1.00	0.00	C
ATOM	10521	CD2	LEU	1107	-5.610	105.767	50.882	1.00	0.00	C
ATOM	10522	C	LEU	1107	-3.918	103.268	54.035	1.00	0.00	C
ATOM	10523	O	LEU	1107	-4.011	103.205	55.257	1.00	0.00	O
ATOM	10524	N	LEU	1108	-2.861	102.755	53.384	1.00	0.00	N
ATOM	10525	HN	LEU	1108	-2.842	102.797	52.365	1.00	0.00	H
ATOM	10526	CA	LEU	1108	-1.764	102.153	54.070	1.00	0.00	C
ATOM	10527	CB	LEU	1108	-1.493	100.738	53.527	1.00	0.00	C
ATOM	10528	CG	LEU	1108	-2.741	99.830	53.633	1.00	0.00	C
ATOM	10529	CD1	LEU	1108	-2.475	98.419	53.088	1.00	0.00	C
ATOM	10530	CD2	LEU	1108	-3.298	99.802	55.066	1.00	0.00	C
ATOM	10531	C	LEU	1108	-0.575	103.022	53.785	1.00	0.00	C
ATOM	10532	O	LEU	1108	0.075	102.879	52.749	1.00	0.00	O
ATOM	10533	N	LEU	1109	-0.259	103.962	54.704	1.00	0.00	N
ATOM	10534	HN	LEU	1109	-0.817	104.069	55.551	1.00	0.00	H
ATOM	10535	CA	LEU	1109	0.876	104.806	54.466	1.00	0.00	C
ATOM	10536	CB	LEU	1109	0.700	106.262	54.936	1.00	0.00	C
ATOM	10537	CG	LEU	1109	-0.602	106.931	54.446	1.00	0.00	C
ATOM	10538	CD1	LEU	1109	-0.822	106.732	52.938	1.00	0.00	C
ATOM	10539	CD2	LEU	1109	-1.806	106.526	55.307	1.00	0.00	C
ATOM	10540	C	LEU	1109	1.994	104.212	55.261	1.00	0.00	C
ATOM	10541	O	LEU	1109	2.156	104.510	56.444	1.00	0.00	O
ATOM	10542	N	ASP	1110	2.815	103.377	54.597	1.00	0.00	N
ATOM	10543	HN	ASP	1110	2.685	103.267	53.591	1.00	0.00	H
ATOM	10544	CA	ASP	1110	3.863	102.634	55.234	1.00	0.00	C
ATOM	10545	CB	ASP	1110	4.186	101.331	54.476	1.00	0.00	C
ATOM	10546	CG	ASP	1110	5.156	100.462	55.273	1.00	0.00	C
ATOM	10547	OD1	ASP	1110	6.166	100.990	55.811	1.00	0.00	O
ATOM	10548	OD2	ASP	1110	4.886	99.234	55.347	1.00	0.00	O
ATOM	10549	C	ASP	1110	5.107	103.453	55.274	1.00	0.00	C
ATOM	10550	O	ASP	1110	5.971	103.289	54.411	1.00	0.00	O
ATOM	10551	N	GLU	1111	5.206	104.346	56.287	1.00	0.00	N
ATOM	10552	HN	GLU	1111	4.407	104.452	56.912	1.00	0.00	H
ATOM	10553	CA	GLU	1111	6.369	105.154	56.536	1.00	0.00	C
ATOM	10554	CB	GLU	1111	7.555	104.347	57.086	1.00	0.00	C
ATOM	10555	CG	GLU	1111	7.321	103.782	58.486	1.00	0.00	C
ATOM	10556	CD	GLU	1111	8.557	102.982	58.869	1.00	0.00	C
ATOM	10557	OE1	GLU	1111	8.920	102.054	58.099	1.00	0.00	O
ATOM	10558	OE2	GLU	1111	9.156	103.288	59.934	1.00	0.00	O
ATOM	10559	C	GLU	1111	6.806	105.732	55.242	1.00	0.00	C
ATOM	10560	O	GLU	1111	8.012	105.817	55.008	1.00	0.00	O
ATOM	10561	N	ALA	1112	5.841	106.201	54.417	1.00	0.00	N
ATOM	10562	HN	ALA	1112	4.888	106.316	54.761	1.00	0.00	H
ATOM	10563	CA	ALA	1112	6.158	106.536	53.059	1.00	0.00	C
ATOM	10564	CB	ALA	1112	4.975	107.172	52.309	1.00	0.00	C
ATOM	10565	C	ALA	1112	7.296	107.504	53.017	1.00	0.00	C
ATOM	10566	O	ALA	1112	8.358	107.154	52.509	1.00	0.00	O
ATOM	10567	N	THR	1113	7.186	108.668	53.679	1.00	0.00	N
ATOM	10568	HN	THR	1113	6.349	108.892	54.218	1.00	0.00	H
ATOM	10569	CA	THR	1113	8.288	109.586	53.601	1.00	0.00	C
ATOM	10570	CB	THR	1113	7.860	111.009	53.814	1.00	0.00	C
ATOM	10571	OG1	THR	1113	6.841	111.352	52.889	1.00	0.00	O
ATOM	10572	HG1	THR	1113	6.570	112.253	53.024	1.00	0.00	H
ATOM	10573	CG2	THR	1113	9.066	111.934	53.605	1.00	0.00	C
ATOM	10574	C	THR	1113	9.204	109.244	54.736	1.00	0.00	C
ATOM	10575	O	THR	1113	9.101	109.807	55.825	1.00	0.00	O
ATOM	10576	N	SER	1114	10.038	108.205	54.541	1.00	0.00	N
ATOM	10577	HN	SER	1114	9.951	107.661	53.683	1.00	0.00	H
ATOM	10578	CA	SER	1114	11.043	107.834	55.493	1.00	0.00	C
ATOM	10579	CB	SER	1114	11.204	106.310	55.623	1.00	0.00	C

ATOM	10580	OG	SER	1114	12.124	106.002	56.658	1.00	0.00	O
ATOM	10581	HG	SER	1114	12.223	105.061	56.738	1.00	0.00	H
ATOM	10582	C	SER	1114	12.359	108.427	55.098	1.00	0.00	C
ATOM	10583	O	SER	1114	13.287	108.464	55.899	1.00	0.00	O
ATOM	10584	N	ALA	1115	12.508	108.824	53.819	1.00	0.00	N
ATOM	10585	HN	ALA	1115	11.746	108.687	53.155	1.00	0.00	H
ATOM	10586	CA	ALA	1115	13.731	109.439	53.383	1.00	0.00	C
ATOM	10587	CB	ALA	1115	14.651	108.489	52.597	1.00	0.00	C
ATOM	10588	C	ALA	1115	13.327	110.530	52.448	1.00	0.00	C
ATOM	10589	O	ALA	1115	12.700	110.268	51.421	1.00	0.00	O
ATOM	10590	N	LEU	1116	13.691	111.789	52.769	1.00	0.00	N
ATOM	10591	HN	LEU	1116	14.267	111.980	53.589	1.00	0.00	H
ATOM	10592	CA	LEU	1116	13.240	112.847	51.918	1.00	0.00	C
ATOM	10593	CB	LEU	1116	11.704	112.917	51.892	1.00	0.00	C
ATOM	10594	CG	LEU	1116	11.100	113.778	50.776	1.00	0.00	C
ATOM	10595	CD1	LEU	1116	11.551	113.274	49.393	1.00	0.00	C
ATOM	10596	CD2	LEU	1116	9.567	113.803	50.908	1.00	0.00	C
ATOM	10597	C	LEU	1116	13.810	114.139	52.445	1.00	0.00	C
ATOM	10598	O	LEU	1116	14.765	114.122	53.223	1.00	0.00	O
ATOM	10599	N	ASP	1117	13.253	115.293	51.995	1.00	0.00	N
ATOM	10600	HN	ASP	1117	12.461	115.231	51.355	1.00	0.00	H
ATOM	10601	CA	ASP	1117	13.724	116.603	52.376	1.00	0.00	C
ATOM	10602	CB	ASP	1117	14.261	117.424	51.201	1.00	0.00	C
ATOM	10603	CG	ASP	1117	15.458	116.719	50.604	1.00	0.00	C
ATOM	10604	OD1	ASP	1117	16.277	116.148	51.374	1.00	0.00	O
ATOM	10605	OD2	ASP	1117	15.555	116.736	49.350	1.00	0.00	O
ATOM	10606	C	ASP	1117	12.576	117.429	52.879	1.00	0.00	C
ATOM	10607	O	ASP	1117	11.454	116.949	53.012	1.00	0.00	O
ATOM	10608	N	THR	1118	12.856	118.731	53.127	1.00	0.00	N
ATOM	10609	HN	THR	1118	13.773	119.080	52.849	1.00	0.00	H
ATOM	10610	CA	THR	1118	11.949	119.656	53.755	1.00	0.00	C
ATOM	10611	CB	THR	1118	12.542	121.023	53.890	1.00	0.00	C
ATOM	10612	OG1	THR	1118	13.741	120.966	54.643	1.00	0.00	O
ATOM	10613	HG1	THR	1118	14.375	120.409	54.207	1.00	0.00	H
ATOM	10614	CG2	THR	1118	11.517	121.923	54.594	1.00	0.00	C
ATOM	10615	C	THR	1118	10.644	119.864	53.034	1.00	0.00	C
ATOM	10616	O	THR	1118	9.589	119.557	53.583	1.00	0.00	O
ATOM	10617	N	GLU	1119	10.672	120.393	51.793	1.00	0.00	N
ATOM	10618	HN	GLU	1119	11.576	120.561	51.352	1.00	0.00	H
ATOM	10619	CA	GLU	1119	9.471	120.731	51.064	1.00	0.00	C
ATOM	10620	CB	GLU	1119	9.752	121.590	49.817	1.00	0.00	C
ATOM	10621	CG	GLU	1119	8.493	122.201	49.194	1.00	0.00	C
ATOM	10622	CD	GLU	1119	8.044	123.363	50.072	1.00	0.00	C
ATOM	10623	OE1	GLU	1119	7.838	123.135	51.294	1.00	0.00	O
ATOM	10624	OE2	GLU	1119	7.906	124.494	49.535	1.00	0.00	O
ATOM	10625	C	GLU	1119	8.793	119.487	50.618	1.00	0.00	C
ATOM	10626	O	GLU	1119	7.573	119.425	50.469	1.00	0.00	O
ATOM	10627	N	SER	1120	9.599	118.468	50.312	1.00	0.00	N
ATOM	10628	HN	SER	1120	10.610	118.565	50.407	1.00	0.00	H
ATOM	10629	CA	SER	1120	9.036	117.246	49.853	1.00	0.00	C
ATOM	10630	CB	SER	1120	10.132	116.268	49.416	1.00	0.00	C
ATOM	10631	OG	SER	1120	10.946	116.873	48.422	1.00	0.00	O
ATOM	10632	HG	SER	1120	11.625	116.267	48.151	1.00	0.00	H
ATOM	10633	C	SER	1120	8.281	116.658	50.991	1.00	0.00	C
ATOM	10634	O	SER	1120	7.098	116.343	50.874	1.00	0.00	O
ATOM	10635	N	GLU	1121	8.941	116.551	52.156	1.00	0.00	N
ATOM	10636	HN	GLU	1121	9.888	116.917	52.255	1.00	0.00	H
ATOM	10637	CA	GLU	1121	8.285	115.913	53.252	1.00	0.00	C
ATOM	10638	CB	GLU	1121	9.165	115.832	54.508	1.00	0.00	C
ATOM	10639	CG	GLU	1121	9.620	117.193	55.030	1.00	0.00	C
ATOM	10640	CD	GLU	1121	10.567	116.947	56.190	1.00	0.00	C
ATOM	10641	OE1	GLU	1121	10.506	115.834	56.778	1.00	0.00	O
ATOM	10642	OE2	GLU	1121	11.368	117.869	56.500	1.00	0.00	O
ATOM	10643	C	GLU	1121	7.057	116.690	53.591	1.00	0.00	C
ATOM	10644	O	GLU	1121	5.958	116.143	53.598	1.00	0.00	O
ATOM	10645	N	LYS	1122	7.207	118.010	53.790	1.00	0.00	N
ATOM	10646	HN	LYS	1122	8.120	118.436	53.629	1.00	0.00	H
ATOM	10647	CA	LYS	1122	6.121	118.835	54.222	1.00	0.00	C
ATOM	10648	CB	LYS	1122	6.592	120.290	54.429	1.00	0.00	C
ATOM	10649	CG	LYS	1122	5.533	121.294	54.895	1.00	0.00	C
ATOM	10650	CD	LYS	1122	4.491	121.653	53.833	1.00	0.00	C
ATOM	10651	CE	LYS	1122	3.110	121.050	54.082	1.00	0.00	C
ATOM	10652	NZ	LYS	1122	2.197	121.428	52.980	1.00	0.00	N
ATOM	10653	HZ1	LYS	1122	1.275	121.025	53.146	1.00	0.00	H

ATOM	10654	HZ2	LYS	1122	2.570	121.171	52.066	1.00	0.00	H
ATOM	10655	HZ3	LYS	1122	2.157	122.438	52.843	1.00	0.00	H
ATOM	10656	C	LYS	1122	5.004	118.808	53.225	1.00	0.00	C
ATOM	10657	O	LYS	1122	3.877	118.461	53.571	1.00	0.00	O
ATOM	10658	N	VAL	1123	5.294	119.076	51.940	1.00	0.00	N
ATOM	10659	HN	VAL	1123	6.264	119.201	51.651	1.00	0.00	H
ATOM	10660	CA	VAL	1123	4.237	119.186	50.975	1.00	0.00	C
ATOM	10661	CB	VAL	1123	4.732	119.493	49.588	1.00	0.00	C
ATOM	10662	CG1	VAL	1123	5.524	118.289	49.046	1.00	0.00	C
ATOM	10663	CG2	VAL	1123	3.523	119.883	48.723	1.00	0.00	C
ATOM	10664	C	VAL	1123	3.481	117.895	50.923	1.00	0.00	C
ATOM	10665	O	VAL	1123	2.256	117.889	50.812	1.00	0.00	O
ATOM	10666	N	VAL	1124	4.204	116.765	51.018	1.00	0.00	N
ATOM	10667	HN	VAL	1124	5.213	116.844	51.146	1.00	0.00	H
ATOM	10668	CA	VAL	1124	3.625	115.454	50.948	1.00	0.00	C
ATOM	10669	CB	VAL	1124	4.653	114.358	50.964	1.00	0.00	C
ATOM	10670	CG1	VAL	1124	3.932	113.006	51.105	1.00	0.00	C
ATOM	10671	CG2	VAL	1124	5.498	114.466	49.682	1.00	0.00	C
ATOM	10672	C	VAL	1124	2.712	115.235	52.110	1.00	0.00	C
ATOM	10673	O	VAL	1124	1.677	114.587	51.973	1.00	0.00	O
ATOM	10674	N	GLN	1125	3.080	115.756	53.292	1.00	0.00	N
ATOM	10675	HN	GLN	1125	3.951	116.284	53.350	1.00	0.00	H
ATOM	10676	CA	GLN	1125	2.287	115.592	54.472	1.00	0.00	C
ATOM	10677	CB	GLN	1125	2.928	116.260	55.699	1.00	0.00	C
ATOM	10678	CG	GLN	1125	2.293	115.841	57.023	1.00	0.00	C
ATOM	10679	CD	GLN	1125	2.749	114.416	57.308	1.00	0.00	C
ATOM	10680	OE1	GLN	1125	2.647	113.536	56.454	1.00	0.00	O
ATOM	10681	NE2	GLN	1125	3.279	114.182	58.539	1.00	0.00	N
ATOM	10682	1HE2	GLN	1125	3.364	114.911	59.247	1.00	0.00	H
ATOM	10683	2HE2	GLN	1125	3.584	113.228	58.730	1.00	0.00	H
ATOM	10684	C	GLN	1125	0.993	116.271	54.191	1.00	0.00	C
ATOM	10685	O	GLN	1125	-0.055	115.857	54.684	1.00	0.00	O
ATOM	10686	N	GLU	1126	1.059	117.374	53.422	1.00	0.00	N
ATOM	10687	HN	GLU	1126	1.973	117.704	53.112	1.00	0.00	H
ATOM	10688	CA	GLU	1126	-0.108	118.099	53.025	1.00	0.00	C
ATOM	10689	CB	GLU	1126	0.228	119.405	52.283	1.00	0.00	C
ATOM	10690	CG	GLU	1126	-0.995	120.216	51.847	1.00	0.00	C
ATOM	10691	CD	GLU	1126	-1.310	119.874	50.398	1.00	0.00	C
ATOM	10692	OE1	GLU	1126	-0.343	119.611	49.635	1.00	0.00	O
ATOM	10693	OE2	GLU	1126	-2.516	119.877	50.034	1.00	0.00	O
ATOM	10694	C	GLU	1126	-0.903	117.231	52.104	1.00	0.00	C
ATOM	10695	O	GLU	1126	-2.128	117.174	52.201	1.00	0.00	O
ATOM	10696	N	ALA	1127	-0.226	116.536	51.168	1.00	0.00	N
ATOM	10697	HN	ALA	1127	0.791	116.595	51.110	1.00	0.00	H
ATOM	10698	CA	ALA	1127	-0.964	115.713	50.256	1.00	0.00	C
ATOM	10699	CB	ALA	1127	-0.068	115.048	49.199	1.00	0.00	C
ATOM	10700	C	ALA	1127	-1.626	114.622	51.032	1.00	0.00	C
ATOM	10701	O	ALA	1127	-2.847	114.513	51.042	1.00	0.00	O
ATOM	10702	N	LEU	1128	-0.839	113.878	51.826	1.00	0.00	N
ATOM	10703	HN	LEU	1128	0.151	114.113	51.890	1.00	0.00	H
ATOM	10704	CA	LEU	1128	-1.331	112.767	52.588	1.00	0.00	C
ATOM	10705	CB	LEU	1128	-0.202	112.148	53.446	1.00	0.00	C
ATOM	10706	CG	LEU	1128	-0.538	110.885	54.271	1.00	0.00	C
ATOM	10707	CD1	LEU	1128	0.711	110.392	55.017	1.00	0.00	C
ATOM	10708	CD2	LEU	1128	-1.703	111.094	55.248	1.00	0.00	C
ATOM	10709	C	LEU	1128	-2.402	113.331	53.468	1.00	0.00	C
ATOM	10710	O	LEU	1128	-3.388	112.661	53.776	1.00	0.00	O
ATOM	10711	N	ASP	1129	-2.224	114.594	53.897	1.00	0.00	N
ATOM	10712	HN	ASP	1129	-1.401	115.118	53.601	1.00	0.00	H
ATOM	10713	CA	ASP	1129	-3.183	115.207	54.767	1.00	0.00	C
ATOM	10714	CB	ASP	1129	-2.764	116.626	55.188	1.00	0.00	C
ATOM	10715	CG	ASP	1129	-3.620	117.045	56.376	1.00	0.00	C
ATOM	10716	OD1	ASP	1129	-4.872	116.933	56.288	1.00	0.00	O
ATOM	10717	OD2	ASP	1129	-3.026	117.488	57.393	1.00	0.00	O
ATOM	10718	C	ASP	1129	-4.536	115.303	54.111	1.00	0.00	C
ATOM	10719	O	ASP	1129	-5.496	114.680	54.560	1.00	0.00	O
ATOM	10720	N	LYS	1130	-4.637	116.032	52.984	1.00	0.00	N
ATOM	10721	HN	LYS	1130	-3.792	116.448	52.593	1.00	0.00	H
ATOM	10722	CA	LYS	1130	-5.890	116.249	52.308	1.00	0.00	C
ATOM	10723	CB	LYS	1130	-5.759	117.189	51.101	1.00	0.00	C
ATOM	10724	CG	LYS	1130	-5.277	118.580	51.504	1.00	0.00	C
ATOM	10725	CD	LYS	1130	-6.203	119.273	52.503	1.00	0.00	C
ATOM	10726	CE	LYS	1130	-5.542	120.449	53.222	1.00	0.00	C
ATOM	10727	NZ	LYS	1130	-4.509	119.945	54.156	1.00	0.00	N

ATOM	10728	HZ1	LYS	1130	-4.068	120.730	54.636	1.00	0.00	H
ATOM	10729	HZ2	LYS	1130	-3.827	119.348	53.689	1.00	0.00	H
ATOM	10730	HZ3	LYS	1130	-4.884	119.257	54.809	1.00	0.00	H
ATOM	10731	C	LYS	1130	-6.337	114.931	51.797	1.00	0.00	C
ATOM	10732	O	LYS	1130	-7.520	114.685	51.576	1.00	0.00	O
ATOM	10733	N	ALA	1131	-5.354	114.061	51.550	1.00	0.00	N
ATOM	10734	HN	ALA	1131	-4.393	114.347	51.737	1.00	0.00	H
ATOM	10735	CA	ALA	1131	-5.586	112.754	51.038	1.00	0.00	C
ATOM	10736	CB	ALA	1131	-4.287	111.958	50.820	1.00	0.00	C
ATOM	10737	C	ALA	1131	-6.415	112.018	52.039	1.00	0.00	C
ATOM	10738	O	ALA	1131	-7.282	111.239	51.658	1.00	0.00	O
ATOM	10739	N	ARG	1132	-6.159	112.238	53.346	1.00	0.00	N
ATOM	10740	HN	ARG	1132	-5.441	112.917	53.601	1.00	0.00	H
ATOM	10741	CA	ARG	1132	-6.865	111.547	54.391	1.00	0.00	C
ATOM	10742	CB	ARG	1132	-6.004	111.298	55.644	1.00	0.00	C
ATOM	10743	CG	ARG	1132	-5.544	112.586	56.335	1.00	0.00	C
ATOM	10744	CD	ARG	1132	-4.406	112.384	57.341	1.00	0.00	C
ATOM	10745	NE	ARG	1132	-4.183	113.672	58.061	1.00	0.00	N
ATOM	10746	HE	ARG	1132	-4.928	114.367	58.105	1.00	0.00	H
ATOM	10747	CZ	ARG	1132	-2.980	113.921	58.661	1.00	0.00	C
ATOM	10748	NH1	ARG	1132	-1.956	113.029	58.532	1.00	0.00	N
ATOM	10749	1HH1	ARG	1132	-2.093	112.177	57.987	1.00	0.00	H
ATOM	10750	2HH1	ARG	1132	-1.058	113.215	58.980	1.00	0.00	H
ATOM	10751	NH2	ARG	1132	-2.797	115.061	59.390	1.00	0.00	N
ATOM	10752	1HH2	ARG	1132	-3.563	115.728	59.486	1.00	0.00	H
ATOM	10753	2HH2	ARG	1132	-1.899	115.247	59.838	1.00	0.00	H
ATOM	10754	C	ARG	1132	-8.048	112.356	54.825	1.00	0.00	C
ATOM	10755	O	ARG	1132	-8.407	113.357	54.211	1.00	0.00	O
ATOM	10756	N	GLU	1133	-8.747	111.856	55.866	1.00	0.00	N
ATOM	10757	HN	GLU	1133	-8.439	110.958	56.240	1.00	0.00	H
ATOM	10758	CA	GLU	1133	-9.886	112.470	56.498	1.00	0.00	C
ATOM	10759	CB	GLU	1133	-9.645	113.964	56.773	1.00	0.00	C
ATOM	10760	CG	GLU	1133	-10.732	114.638	57.609	1.00	0.00	C
ATOM	10761	CD	GLU	1133	-10.329	116.096	57.779	1.00	0.00	C
ATOM	10762	OE1	GLU	1133	-9.217	116.458	57.311	1.00	0.00	O
ATOM	10763	OE2	GLU	1133	-11.127	116.867	58.376	1.00	0.00	O
ATOM	10764	C	GLU	1133	-11.065	112.331	55.591	1.00	0.00	C
ATOM	10765	O	GLU	1133	-12.215	112.370	56.027	1.00	0.00	O
ATOM	10766	N	GLY	1134	-10.797	112.141	54.292	1.00	0.00	N
ATOM	10767	HN	GLY	1134	-9.832	112.237	53.976	1.00	0.00	H
ATOM	10768	CA	GLY	1134	-11.796	111.812	53.332	1.00	0.00	C
ATOM	10769	C	GLY	1134	-12.102	110.377	53.574	1.00	0.00	C
ATOM	10770	O	GLY	1134	-13.214	109.905	53.345	1.00	0.00	O
ATOM	10771	N	ARG	1135	-11.063	109.630	54.003	1.00	0.00	N
ATOM	10772	HN	ARG	1135	-10.162	110.067	54.200	1.00	0.00	H
ATOM	10773	CA	ARG	1135	-11.235	108.222	54.179	1.00	0.00	C
ATOM	10774	CB	ARG	1135	-10.974	107.441	52.884	1.00	0.00	C
ATOM	10775	CG	ARG	1135	-9.560	107.588	52.323	1.00	0.00	C
ATOM	10776	CD	ARG	1135	-9.314	108.908	51.594	1.00	0.00	C
ATOM	10777	NE	ARG	1135	-7.986	108.792	50.935	1.00	0.00	N
ATOM	10778	HE	ARG	1135	-7.140	108.916	51.491	1.00	0.00	H
ATOM	10779	CZ	ARG	1135	-7.876	108.523	49.601	1.00	0.00	C
ATOM	10780	NH1	ARG	1135	-8.986	108.403	48.814	1.00	0.00	N
ATOM	10781	1HH1	ARG	1135	-9.913	108.491	49.230	1.00	0.00	H
ATOM	10782	2HH1	ARG	1135	-8.904	108.202	47.817	1.00	0.00	H
ATOM	10783	NH2	ARG	1135	-6.636	108.405	49.045	1.00	0.00	N
ATOM	10784	1HH2	ARG	1135	-5.807	108.495	49.633	1.00	0.00	H
ATOM	10785	2HH2	ARG	1135	-6.554	108.204	48.048	1.00	0.00	H
ATOM	10786	C	ARG	1135	-10.317	107.722	55.255	1.00	0.00	C
ATOM	10787	O	ARG	1135	-9.411	108.424	55.705	1.00	0.00	O
ATOM	10788	N	THR	1136	-10.551	106.469	55.701	1.00	0.00	N
ATOM	10789	HN	THR	1136	-11.292	105.917	55.268	1.00	0.00	H
ATOM	10790	CA	THR	1136	-9.784	105.894	56.769	1.00	0.00	C
ATOM	10791	CB	THR	1136	-10.363	104.625	57.328	1.00	0.00	C
ATOM	10792	OG1	THR	1136	-9.777	104.323	58.583	1.00	0.00	O
ATOM	10793	HG1	THR	1136	-9.963	105.031	59.188	1.00	0.00	H
ATOM	10794	CG2	THR	1136	-10.062	103.482	56.351	1.00	0.00	C
ATOM	10795	C	THR	1136	-8.424	105.566	56.250	1.00	0.00	C
ATOM	10796	O	THR	1136	-8.260	105.192	55.089	1.00	0.00	O
ATOM	10797	N	CYS	1137	-7.392	105.726	57.104	1.00	0.00	N
ATOM	10798	HN	CYS	1137	-7.543	106.067	58.053	1.00	0.00	H
ATOM	10799	CA	CYS	1137	-6.079	105.402	56.636	1.00	0.00	C
ATOM	10800	CB	CYS	1137	-5.439	106.527	55.803	1.00	0.00	C
ATOM	10801	SG	CYS	1137	-5.308	108.098	56.706	1.00	0.00	S

ATOM	10802	C	CYS	1137	-5.182	105.106	57.797	1.00	0.00	C
ATOM	10803	O	CYS	1137	-5.102	105.857	58.769	1.00	0.00	O
ATOM	10804	N	ILE	1138	-4.448	103.985	57.707	1.00	0.00	N
ATOM	10805	HN	ILE	1138	-4.531	103.377	56.892	1.00	0.00	H
ATOM	10806	CA	ILE	1138	-3.551	103.656	58.766	1.00	0.00	C
ATOM	10807	CB	ILE	1138	-3.429	102.178	59.004	1.00	0.00	C
ATOM	10808	CG1	ILE	1138	-4.818	101.586	59.308	1.00	0.00	C
ATOM	10809	CG2	ILE	1138	-2.420	101.958	60.146	1.00	0.00	C
ATOM	10810	CD1	ILE	1138	-4.868	100.059	59.275	1.00	0.00	C
ATOM	10811	C	ILE	1138	-2.233	104.189	58.339	1.00	0.00	C
ATOM	10812	O	ILE	1138	-1.543	103.626	57.487	1.00	0.00	O
ATOM	10813	N	VAL	1139	-1.887	105.349	58.917	1.00	0.00	N
ATOM	10814	HN	VAL	1139	-2.539	105.800	59.558	1.00	0.00	H
ATOM	10815	CA	VAL	1139	-0.632	105.964	58.656	1.00	0.00	C
ATOM	10816	CB	VAL	1139	-0.670	107.444	58.877	1.00	0.00	C
ATOM	10817	CG1	VAL	1139	0.750	108.006	58.764	1.00	0.00	C
ATOM	10818	CG2	VAL	1139	-1.661	108.051	57.878	1.00	0.00	C
ATOM	10819	C	VAL	1139	0.262	105.388	59.691	1.00	0.00	C
ATOM	10820	O	VAL	1139	0.066	105.619	60.885	1.00	0.00	O
ATOM	10821	N	ILE	1140	1.258	104.591	59.271	1.00	0.00	N
ATOM	10822	HN	ILE	1140	1.406	104.374	58.285	1.00	0.00	H
ATOM	10823	CA	ILE	1140	2.096	104.069	60.305	1.00	0.00	C
ATOM	10824	CB	ILE	1140	2.200	102.570	60.398	1.00	0.00	C
ATOM	10825	CG1	ILE	1140	3.163	101.985	59.363	1.00	0.00	C
ATOM	10826	CG2	ILE	1140	0.774	102.024	60.209	1.00	0.00	C
ATOM	10827	CD1	ILE	1140	2.780	102.304	57.940	1.00	0.00	C
ATOM	10828	C	ILE	1140	3.442	104.573	59.941	1.00	0.00	C
ATOM	10829	O	ILE	1140	3.737	104.749	58.760	1.00	0.00	O
ATOM	10830	N	ALA	1141	4.288	104.876	60.939	1.00	0.00	N
ATOM	10831	HN	ALA	1141	4.042	104.740	61.920	1.00	0.00	H
ATOM	10832	CA	ALA	1141	5.552	105.400	60.539	1.00	0.00	C
ATOM	10833	CB	ALA	1141	5.461	106.826	59.971	1.00	0.00	C
ATOM	10834	C	ALA	1141	6.491	105.456	61.693	1.00	0.00	C
ATOM	10835	O	ALA	1141	6.148	105.166	62.840	1.00	0.00	O
ATOM	10836	N	HIS	1142	7.762	105.708	61.337	1.00	0.00	N
ATOM	10837	HN	HIS	1142	7.967	105.734	60.338	1.00	0.00	H
ATOM	10838	CA	HIS	1142	8.851	105.943	62.227	1.00	0.00	C
ATOM	10839	ND1	HIS	1142	11.221	104.440	63.699	1.00	0.00	N
ATOM	10840	HD1	HIS	1142	10.579	103.648	63.718	1.00	0.00	H
ATOM	10841	CG	HIS	1142	11.226	105.471	62.786	1.00	0.00	C
ATOM	10842	CB	HIS	1142	10.231	105.574	61.668	1.00	0.00	C
ATOM	10843	NE2	HIS	1142	12.888	105.791	64.277	1.00	0.00	N
ATOM	10844	HE2	HIS	1142	13.684	106.193	64.771	1.00	0.00	H
ATOM	10845	CD2	HIS	1142	12.252	106.287	63.152	1.00	0.00	C
ATOM	10846	CE1	HIS	1142	12.234	104.681	64.568	1.00	0.00	C
ATOM	10847	C	HIS	1142	8.869	107.392	62.604	1.00	0.00	C
ATOM	10848	O	HIS	1142	9.670	107.794	63.445	1.00	0.00	O
ATOM	10849	N	ARG	1143	8.084	108.239	61.901	1.00	0.00	N
ATOM	10850	HN	ARG	1143	7.481	107.874	61.164	1.00	0.00	H
ATOM	10851	CA	ARG	1143	8.092	109.650	62.183	1.00	0.00	C
ATOM	10852	CB	ARG	1143	7.318	110.474	61.142	1.00	0.00	C
ATOM	10853	CG	ARG	1143	7.945	110.451	59.750	1.00	0.00	C
ATOM	10854	CD	ARG	1143	9.125	111.409	59.606	1.00	0.00	C
ATOM	10855	NE	ARG	1143	9.616	111.297	58.205	1.00	0.00	N
ATOM	10856	HE	ARG	1143	9.710	110.383	57.763	1.00	0.00	H
ATOM	10857	CZ	ARG	1143	9.938	112.431	57.520	1.00	0.00	C
ATOM	10858	NH1	ARG	1143	9.800	113.645	58.126	1.00	0.00	N
ATOM	10859	1HH1	ARG	1143	10.041	114.493	57.614	1.00	0.00	H
ATOM	10860	2HH1	ARG	1143	9.460	113.701	59.086	1.00	0.00	H
ATOM	10861	NH2	ARG	1143	10.393	112.356	56.235	1.00	0.00	N
ATOM	10862	1HH2	ARG	1143	10.634	113.204	55.723	1.00	0.00	H
ATOM	10863	2HH2	ARG	1143	10.496	111.448	55.782	1.00	0.00	H
ATOM	10864	C	ARG	1143	7.387	109.847	63.486	1.00	0.00	C
ATOM	10865	O	ARG	1143	6.263	110.340	63.549	1.00	0.00	O
ATOM	10866	N	LEU	1144	8.105	109.563	64.580	1.00	0.00	N
ATOM	10867	HN	LEU	1144	9.086	109.314	64.457	1.00	0.00	H
ATOM	10868	CA	LEU	1144	7.581	109.588	65.907	1.00	0.00	C
ATOM	10869	CB	LEU	1144	8.675	109.302	66.944	1.00	0.00	C
ATOM	10870	CG	LEU	1144	9.495	108.035	66.634	1.00	0.00	C
ATOM	10871	CD1	LEU	1144	10.469	107.717	67.779	1.00	0.00	C
ATOM	10872	CD2	LEU	1144	8.607	106.846	66.236	1.00	0.00	C
ATOM	10873	C	LEU	1144	7.095	110.979	66.154	1.00	0.00	C
ATOM	10874	O	LEU	1144	6.172	111.193	66.938	1.00	0.00	O
ATOM	10875	N	SER	1145	7.779	111.963	65.544	1.00	0.00	N

ATOM	10876	HN	SER	1145	8.576	111.707	64.961	1.00	0.00	H
ATOM	10877	CA	SER	1145	7.448	113.356	65.669	1.00	0.00	C
ATOM	10878	CB	SER	1145	8.529	114.256	65.049	1.00	0.00	C
ATOM	10879	OG	SER	1145	8.662	113.976	63.663	1.00	0.00	O
ATOM	10880	HG	SER	1145	9.330	114.532	63.280	1.00	0.00	H
ATOM	10881	C	SER	1145	6.132	113.734	65.029	1.00	0.00	C
ATOM	10882	O	SER	1145	5.193	114.134	65.715	1.00	0.00	O
ATOM	10883	N	THR	1146	6.029	113.573	63.692	1.00	0.00	N
ATOM	10884	HN	THR	1146	6.798	113.085	63.233	1.00	0.00	H
ATOM	10885	CA	THR	1146	4.946	114.017	62.838	1.00	0.00	C
ATOM	10886	CB	THR	1146	5.260	113.896	61.375	1.00	0.00	C
ATOM	10887	OG1	THR	1146	5.428	112.533	61.017	1.00	0.00	O
ATOM	10888	HG1	THR	1146	4.632	112.046	61.197	1.00	0.00	H
ATOM	10889	CG2	THR	1146	6.548	114.684	61.084	1.00	0.00	C
ATOM	10890	C	THR	1146	3.676	113.258	63.086	1.00	0.00	C
ATOM	10891	O	THR	1146	2.607	113.641	62.613	1.00	0.00	O
ATOM	10892	N	ILE	1147	3.777	112.119	63.777	1.00	0.00	N
ATOM	10893	HN	ILE	1147	4.698	111.874	64.140	1.00	0.00	H
ATOM	10894	CA	ILE	1147	2.700	111.210	64.053	1.00	0.00	C
ATOM	10895	CB	ILE	1147	3.145	109.976	64.777	1.00	0.00	C
ATOM	10896	CG1	ILE	1147	2.014	108.938	64.762	1.00	0.00	C
ATOM	10897	CG2	ILE	1147	3.619	110.375	66.185	1.00	0.00	C
ATOM	10898	CD1	ILE	1147	2.473	107.535	65.142	1.00	0.00	C
ATOM	10899	C	ILE	1147	1.602	111.850	64.857	1.00	0.00	C
ATOM	10900	O	ILE	1147	0.463	111.385	64.835	1.00	0.00	O
ATOM	10901	N	GLN	1148	1.912	112.927	65.597	1.00	0.00	N
ATOM	10902	HN	GLN	1148	2.829	113.354	65.469	1.00	0.00	H
ATOM	10903	CA	GLN	1148	1.019	113.509	66.560	1.00	0.00	C
ATOM	10904	CB	GLN	1148	1.533	114.859	67.087	1.00	0.00	C
ATOM	10905	CG	GLN	1148	2.805	114.736	67.928	1.00	0.00	C
ATOM	10906	CD	GLN	1148	3.231	116.138	68.340	1.00	0.00	C
ATOM	10907	OE1	GLN	1148	3.904	116.839	67.587	1.00	0.00	O
ATOM	10908	NE2	GLN	1148	2.830	116.561	69.568	1.00	0.00	N
ATOM	10909	1HE2	GLN	1148	3.115	117.501	69.844	1.00	0.00	H
ATOM	10910	2HE2	GLN	1148	2.272	115.979	70.193	1.00	0.00	H
ATOM	10911	C	GLN	1148	-0.354	113.736	65.991	1.00	0.00	C
ATOM	10912	O	GLN	1148	-1.335	113.613	66.722	1.00	0.00	O
ATOM	10913	N	ASN	1149	-0.494	114.084	64.699	1.00	0.00	N
ATOM	10914	HN	ASN	1149	0.320	114.164	64.090	1.00	0.00	H
ATOM	10915	CA	ASN	1149	-1.819	114.341	64.193	1.00	0.00	C
ATOM	10916	CB	ASN	1149	-1.794	114.967	62.791	1.00	0.00	C
ATOM	10917	CG	ASN	1149	-0.768	116.086	62.726	1.00	0.00	C
ATOM	10918	OD1	ASN	1149	-0.190	116.497	63.731	1.00	0.00	O
ATOM	10919	ND2	ASN	1149	-0.522	116.582	61.484	1.00	0.00	N
ATOM	10920	1HD2	ASN	1149	-1.001	116.241	60.651	1.00	0.00	H
ATOM	10921	2HD2	ASN	1149	0.167	117.333	61.440	1.00	0.00	H
ATOM	10922	C	ASN	1149	-2.492	113.014	63.955	1.00	0.00	C
ATOM	10923	O	ASN	1149	-2.834	112.704	62.815	1.00	0.00	O
ATOM	10924	N	ALA	1150	-2.765	112.218	65.011	1.00	0.00	N
ATOM	10925	HN	ALA	1150	-2.564	112.530	65.961	1.00	0.00	H
ATOM	10926	CA	ALA	1150	-3.346	110.919	64.774	1.00	0.00	C
ATOM	10927	CB	ALA	1150	-2.410	109.758	65.150	1.00	0.00	C
ATOM	10928	C	ALA	1150	-4.596	110.764	65.586	1.00	0.00	C
ATOM	10929	O	ALA	1150	-4.710	111.316	66.679	1.00	0.00	O
ATOM	10930	N	ASP	1151	-5.605	110.052	65.029	1.00	0.00	N
ATOM	10931	HN	ASP	1151	-5.494	109.669	64.090	1.00	0.00	H
ATOM	10932	CA	ASP	1151	-6.832	109.830	65.747	1.00	0.00	C
ATOM	10933	CB	ASP	1151	-7.933	109.223	64.860	1.00	0.00	C
ATOM	10934	CG	ASP	1151	-8.291	110.246	63.790	1.00	0.00	C
ATOM	10935	OD1	ASP	1151	-7.530	111.238	63.641	1.00	0.00	O
ATOM	10936	OD2	ASP	1151	-9.328	110.045	63.104	1.00	0.00	O
ATOM	10937	C	ASP	1151	-6.613	108.879	66.887	1.00	0.00	C
ATOM	10938	O	ASP	1151	-6.814	109.222	68.052	1.00	0.00	O
ATOM	10939	N	LEU	1152	-6.150	107.653	66.570	1.00	0.00	N
ATOM	10940	HN	LEU	1152	-5.953	107.437	65.593	1.00	0.00	H
ATOM	10941	CA	LEU	1152	-5.926	106.641	67.566	1.00	0.00	C
ATOM	10942	CB	LEU	1152	-6.846	105.418	67.386	1.00	0.00	C
ATOM	10943	CG	LEU	1152	-6.590	104.280	68.392	1.00	0.00	C
ATOM	10944	CD1	LEU	1152	-6.867	104.737	69.832	1.00	0.00	C
ATOM	10945	CD2	LEU	1152	-7.365	103.007	68.009	1.00	0.00	C
ATOM	10946	C	LEU	1152	-4.533	106.156	67.363	1.00	0.00	C
ATOM	10947	O	LEU	1152	-4.247	105.480	66.377	1.00	0.00	O
ATOM	10948	N	ILE	1153	-3.634	106.454	68.317	1.00	0.00	N
ATOM	10949	HN	ILE	1153	-3.923	106.952	69.159	1.00	0.00	H

ATOM	10950	CA	ILE	1153	-2.266	106.066	68.142	1.00	0.00	C
ATOM	10951	CB	ILE	1153	-1.297	107.121	68.606	1.00	0.00	C
ATOM	10952	CG1	ILE	1153	-1.467	108.411	67.781	1.00	0.00	C
ATOM	10953	CG2	ILE	1153	0.123	106.534	68.544	1.00	0.00	C
ATOM	10954	CD1	ILE	1153	-2.793	109.134	68.022	1.00	0.00	C
ATOM	10955	C	ILE	1153	-2.038	104.838	68.960	1.00	0.00	C
ATOM	10956	O	ILE	1153	-2.130	104.866	70.187	1.00	0.00	O
ATOM	10957	N	VAL	1154	-1.732	103.713	68.282	1.00	0.00	N
ATOM	10958	HN	VAL	1154	-1.643	103.736	67.266	1.00	0.00	H
ATOM	10959	CA	VAL	1154	-1.532	102.485	68.993	1.00	0.00	C
ATOM	10960	CB	VAL	1154	-2.252	101.313	68.391	1.00	0.00	C
ATOM	10961	CG1	VAL	1154	-1.895	100.054	69.199	1.00	0.00	C
ATOM	10962	CG2	VAL	1154	-3.758	101.624	68.358	1.00	0.00	C
ATOM	10963	C	VAL	1154	-0.079	102.161	68.975	1.00	0.00	C
ATOM	10964	O	VAL	1154	0.587	102.240	67.944	1.00	0.00	O
ATOM	10965	N	VAL	1155	0.451	101.791	70.153	1.00	0.00	N
ATOM	10966	HN	VAL	1155	-0.140	101.758	70.984	1.00	0.00	H
ATOM	10967	CA	VAL	1155	1.832	101.443	70.255	1.00	0.00	C
ATOM	10968	CB	VAL	1155	2.474	101.999	71.494	1.00	0.00	C
ATOM	10969	CG1	VAL	1155	3.944	101.550	71.544	1.00	0.00	C
ATOM	10970	CG2	VAL	1155	2.277	103.526	71.505	1.00	0.00	C
ATOM	10971	C	VAL	1155	1.872	99.962	70.350	1.00	0.00	C
ATOM	10972	O	VAL	1155	1.455	99.388	71.356	1.00	0.00	O
ATOM	10973	N	PHE	1156	2.375	99.293	69.297	1.00	0.00	N
ATOM	10974	HN	PHE	1156	2.726	99.775	68.469	1.00	0.00	H
ATOM	10975	CA	PHE	1156	2.389	97.870	69.405	1.00	0.00	C
ATOM	10976	CB	PHE	1156	1.848	97.096	68.182	1.00	0.00	C
ATOM	10977	CG	PHE	1156	2.860	97.034	67.091	1.00	0.00	C
ATOM	10978	CD1	PHE	1156	3.775	96.005	67.075	1.00	0.00	C
ATOM	10979	CD2	PHE	1156	2.892	97.971	66.085	1.00	0.00	C
ATOM	10980	CE1	PHE	1156	4.718	95.913	66.081	1.00	0.00	C
ATOM	10981	CE2	PHE	1156	3.833	97.884	65.086	1.00	0.00	C
ATOM	10982	CZ	PHE	1156	4.747	96.857	65.083	1.00	0.00	C
ATOM	10983	C	PHE	1156	3.801	97.463	69.635	1.00	0.00	C
ATOM	10984	O	PHE	1156	4.737	98.103	69.154	1.00	0.00	O
ATOM	10985	N	GLN	1157	3.995	96.394	70.426	1.00	0.00	N
ATOM	10986	HN	GLN	1157	3.206	95.898	70.841	1.00	0.00	H
ATOM	10987	CA	GLN	1157	5.335	95.974	70.668	1.00	0.00	C
ATOM	10988	CB	GLN	1157	5.655	95.878	72.171	1.00	0.00	C
ATOM	10989	CG	GLN	1157	7.148	95.847	72.503	1.00	0.00	C
ATOM	10990	CD	GLN	1157	7.742	94.568	71.945	1.00	0.00	C
ATOM	10991	OE1	GLN	1157	8.262	94.550	70.831	1.00	0.00	O
ATOM	10992	NE2	GLN	1157	7.643	93.464	72.732	1.00	0.00	N
ATOM	10993	1HE2	GLN	1157	8.043	92.604	72.357	1.00	0.00	H
ATOM	10994	2HE2	GLN	1157	7.212	93.479	73.656	1.00	0.00	H
ATOM	10995	C	GLN	1157	5.475	94.618	70.071	1.00	0.00	C
ATOM	10996	O	GLN	1157	5.236	93.624	70.757	1.00	0.00	O
ATOM	10997	N	ASN	1158	5.833	94.581	68.765	1.00	0.00	N
ATOM	10998	HN	ASN	1158	5.885	95.473	68.274	1.00	0.00	H
ATOM	10999	CA	ASN	1158	6.147	93.398	68.006	1.00	0.00	C
ATOM	11000	CB	ASN	1158	7.646	93.050	67.949	1.00	0.00	C
ATOM	11001	CG	ASN	1158	8.299	93.939	66.897	1.00	0.00	C
ATOM	11002	OD1	ASN	1158	7.780	94.099	65.793	1.00	0.00	O
ATOM	11003	ND2	ASN	1158	9.472	94.530	67.246	1.00	0.00	N
ATOM	11004	1HD2	ASN	1158	9.909	95.125	66.542	1.00	0.00	H
ATOM	11005	2HD2	ASN	1158	9.902	94.397	68.161	1.00	0.00	H
ATOM	11006	C	ASN	1158	5.390	92.192	68.468	1.00	0.00	C
ATOM	11007	O	ASN	1158	5.889	91.431	69.296	1.00	0.00	O
ATOM	11008	N	GLY	1159	4.141	92.016	67.999	1.00	0.00	N
ATOM	11009	HN	GLY	1159	3.717	92.726	67.402	1.00	0.00	H
ATOM	11010	CA	GLY	1159	3.405	90.832	68.336	1.00	0.00	C
ATOM	11011	C	GLY	1159	2.292	91.151	69.287	1.00	0.00	C
ATOM	11012	O	GLY	1159	1.246	90.505	69.234	1.00	0.00	O
ATOM	11013	N	ARG	1160	2.464	92.146	70.181	1.00	0.00	N
ATOM	11014	HN	ARG	1160	3.330	92.684	70.205	1.00	0.00	H
ATOM	11015	CA	ARG	1160	1.393	92.429	71.100	1.00	0.00	C
ATOM	11016	CB	ARG	1160	1.583	91.740	72.462	1.00	0.00	C
ATOM	11017	CG	ARG	1160	2.895	92.099	73.159	1.00	0.00	C
ATOM	11018	CD	ARG	1160	4.119	91.353	72.622	1.00	0.00	C
ATOM	11019	NE	ARG	1160	3.916	89.904	72.903	1.00	0.00	N
ATOM	11020	HE	ARG	1160	2.971	89.533	73.000	1.00	0.00	H
ATOM	11021	CZ	ARG	1160	4.990	89.072	73.031	1.00	0.00	C
ATOM	11022	NH1	ARG	1160	6.257	89.569	72.930	1.00	0.00	N
ATOM	11023	1HH1	ARG	1160	7.060	88.947	73.026	1.00	0.00	H

ATOM	11024	2HH1	ARG	1160	6.400	90.564	72.755	1.00	0.00	H
ATOM	11025	NH2	ARG	1160	4.798	87.741	73.265	1.00	0.00	N
ATOM	11026	1HH2	ARG	1160	5.601	87.119	73.361	1.00	0.00	H
ATOM	11027	2HH2	ARG	1160	3.851	87.370	73.340	1.00	0.00	H
ATOM	11028	C	ARG	1160	1.277	93.914	71.308	1.00	0.00	C
ATOM	11029	O	ARG	1160	2.285	94.612	71.411	1.00	0.00	O
ATOM	11030	N	VAL	1161	0.029	94.444	71.381	1.00	0.00	N
ATOM	11031	HN	VAL	1161	-0.796	93.848	71.323	1.00	0.00	H
ATOM	11032	CA	VAL	1161	-0.100	95.872	71.542	1.00	0.00	C
ATOM	11033	CB	VAL	1161	-1.256	96.521	70.827	1.00	0.00	C
ATOM	11034	CG1	VAL	1161	-1.082	96.312	69.315	1.00	0.00	C
ATOM	11035	CG2	VAL	1161	-2.586	96.021	71.410	1.00	0.00	C
ATOM	11036	C	VAL	1161	-0.214	96.234	72.995	1.00	0.00	C
ATOM	11037	O	VAL	1161	-1.116	95.792	73.707	1.00	0.00	O
ATOM	11038	N	LYS	1162	0.790	96.992	73.482	1.00	0.00	N
ATOM	11039	HN	LYS	1162	1.546	97.248	72.847	1.00	0.00	H
ATOM	11040	CA	LYS	1162	0.862	97.462	74.837	1.00	0.00	C
ATOM	11041	CB	LYS	1162	2.309	97.707	75.290	1.00	0.00	C
ATOM	11042	CG	LYS	1162	2.442	97.803	76.809	1.00	0.00	C
ATOM	11043	CD	LYS	1162	2.161	96.473	77.512	1.00	0.00	C
ATOM	11044	CE	LYS	1162	2.284	96.547	79.032	1.00	0.00	C
ATOM	11045	NZ	LYS	1162	3.694	96.782	79.414	1.00	0.00	N
ATOM	11046	HZ1	LYS	1162	3.776	96.831	80.429	1.00	0.00	H
ATOM	11047	HZ2	LYS	1162	4.081	97.608	78.958	1.00	0.00	H
ATOM	11048	HZ3	LYS	1162	4.320	96.084	79.013	1.00	0.00	H
ATOM	11049	C	LYS	1162	0.083	98.723	75.134	1.00	0.00	C
ATOM	11050	O	LYS	1162	-0.565	98.820	76.175	1.00	0.00	O
ATOM	11051	N	GLU	1163	0.129	99.746	74.248	1.00	0.00	N
ATOM	11052	HN	GLU	1163	0.563	99.627	73.332	1.00	0.00	H
ATOM	11053	CA	GLU	1163	-0.453	101.011	74.635	1.00	0.00	C
ATOM	11054	CB	GLU	1163	0.597	102.088	74.949	1.00	0.00	C
ATOM	11055	CG	GLU	1163	1.447	101.778	76.181	1.00	0.00	C
ATOM	11056	CD	GLU	1163	2.445	102.912	76.351	1.00	0.00	C
ATOM	11057	OE1	GLU	1163	2.316	103.926	75.614	1.00	0.00	O
ATOM	11058	OE2	GLU	1163	3.352	102.778	77.216	1.00	0.00	O
ATOM	11059	C	GLU	1163	-1.282	101.554	73.517	1.00	0.00	C
ATOM	11060	O	GLU	1163	-1.295	101.004	72.418	1.00	0.00	O
ATOM	11061	N	HIS	1164	-2.044	102.638	73.797	1.00	0.00	N
ATOM	11062	HN	HIS	1164	-2.068	103.015	74.744	1.00	0.00	H
ATOM	11063	CA	HIS	1164	-2.818	103.255	72.756	1.00	0.00	C
ATOM	11064	ND1	HIS	1164	-6.213	103.006	72.804	1.00	0.00	N
ATOM	11065	HD1	HIS	1164	-6.350	103.716	72.084	1.00	0.00	H
ATOM	11066	CG	HIS	1164	-5.095	102.222	72.981	1.00	0.00	C
ATOM	11067	CB	HIS	1164	-3.866	102.324	72.129	1.00	0.00	C
ATOM	11068	NE2	HIS	1164	-6.626	101.699	74.554	1.00	0.00	N
ATOM	11069	HE2	HIS	1164	-7.089	101.260	75.350	1.00	0.00	H
ATOM	11070	CD2	HIS	1164	-5.365	101.428	74.053	1.00	0.00	C
ATOM	11071	CE1	HIS	1164	-7.097	102.653	73.771	1.00	0.00	C
ATOM	11072	C	HIS	1164	-3.589	104.397	73.341	1.00	0.00	C
ATOM	11073	O	HIS	1164	-3.740	104.500	74.558	1.00	0.00	O
ATOM	11074	N	GLY	1165	-4.106	105.288	72.465	1.00	0.00	N
ATOM	11075	HN	GLY	1165	-3.933	105.170	71.467	1.00	0.00	H
ATOM	11076	CA	GLY	1165	-4.895	106.398	72.919	1.00	0.00	C
ATOM	11077	C	GLY	1165	-4.451	107.626	72.187	1.00	0.00	C
ATOM	11078	O	GLY	1165	-3.924	107.553	71.078	1.00	0.00	O
ATOM	11079	N	THR	1166	-4.683	108.802	72.808	1.00	0.00	N
ATOM	11080	HN	THR	1166	-5.132	108.789	73.724	1.00	0.00	H
ATOM	11081	CA	THR	1166	-4.326	110.069	72.237	1.00	0.00	C
ATOM	11082	CB	THR	1166	-5.147	111.191	72.792	1.00	0.00	C
ATOM	11083	OG1	THR	1166	-6.524	110.911	72.631	1.00	0.00	O
ATOM	11084	HG1	THR	1166	-6.728	110.116	73.110	1.00	0.00	H
ATOM	11085	CG2	THR	1166	-4.819	112.470	72.021	1.00	0.00	C
ATOM	11086	C	THR	1166	-2.900	110.344	72.614	1.00	0.00	C
ATOM	11087	O	THR	1166	-2.363	109.735	73.537	1.00	0.00	O
ATOM	11088	N	HIS	1167	-2.253	111.300	71.918	1.00	0.00	N
ATOM	11089	HN	HIS	1167	-2.766	111.849	71.229	1.00	0.00	H
ATOM	11090	CA	HIS	1167	-0.855	111.562	72.126	1.00	0.00	C
ATOM	11091	ND1	HIS	1167	1.897	113.366	72.223	1.00	0.00	N
ATOM	11092	HD1	HIS	1167	1.552	113.699	73.123	1.00	0.00	H
ATOM	11093	CG	HIS	1167	1.142	112.847	71.196	1.00	0.00	C
ATOM	11094	CB	HIS	1167	-0.351	112.701	71.223	1.00	0.00	C
ATOM	11095	NE2	HIS	1167	3.315	112.858	70.587	1.00	0.00	N
ATOM	11096	HE2	HIS	1167	4.172	112.739	70.048	1.00	0.00	H
ATOM	11097	CD2	HIS	1167	2.024	112.541	70.205	1.00	0.00	C

ATOM	11098	CE1	HIS	1167	3.189	113.350	71.807	1.00	0.00	C
ATOM	11099	C	HIS	1167	-0.574	111.962	73.545	1.00	0.00	C
ATOM	11100	O	HIS	1167	0.210	111.309	74.231	1.00	0.00	O
ATOM	11101	N	GLN	1168	-1.247	113.014	74.047	1.00	0.00	N
ATOM	11102	HN	GLN	1168	-1.968	113.464	73.483	1.00	0.00	H
ATOM	11103	CA	GLN	1168	-0.967	113.514	75.365	1.00	0.00	C
ATOM	11104	CB	GLN	1168	-1.839	114.718	75.773	1.00	0.00	C
ATOM	11105	CG	GLN	1168	-3.312	114.388	76.059	1.00	0.00	C
ATOM	11106	CD	GLN	1168	-4.082	114.181	74.763	1.00	0.00	C
ATOM	11107	OE1	GLN	1168	-3.524	114.231	73.670	1.00	0.00	O
ATOM	11108	NE2	GLN	1168	-5.416	113.947	74.891	1.00	0.00	N
ATOM	11109	1HE2	GLN	1168	-5.932	113.808	74.022	1.00	0.00	H
ATOM	11110	2HE2	GLN	1168	-5.879	113.905	75.799	1.00	0.00	H
ATOM	11111	C	GLN	1168	-1.308	112.430	76.321	1.00	0.00	C
ATOM	11112	O	GLN	1168	-0.636	112.233	77.333	1.00	0.00	O
ATOM	11113	N	GLN	1169	-2.389	111.701	76.008	1.00	0.00	N
ATOM	11114	HN	GLN	1169	-2.891	111.901	75.143	1.00	0.00	H
ATOM	11115	CA	GLN	1169	-2.853	110.652	76.856	1.00	0.00	C
ATOM	11116	CB	GLN	1169	-4.130	110.000	76.303	1.00	0.00	C
ATOM	11117	CG	GLN	1169	-4.713	108.898	77.187	1.00	0.00	C
ATOM	11118	CD	GLN	1169	-5.973	108.397	76.498	1.00	0.00	C
ATOM	11119	OE1	GLN	1169	-6.325	108.859	75.414	1.00	0.00	O
ATOM	11120	NE2	GLN	1169	-6.677	107.430	77.143	1.00	0.00	N
ATOM	11121	1HE2	GLN	1169	-6.385	107.047	78.042	1.00	0.00	H
ATOM	11122	2HE2	GLN	1169	-7.522	107.094	76.681	1.00	0.00	H
ATOM	11123	C	GLN	1169	-1.775	109.618	76.935	1.00	0.00	C
ATOM	11124	O	GLN	1169	-1.529	109.058	78.001	1.00	0.00	O
ATOM	11125	N	LEU	1170	-1.104	109.337	75.800	1.00	0.00	N
ATOM	11126	HN	LEU	1170	-1.344	109.836	74.943	1.00	0.00	H
ATOM	11127	CA	LEU	1170	-0.059	108.351	75.768	1.00	0.00	C
ATOM	11128	CB	LEU	1170	0.526	108.137	74.362	1.00	0.00	C
ATOM	11129	CG	LEU	1170	-0.447	107.525	73.337	1.00	0.00	C
ATOM	11130	CD1	LEU	1170	0.240	107.356	71.972	1.00	0.00	C
ATOM	11131	CD2	LEU	1170	-1.063	106.213	73.852	1.00	0.00	C
ATOM	11132	C	LEU	1170	1.079	108.811	76.621	1.00	0.00	C
ATOM	11133	O	LEU	1170	1.614	108.049	77.425	1.00	0.00	O
ATOM	11134	N	LEU	1171	1.467	110.091	76.472	1.00	0.00	N
ATOM	11135	HN	LEU	1171	0.971	110.689	75.811	1.00	0.00	H
ATOM	11136	CA	LEU	1171	2.560	110.632	77.221	1.00	0.00	C
ATOM	11137	CB	LEU	1171	2.836	112.106	76.879	1.00	0.00	C
ATOM	11138	CG	LEU	1171	4.004	112.717	77.670	1.00	0.00	C
ATOM	11139	CD1	LEU	1171	5.312	111.955	77.411	1.00	0.00	C
ATOM	11140	CD2	LEU	1171	4.130	114.223	77.388	1.00	0.00	C
ATOM	11141	C	LEU	1171	2.159	110.545	78.647	1.00	0.00	C
ATOM	11142	O	LEU	1171	2.978	110.258	79.516	1.00	0.00	O
ATOM	11143	N	ALA	1172	0.859	110.758	78.916	1.00	0.00	N
ATOM	11144	HN	ALA	1172	0.209	110.956	78.155	1.00	0.00	H
ATOM	11145	CA	ALA	1172	0.383	110.708	80.262	1.00	0.00	C
ATOM	11146	CB	ALA	1172	-1.142	110.883	80.362	1.00	0.00	C
ATOM	11147	C	ALA	1172	0.718	109.349	80.769	1.00	0.00	C
ATOM	11148	O	ALA	1172	1.136	109.188	81.915	1.00	0.00	O
ATOM	11149	N	GLN	1173	0.554	108.329	79.911	1.00	0.00	N
ATOM	11150	HN	GLN	1173	0.183	108.498	78.976	1.00	0.00	H
ATOM	11151	CA	GLN	1173	0.903	107.007	80.319	1.00	0.00	C
ATOM	11152	CB	GLN	1173	0.248	105.951	79.419	1.00	0.00	C
ATOM	11153	CG	GLN	1173	-1.280	105.988	79.497	1.00	0.00	C
ATOM	11154	CD	GLN	1173	-1.816	105.255	78.282	1.00	0.00	C
ATOM	11155	OE1	GLN	1173	-1.133	105.155	77.264	1.00	0.00	O
ATOM	11156	NE2	GLN	1173	-3.070	104.738	78.379	1.00	0.00	N
ATOM	11157	1HE2	GLN	1173	-3.430	104.245	77.562	1.00	0.00	H
ATOM	11158	2HE2	GLN	1173	-3.636	104.821	79.223	1.00	0.00	H
ATOM	11159	C	GLN	1173	2.382	106.924	80.149	1.00	0.00	C
ATOM	11160	O	GLN	1173	2.882	106.299	79.216	1.00	0.00	O
ATOM	11161	N	LYS	1174	3.122	107.533	81.093	1.00	0.00	N
ATOM	11162	HN	LYS	1174	2.657	107.971	81.888	1.00	0.00	H
ATOM	11163	CA	LYS	1174	4.550	107.577	81.002	1.00	0.00	C
ATOM	11164	CB	LYS	1174	5.220	108.192	82.242	1.00	0.00	C
ATOM	11165	CG	LYS	1174	4.623	109.532	82.674	1.00	0.00	C
ATOM	11166	CD	LYS	1174	4.697	110.623	81.612	1.00	0.00	C
ATOM	11167	CE	LYS	1174	3.914	111.884	81.981	1.00	0.00	C
ATOM	11168	NZ	LYS	1174	2.473	111.569	82.095	1.00	0.00	N
ATOM	11169	HZ1	LYS	1174	1.951	112.410	82.341	1.00	0.00	H
ATOM	11170	HZ2	LYS	1174	2.299	110.806	82.749	1.00	0.00	H
ATOM	11171	HZ3	LYS	1174	2.110	111.127	81.250	1.00	0.00	H

ATOM	11172	C	LYS	1174	5.000	106.161	80.956	1.00	0.00	C
ATOM	11173	O	LYS	1174	4.567	105.337	81.762	1.00	0.00	O
ATOM	11174	N	GLY	1175	5.894	105.836	80.007	1.00	0.00	N
ATOM	11175	HN	GLY	1175	6.264	106.538	79.366	1.00	0.00	H
ATOM	11176	CA	GLY	1175	6.306	104.473	79.930	1.00	0.00	C
ATOM	11177	C	GLY	1175	6.902	104.232	78.584	1.00	0.00	C
ATOM	11178	O	GLY	1175	7.859	104.890	78.181	1.00	0.00	O
ATOM	11179	N	ILE	1176	6.346	103.242	77.864	1.00	0.00	N
ATOM	11180	HN	ILE	1176	5.507	102.778	78.213	1.00	0.00	H
ATOM	11181	CA	ILE	1176	6.911	102.828	76.616	1.00	0.00	C
ATOM	11182	CB	ILE	1176	6.161	101.654	76.073	1.00	0.00	C
ATOM	11183	CG1	ILE	1176	6.192	100.528	77.118	1.00	0.00	C
ATOM	11184	CG2	ILE	1176	6.764	101.257	74.715	1.00	0.00	C
ATOM	11185	CD1	ILE	1176	5.120	99.471	76.896	1.00	0.00	C
ATOM	11186	C	ILE	1176	6.857	103.925	75.589	1.00	0.00	C
ATOM	11187	O	ILE	1176	7.897	104.380	75.119	1.00	0.00	O
ATOM	11188	N	TYR	1177	5.658	104.461	75.295	1.00	0.00	N
ATOM	11189	HN	TYR	1177	4.836	104.151	75.813	1.00	0.00	H
ATOM	11190	CA	TYR	1177	5.503	105.461	74.268	1.00	0.00	C
ATOM	11191	CB	TYR	1177	4.052	105.959	74.147	1.00	0.00	C
ATOM	11192	CG	TYR	1177	4.030	107.090	73.177	1.00	0.00	C
ATOM	11193	CD1	TYR	1177	4.039	106.855	71.821	1.00	0.00	C
ATOM	11194	CD2	TYR	1177	3.993	108.390	73.627	1.00	0.00	C
ATOM	11195	CE1	TYR	1177	4.016	107.903	70.931	1.00	0.00	C
ATOM	11196	CE2	TYR	1177	3.970	109.441	72.742	1.00	0.00	C
ATOM	11197	CZ	TYR	1177	3.981	109.198	71.390	1.00	0.00	C
ATOM	11198	OH	TYR	1177	3.956	110.274	70.477	1.00	0.00	O
ATOM	11199	HH	TYR	1177	3.932	111.169	70.794	1.00	0.00	H
ATOM	11200	C	TYR	1177	6.354	106.624	74.648	1.00	0.00	C
ATOM	11201	O	TYR	1177	6.937	107.291	73.795	1.00	0.00	O
ATOM	11202	N	PHE	1178	6.414	106.906	75.958	1.00	0.00	N
ATOM	11203	HN	PHE	1178	5.889	106.321	76.608	1.00	0.00	H
ATOM	11204	CA	PHE	1178	7.184	107.994	76.484	1.00	0.00	C
ATOM	11205	CB	PHE	1178	7.087	108.036	78.023	1.00	0.00	C
ATOM	11206	CG	PHE	1178	7.815	109.221	78.563	1.00	0.00	C
ATOM	11207	CD1	PHE	1178	9.191	109.256	78.596	1.00	0.00	C
ATOM	11208	CD2	PHE	1178	7.113	110.290	79.070	1.00	0.00	C
ATOM	11209	CE1	PHE	1178	9.858	110.345	79.102	1.00	0.00	C
ATOM	11210	CE2	PHE	1178	7.772	111.383	79.578	1.00	0.00	C
ATOM	11211	CZ	PHE	1178	9.146	111.412	79.592	1.00	0.00	C
ATOM	11212	C	PHE	1178	8.620	107.748	76.133	1.00	0.00	C
ATOM	11213	O	PHE	1178	9.303	108.606	75.575	1.00	0.00	O
ATOM	11214	N	SER	1179	9.112	106.530	76.411	1.00	0.00	N
ATOM	11215	HN	SER	1179	8.505	105.804	76.792	1.00	0.00	H
ATOM	11216	CA	SER	1179	10.495	106.260	76.168	1.00	0.00	C
ATOM	11217	CB	SER	1179	10.897	104.824	76.538	1.00	0.00	C
ATOM	11218	OG	SER	1179	10.740	104.626	77.934	1.00	0.00	O
ATOM	11219	HG	SER	1179	10.989	103.738	78.163	1.00	0.00	H
ATOM	11220	C	SER	1179	10.726	106.428	74.706	1.00	0.00	C
ATOM	11221	O	SER	1179	11.837	106.720	74.284	1.00	0.00	O
ATOM	11222	N	MET	1180	9.690	106.218	73.880	1.00	0.00	N
ATOM	11223	HN	MET	1180	8.784	105.940	74.256	1.00	0.00	H
ATOM	11224	CA	MET	1180	9.862	106.386	72.465	1.00	0.00	C
ATOM	11225	CB	MET	1180	8.617	105.971	71.661	1.00	0.00	C
ATOM	11226	CG	MET	1180	8.274	104.483	71.779	1.00	0.00	C
ATOM	11227	SD	MET	1180	9.565	103.358	71.166	1.00	0.00	S
ATOM	11228	CE	MET	1180	9.429	103.852	69.424	1.00	0.00	C
ATOM	11229	C	MET	1180	10.131	107.824	72.160	1.00	0.00	C
ATOM	11230	O	MET	1180	11.012	108.144	71.362	1.00	0.00	O
ATOM	11231	N	VAL	1181	9.380	108.750	72.785	1.00	0.00	N
ATOM	11232	HN	VAL	1181	8.635	108.490	73.431	1.00	0.00	H
ATOM	11233	CA	VAL	1181	9.682	110.117	72.496	1.00	0.00	C
ATOM	11234	CB	VAL	1181	8.675	111.126	72.988	1.00	0.00	C
ATOM	11235	CG1	VAL	1181	7.407	110.960	72.134	1.00	0.00	C
ATOM	11236	CG2	VAL	1181	8.402	110.940	74.484	1.00	0.00	C
ATOM	11237	C	VAL	1181	11.049	110.343	73.048	1.00	0.00	C
ATOM	11238	O	VAL	1181	11.812	111.173	72.558	1.00	0.00	O
ATOM	11239	N	SER	1182	11.381	109.579	74.102	1.00	0.00	N
ATOM	11240	HN	SER	1182	10.685	108.926	74.461	1.00	0.00	H
ATOM	11241	CA	SER	1182	12.659	109.631	74.750	1.00	0.00	C
ATOM	11242	CB	SER	1182	12.695	108.701	75.973	1.00	0.00	C
ATOM	11243	OG	SER	1182	13.964	108.765	76.598	1.00	0.00	O
ATOM	11244	HG	SER	1182	13.986	108.190	77.354	1.00	0.00	H
ATOM	11245	C	SER	1182	13.790	109.228	73.804	1.00	0.00	C

ATOM	11246	O	SER	1182	14.783	109.947	73.707	1.00	0.00	O
ATOM	11247	N	VAL	1183	13.676	108.087	73.074	1.00	0.00	N
ATOM	11248	HN	VAL	1183	12.817	107.546	73.172	1.00	0.00	H
ATOM	11249	CA	VAL	1183	14.689	107.582	72.164	1.00	0.00	C
ATOM	11250	CB	VAL	1183	14.312	106.285	71.503	1.00	0.00	C
ATOM	11251	CG1	VAL	1183	13.080	106.510	70.612	1.00	0.00	C
ATOM	11252	CG2	VAL	1183	15.536	105.757	70.734	1.00	0.00	C
ATOM	11253	C	VAL	1183	14.806	108.636	71.106	1.00	0.00	C
ATOM	11254	O	VAL	1183	15.890	108.907	70.593	1.00	0.00	O
ATOM	11255	N	GLN	1184	13.662	109.275	70.778	1.00	0.00	N
ATOM	11256	HN	GLN	1184	12.810	109.027	71.280	1.00	0.00	H
ATOM	11257	CA	GLN	1184	13.581	110.286	69.759	1.00	0.00	C
ATOM	11258	CB	GLN	1184	12.154	110.825	69.567	1.00	0.00	C
ATOM	11259	CG	GLN	1184	12.052	111.904	68.488	1.00	0.00	C
ATOM	11260	CD	GLN	1184	10.597	112.341	68.411	1.00	0.00	C
ATOM	11261	OE1	GLN	1184	9.990	112.708	69.416	1.00	0.00	O
ATOM	11262	NE2	GLN	1184	10.015	112.287	67.184	1.00	0.00	N
ATOM	11263	1HE2	GLN	1184	10.518	111.983	66.351	1.00	0.00	H
ATOM	11264	2HE2	GLN	1184	9.039	112.580	67.132	1.00	0.00	H
ATOM	11265	C	GLN	1184	14.435	111.441	70.140	1.00	0.00	C
ATOM	11266	O	GLN	1184	15.128	112.011	69.299	1.00	0.00	O
ATOM	11267	N	ALA	1185	14.416	111.813	71.430	1.00	0.00	N
ATOM	11268	HN	ALA	1185	13.835	111.304	72.097	1.00	0.00	H
ATOM	11269	CA	ALA	1185	15.206	112.919	71.873	1.00	0.00	C
ATOM	11270	CB	ALA	1185	15.018	113.221	73.368	1.00	0.00	C
ATOM	11271	C	ALA	1185	16.681	112.585	71.651	1.00	0.00	C
ATOM	11272	O	ALA	1185	16.990	111.493	71.104	1.00	0.00	O
ATOM	11273	OXT	ALA	1185	17.528	113.437	72.034	1.00	0.00	O
HETATM	11274	O	LIG	1	16.952	89.848	45.312	1.00	0.00	O
HETATM	11275	O	LIG	1	14.334	92.088	48.319	1.00	0.00	O
HETATM	11276	N	LIG	1	14.075	90.028	47.249	1.00	0.00	N
HETATM	11277	N	LIG	1	15.877	91.245	46.802	1.00	0.00	N
HETATM	11278	C	LIG	1	14.778	89.192	46.276	1.00	0.00	C
HETATM	11279	C	LIG	1	16.005	90.105	46.047	1.00	0.00	C
HETATM	11280	C	LIG	1	14.723	91.225	47.544	1.00	0.00	C
HETATM	11281	H	LIG	1	13.184	89.775	47.665	1.00	0.00	H
HETATM	11282	H	LIG	1	16.555	91.997	46.820	1.00	0.00	H
HETATM	11283	C	LIG	1	15.262	87.857	46.857	1.00	0.00	C
HETATM	11284	C	LIG	1	15.585	86.801	46.005	1.00	0.00	C
HETATM	11285	C	LIG	1	16.025	85.588	46.533	1.00	0.00	C
HETATM	11286	C	LIG	1	16.142	85.430	47.915	1.00	0.00	C
HETATM	11287	C	LIG	1	15.818	86.486	48.767	1.00	0.00	C
HETATM										

CONECT	25	27	21	26
CONECT	26	25		
CONECT	27	28	29	25
CONECT	28	27		
CONECT	29	30	27	37
CONECT	30	31	29	
CONECT	31	33	32	30
CONECT	32	34	31	
CONECT	33	35	31	
CONECT	34	36	32	
CONECT	35	36	33	
CONECT	36	35	34	
CONECT	37	39	29	38
CONECT	38	37		
CONECT	39	40	41	37
CONECT	40	39		
CONECT	41	42	39	45
CONECT	42	43	41	
CONECT	43	44	42	
CONECT	44	43		
CONECT	45	41	46	47
CONECT	46	45		
CONECT	47	45	48	49
CONECT	48	47		
CONECT	49	47	54	50
CONECT	50	49	51	
CONECT	51	50	52	
CONECT	52	51	53	
CONECT	53	52		
CONECT	54	49	56	55
CONECT	55	54		
CONECT	56	57	58	54
CONECT	57	56		
CONECT	58	59	56	66
CONECT	59	60	58	
CONECT	60	59	62	61
CONECT	61	60	63	
CONECT	62	60	64	
CONECT	63	61	65	
CONECT	64	62	65	
CONECT	65	64	63	
CONECT	66	68	58	67
CONECT	67	66		
CONECT	68	69	70	66
CONECT	69	68		
CONECT	70	71	83	68
CONECT	71	72	70	
CONECT	72	73	71	
CONECT	73	74	72	
CONECT	74	76	73	75
CONECT	75	74		
CONECT	76	77	80	74
CONECT	77	79	78	76
CONECT	78	77		
CONECT	79	77		
CONECT	80	82	76	81
CONECT	81	80		
CONECT	82	80		
CONECT	83	84	70	85
CONECT	84	83		
CONECT	85	83	87	86
CONECT	86	85		
CONECT	87	85	88	97
CONECT	88	87	89	
CONECT	89	88	90	91
CONECT	90	89	92	
CONECT	91	89	93	
CONECT	92	90	94	
CONECT	93	91	94	
CONECT	94	92	93	95
CONECT	95	94	96	
CONECT	96	95		
CONECT	97	87	98	99
CONECT	98	97		

CONECT	99	97	100	101
CONECT	100	99		
CONECT	101	99	105	102
CONECT	102	101	103	
CONECT	103	102	104	
CONECT	104	103		
CONECT	105	107	101	106
CONECT	106	105		
CONECT	107	108	109	105
CONECT	108	107		
CONECT	109	116	110	107
CONECT	110	109	111	
CONECT	111	110	113	112
CONECT	112	111		
CONECT	113	114	111	115
CONECT	114	113		
CONECT	115	113		
CONECT	116	117	118	109
CONECT	117	116		
CONECT	118	120	116	119
CONECT	119	118		
CONECT	120	132	121	118
CONECT	121	122	120	
CONECT	122	124	123	121
CONECT	123	127	122	128
CONECT	124	125	122	
CONECT	125	126	124	127
CONECT	126	125		
CONECT	127	125	129	123
CONECT	128	123	130	
CONECT	129	127	131	
CONECT	130	131	128	
CONECT	131	129	130	
CONECT	132	133	120	134
CONECT	133	132		
CONECT	134	132	136	135
CONECT	135	134		
CONECT	136	141	134	137
CONECT	137	136	138	
CONECT	138	137	139	140
CONECT	139	138		
CONECT	140	138		
CONECT	141	142	136	143
CONECT	142	141		
CONECT	143	141	145	144
CONECT	144	143		
CONECT	145	150	143	146
CONECT	146	145	147	
CONECT	147	146	148	149
CONECT	148	147		
CONECT	149	147		
CONECT	150	152	151	145
CONECT	151	150		
CONECT	152	154	153	150
CONECT	153	152		
CONECT	154	163	155	152
CONECT	155	156	154	
CONECT	156	157	155	
CONECT	157	158	156	
CONECT	158	159	157	
CONECT	159	160	161	162
CONECT	159			158
CONECT	160	159		
CONECT	161	159		
CONECT	162	159		
CONECT	163	164	165	154
CONECT	164	163		
CONECT	165	167	163	166
CONECT	166	165		
CONECT	167	168	172	165
CONECT	168	169	167	
CONECT	169	171	168	170
CONECT	170	169		
CONECT	171	169		

CONECT	172	173	167	174
CONECT	173	172		
CONECT	174	172	176	175
CONECT	175	174		
CONECT	176	186	174	177
CONECT	177	176	178	
CONECT	178	179	177	180
CONECT	179	181	178	
CONECT	180	178	182	
CONECT	181	179	183	
CONECT	182	183	180	
CONECT	183	181	184	182
CONECT	184	185	183	
CONECT	185	184		
CONECT	186	187	188	176
CONECT	187	186		
CONECT	188	190	186	189
CONECT	189	188		
CONECT	190	195	191	188
CONECT	191	192	190	
CONECT	192	191	193	
CONECT	193	192	194	
CONECT	194	193		
CONECT	195	197	196	190
CONECT	196	195		
CONECT	197	199	198	195
CONECT	198	197		
CONECT	199	200	203	197
CONECT	200	201	202	199
CONECT	201	200		
CONECT	202	200		
CONECT	203	204	199	205
CONECT	204	203		
CONECT	205	203	207	206
CONECT	206	205		
CONECT	207	211	205	208
CONECT	208	207	210	209
CONECT	209	208		
CONECT	210	208		
CONECT	211	212	207	213
CONECT	212	211		
CONECT	213	211	215	214
CONECT	214	213		
CONECT	215	216	213	
CONECT	216	218	217	215
CONECT	217	216		
CONECT	218	220	219	216
CONECT	219	218		
CONECT	220	225	221	218
CONECT	221	224	220	222
CONECT	222	221	223	
CONECT	223	222		
CONECT	224	221		
CONECT	225	227	226	220
CONECT	226	225		
CONECT	227	229	228	225
CONECT	228	227		
CONECT	229	230	234	227
CONECT	230	231	229	
CONECT	231	233	232	230
CONECT	232	231		
CONECT	233	231		
CONECT	234	235	229	236
CONECT	235	234		
CONECT	236	234	238	237
CONECT	237	236		
CONECT	238	236	240	239
CONECT	239	238		
CONECT	240	241	238	242
CONECT	241	240		
CONECT	242	240	244	243
CONECT	243	242		
CONECT	244	246	242	245
CONECT	245	244		

CONECT	246	248	247	244
CONECT	247	246		
CONECT	248	250	249	246
CONECT	249	248		
CONECT	250	251	255	248
CONECT	251	253	252	250
CONECT	252	251	254	
CONECT	253	251		
CONECT	254	252		
CONECT	255	256	257	250
CONECT	256	255		
CONECT	257	259	255	258
CONECT	258	257		
CONECT	259	260	264	257
CONECT	260	262	259	261
CONECT	261	260	263	
CONECT	262	260		
CONECT	263	261		
CONECT	264	265	259	266
CONECT	265	264		
CONECT	266	264	267	268
CONECT	267	266		
CONECT	268	277	266	272
CONECT	269	270	271	276
CONECT	270	269		
CONECT	271	272	269	275
CONECT	272	268	271	
CONECT	273	276	275	274
CONECT	274	273		
CONECT	275	271	273	
CONECT	276	269	273	
CONECT	277	278	279	268
CONECT	278	277		
CONECT	279	281	280	277
CONECT	280	279		
CONECT	281	282	279	
CONECT	282	284	283	281
CONECT	283	282		
CONECT	284	286	285	282
CONECT	285	284		
CONECT	286	287	288	284
CONECT	287	286		
CONECT	288	289	286	290
CONECT	289	288		
CONECT	290	288	292	291
CONECT	291	290		
CONECT	292	290	293	
CONECT	293	294	292	295
CONECT	294	293		
CONECT	295	293	297	296
CONECT	296	295		
CONECT	297	302	295	298
CONECT	298	297	299	
CONECT	299	298	300	301
CONECT	300	299		
CONECT	301	299		
CONECT	302	304	303	297
CONECT	303	302		
CONECT	304	305	306	302
CONECT	305	309	307	304
CONECT	306	308	304	
CONECT	307	305	308	
CONECT	308	307	306	
CONECT	309	310	311	305
CONECT	310	309		
CONECT	311	313	309	312
CONECT	312	311		
CONECT	313	318	314	311
CONECT	314	313	315	
CONECT	315	317	314	316
CONECT	316	315		
CONECT	317	315		
CONECT	318	319	313	320
CONECT	319	318		

CONECT	320	318	322	321
CONECT	321	320		
CONECT	322	327	320	323
CONECT	323	322	324	
CONECT	324	323	325	
CONECT	325	324	326	
CONECT	326	325		
CONECT	327	328	329	322
CONECT	328	327		
CONECT	329	331	330	327
CONECT	330	329		
CONECT	331	336	332	329
CONECT	332	331	333	
CONECT	333	332	334	
CONECT	334	333	335	
CONECT	335	334		
CONECT	336	338	337	331
CONECT	337	336		
CONECT	338	340	339	336
CONECT	339	338		
CONECT	340	341	345	338
CONECT	341	342	340	
CONECT	342	344	343	341
CONECT	343	342		
CONECT	344	342		
CONECT	345	346	340	347
CONECT	346	345		
CONECT	347	345	349	348
CONECT	348	347		
CONECT	349	347	353	350
CONECT	350	349	351	352
CONECT	351	350		
CONECT	352	350		
CONECT	353	354	349	355
CONECT	354	353		
CONECT	355	353	357	356
CONECT	356	355		
CONECT	357	365	355	358
CONECT	358	357	359	
CONECT	359	361	358	360
CONECT	360	359	362	
CONECT	361	363	359	
CONECT	362	364	360	
CONECT	363	361	364	
CONECT	364	363	362	
CONECT	365	367	366	357
CONECT	366	365		
CONECT	367	369	368	365
CONECT	368	367		
CONECT	369	370	367	
CONECT	370	371	372	369
CONECT	371	370		
CONECT	372	374	370	373
CONECT	373	372		
CONECT	374	375	380	372
CONECT	375	376	374	
CONECT	376	377	375	
CONECT	377	379	376	378
CONECT	378	377		
CONECT	379	377		
CONECT	380	381	374	382
CONECT	381	380		
CONECT	382	380	384	383
CONECT	383	382		
CONECT	384	389	382	385
CONECT	385	384	386	
CONECT	386	385	387	
CONECT	387	386	388	
CONECT	388	387		
CONECT	389	390	391	384
CONECT	390	389		
CONECT	391	393	389	392
CONECT	392	391		
CONECT	393	398	394	391

CONECT	394	397	393	395
CONECT	395	394	396	
CONECT	396	395		
CONECT	397	394		
CONECT	398	400	399	393
CONECT	399	398		
CONECT	400	402	401	398
CONECT	401	400		
CONECT	402	403	407	400
CONECT	403	404	402	
CONECT	404	406	405	403
CONECT	405	404		
CONECT	406	404		
CONECT	407	408	402	409
CONECT	408	407		
CONECT	409	407	411	410
CONECT	410	409		
CONECT	411	409	416	412
CONECT	412	413	411	414
CONECT	413	415	412	
CONECT	414	412		
CONECT	415	413		
CONECT	416	417	411	418
CONECT	417	416		
CONECT	418	416	419	420
CONECT	419	418		
CONECT	420	428	418	421
CONECT	421	420	422	
CONECT	422	421	424	423
CONECT	423	422	425	
CONECT	424	422	426	
CONECT	425	423	427	
CONECT	426	424	427	
CONECT	427	426	425	
CONECT	428	430	429	420
CONECT	429	428		
CONECT	430	432	431	428
CONECT	431	430		
CONECT	432	434	433	430
CONECT	433	432		
CONECT	434	436	435	432
CONECT	435	434		
CONECT	436	438	437	434
CONECT	437	436		
CONECT	438	439	445	436
CONECT	439	440	438	
CONECT	440	441	442	439
CONECT	441	440		
CONECT	442	444	440	443
CONECT	443	442		
CONECT	444	442		
CONECT	445	446	438	447
CONECT	446	445		
CONECT	447	445	449	448
CONECT	448	447		
CONECT	449	447	451	450
CONECT	450	449		
CONECT	451	452	449	453
CONECT	452	451		
CONECT	453	451	455	454
CONECT	454	453		
CONECT	455	456	453	
CONECT	456	458	457	455
CONECT	457	456		
CONECT	458	460	459	456
CONECT	459	458		
CONECT	460	461	467	458
CONECT	461	462	460	
CONECT	462	463	464	461
CONECT	463	462		
CONECT	464	466	462	465
CONECT	465	464		
CONECT	466	464		
CONECT	467	468	469	460

CONECT	468	467		
CONECT	469	471	467	470
CONECT	470	469		
CONECT	471	472	469	476
CONECT	472	473	471	
CONECT	473	474	475	472
CONECT	474	473		
CONECT	475	473		
CONECT	476	471	477	478
CONECT	477	476		
CONECT	478	476	479	480
CONECT	479	478		
CONECT	480	478	486	481
CONECT	481	480	482	
CONECT	482	483	481	
CONECT	483	484	485	482
CONECT	484	483		
CONECT	485	483		
CONECT	486	480	487	488
CONECT	487	486		
CONECT	488	486	489	490
CONECT	489	488		
CONECT	490	488	491	495
CONECT	491	490	492	
CONECT	492	491	494	493
CONECT	493	492		
CONECT	494	492		
CONECT	495	490	496	497
CONECT	496	495		
CONECT	497	495	498	499
CONECT	498	497		
CONECT	499	504	497	500
CONECT	500	499	501	
CONECT	501	500	502	503
CONECT	502	501		
CONECT	503	501		
CONECT	504	506	505	499
CONECT	505	504		
CONECT	506	508	507	504
CONECT	507	506		
CONECT	508	513	509	506
CONECT	509	508	510	
CONECT	510	509	511	
CONECT	511	510	512	
CONECT	512	511		
CONECT	513	514	515	508
CONECT	514	513		
CONECT	515	517	513	516
CONECT	516	515		
CONECT	517	521	518	515
CONECT	518	517	519	
CONECT	519	518	520	
CONECT	520	519		
CONECT	521	523	522	517
CONECT	522	521		
CONECT	523	525	524	521
CONECT	524	523		
CONECT	525	526	532	523
CONECT	526	527	525	
CONECT	527	529	528	526
CONECT	528	527		
CONECT	529	530	531	527
CONECT	530	529		
CONECT	531	529		
CONECT	532	533	525	534
CONECT	533	532		
CONECT	534	532	535	536
CONECT	535	534		
CONECT	536	541	534	537
CONECT	537	536	539	538
CONECT	538	537	540	
CONECT	539	537		
CONECT	540	538		
CONECT	541	542	543	536

CONECT	542	541		
CONECT	543	545	541	544
CONECT	544	543		
CONECT	545	550	546	543
CONECT	546	549	547	545
CONECT	547	548	546	
CONECT	548	547		
CONECT	549	546		
CONECT	550	551	552	545
CONECT	551	550		
CONECT	552	554	550	553
CONECT	553	552		
CONECT	554	555	561	552
CONECT	555	556	554	
CONECT	556	557	558	555
CONECT	557	556		
CONECT	558	560	556	559
CONECT	559	558		
CONECT	560	558		
CONECT	561	554	563	562
CONECT	562	561		
CONECT	563	564	565	561
CONECT	564	563		
CONECT	565	566	563	578
CONECT	566	567	565	
CONECT	567	568	566	
CONECT	568	569	567	
CONECT	569	570	571	568
CONECT	570	569		
CONECT	571	575	569	572
CONECT	572	571	573	574
CONECT	573	572		
CONECT	574	572		
CONECT	575	577	576	571
CONECT	576	575		
CONECT	577	575		
CONECT	578	565	579	580
CONECT	579	578		
CONECT	580	578	581	582
CONECT	581	580		
CONECT	582	580	586	583
CONECT	583	582	584	
CONECT	584	583	585	
CONECT	585	584		
CONECT	586	588	582	587
CONECT	587	586		
CONECT	588	589	590	586
CONECT	589	588		
CONECT	590	591	588	595
CONECT	591	592	590	
CONECT	592	594	593	591
CONECT	593	592		
CONECT	594	592		
CONECT	595	597	590	596
CONECT	596	595		
CONECT	597	598	599	595
CONECT	598	597		
CONECT	599	600	597	604
CONECT	600	601	602	599
CONECT	601	603	600	
CONECT	602	600		
CONECT	603	601		
CONECT	604	599	605	606
CONECT	605	604		
CONECT	606	604	607	608
CONECT	607	606		
CONECT	608	606	609	615
CONECT	609	610	608	
CONECT	610	612	611	609
CONECT	611	610		
CONECT	612	613	614	610
CONECT	613	612		
CONECT	614	612		
CONECT	615	608	617	616

CONECT	616	615		
CONECT	617	618	615	619
CONECT	618	617		
CONECT	619	617	624	620
CONECT	620	621	619	
CONECT	621	623	622	620
CONECT	622	621		
CONECT	623	621		
CONECT	624	626	619	625
CONECT	625	624		
CONECT	626	627	628	624
CONECT	627	626		
CONECT	628	629	633	626
CONECT	629	632	630	628
CONECT	630	629	631	
CONECT	631	630		
CONECT	632	629		
CONECT	633	635	628	634
CONECT	634	633		
CONECT	635	636	637	633
CONECT	636	635		
CONECT	637	635	638	
CONECT	638	637	639	640
CONECT	639	638		
CONECT	640	638	641	642
CONECT	641	640		
CONECT	642	640	643	650
CONECT	643	644	642	
CONECT	644	645	646	643
CONECT	645	647	644	
CONECT	646	648	644	
CONECT	647	649	645	
CONECT	648	649	646	
CONECT	649	647	648	
CONECT	650	642	652	651
CONECT	651	650		
CONECT	652	653	650	654
CONECT	653	652		
CONECT	654	652	662	655
CONECT	655	654	656	
CONECT	656	655	657	658
CONECT	657	656	659	
CONECT	658	656	660	
CONECT	659	657	661	
CONECT	660	658	661	
CONECT	661	659	660	
CONECT	662	664	654	663
CONECT	663	662		
CONECT	664	665	666	662
CONECT	665	664		
CONECT	666	667	664	671
CONECT	667	668	666	
CONECT	668	669	667	
CONECT	669	670	668	
CONECT	670	669		
CONECT	671	666	673	672
CONECT	672	671		
CONECT	673	674	671	675
CONECT	674	673		
CONECT	675	676	673	682
CONECT	676	677	675	
CONECT	677	678	676	679
CONECT	678	677		
CONECT	679	677	681	680
CONECT	680	679		
CONECT	681	679		
CONECT	682	675	684	683
CONECT	683	682		
CONECT	684	685	682	686
CONECT	685	684		
CONECT	686	684	687	691
CONECT	687	686	688	
CONECT	688	687	689	690
CONECT	689	688		

CONECT	690	688		
CONECT	691	686	693	692
CONECT	692	691		
CONECT	693	694	691	695
CONECT	694	693		
CONECT	695	693	696	701
CONECT	696	697	695	
CONECT	697	696	698	
CONECT	698	697	700	699
CONECT	699	698		
CONECT	700	698		
CONECT	701	703	695	702
CONECT	702	701		
CONECT	703	704	705	701
CONECT	704	703		
CONECT	705	706	703	711
CONECT	706	707	705	
CONECT	707	708	706	
CONECT	708	709	707	710
CONECT	709	708		
CONECT	710	708		
CONECT	711	705	713	712
CONECT	712	711		
CONECT	713	714	711	715
CONECT	714	713		
CONECT	715	713	716	720
CONECT	716	715	717	
CONECT	717	716	719	718
CONECT	718	717		
CONECT	719	717		
CONECT	720	715	722	721
CONECT	721	720		
CONECT	722	723	720	724
CONECT	723	722		
CONECT	724	722	725	729
CONECT	725	724	726	
CONECT	726	725	727	
CONECT	727	726	728	
CONECT	728	727		
CONECT	729	731	724	730
CONECT	730	729		
CONECT	731	732	733	729
CONECT	732	731		
CONECT	733	734	731	738
CONECT	734	735	737	733
CONECT	735	736	734	
CONECT	736	735		
CONECT	737	734		
CONECT	738	740	733	739
CONECT	739	738		
CONECT	740	741	742	738
CONECT	741	740		
CONECT	742	743	740	755
CONECT	743	744	742	
CONECT	744	745	743	
CONECT	745	746	744	
CONECT	746	747	748	745
CONECT	747	746		
CONECT	748	752	746	749
CONECT	749	748	750	751
CONECT	750	749		
CONECT	751	749		
CONECT	752	754	753	748
CONECT	753	752		
CONECT	754	752		
CONECT	755	742	756	757
CONECT	756	755		
CONECT	757	755	758	759
CONECT	758	757		
CONECT	759	757	760	769
CONECT	760	761	759	
CONECT	761	763	762	760
CONECT	762	764	761	
CONECT	763	765	761	

CONECT	764	766	762	
CONECT	765	766	763	
CONECT	766	767	765	764
CONECT	767	768	766	
CONECT	768	767		
CONECT	769	759	771	770
CONECT	770	769		
CONECT	771	772	769	773
CONECT	772	771		
CONECT	773	771	775	774
CONECT	774	773		
CONECT	775	777	773	776
CONECT	776	775		
CONECT	777	778	779	775
CONECT	778	777		
CONECT	779	780	777	789
CONECT	780	781	779	
CONECT	781	783	782	780
CONECT	782	784	781	
CONECT	783	785	781	
CONECT	784	786	782	
CONECT	785	786	783	
CONECT	786	787	785	784
CONECT	787	788	786	
CONECT	788	787		
CONECT	789	779	791	790
CONECT	790	789		
CONECT	791	792	789	793
CONECT	792	791		
CONECT	793	794	791	803
CONECT	794	793	795	
CONECT	795	794	797	796
CONECT	796	795	798	
CONECT	797	795	799	
CONECT	798	796	800	
CONECT	799	797	800	
CONECT	800	799	798	801
CONECT	801	800	802	
CONECT	802	801		
CONECT	803	793	804	805
CONECT	804	803		
CONECT	805	803	806	807
CONECT	806	805		
CONECT	807	805	817	808
CONECT	808	807	809	
CONECT	809	810	808	811
CONECT	810	812	809	
CONECT	811	809	813	
CONECT	812	810	814	
CONECT	813	814	811	
CONECT	814	812	815	813
CONECT	815	814	816	
CONECT	816	815		
CONECT	817	819	807	818
CONECT	818	817		
CONECT	819	820	821	817
CONECT	820	819		
CONECT	821	822	819	825
CONECT	822	823	821	
CONECT	823	824	822	
CONECT	824	823		
CONECT	825	827	821	826
CONECT	826	825		
CONECT	827	828	829	825
CONECT	828	827		
CONECT	829	827	830	
CONECT	830	829	832	831
CONECT	831	830		
CONECT	832	833	830	834
CONECT	833	832		
CONECT	834	832	835	839
CONECT	835	836	834	837
CONECT	836	838	835	
CONECT	837	835		

CONECT	838	836		
CONECT	839	834	841	840
CONECT	840	839		
CONECT	841	842	839	843
CONECT	842	841		
CONECT	843	841	844	
CONECT	844	843	846	845
CONECT	845	844		
CONECT	846	847	844	848
CONECT	847	846		
CONECT	848	849	846	850
CONECT	849	848		
CONECT	850	852	848	851
CONECT	851	850		
CONECT	852	853	854	850
CONECT	853	852		
CONECT	854	852	855	
CONECT	855	854	857	856
CONECT	856	855		
CONECT	857	858	855	859
CONECT	858	857		
CONECT	859	857	860	863
CONECT	860	862	859	861
CONECT	861	860		
CONECT	862	860		
CONECT	863	859	865	864
CONECT	864	863		
CONECT	865	866	863	867
CONECT	866	865		
CONECT	867	865	872	868
CONECT	868	867	869	
CONECT	869	868	871	870
CONECT	870	869		
CONECT	871	869		
CONECT	872	874	867	873
CONECT	873	872		
CONECT	874	875	876	872
CONECT	875	874		
CONECT	876	877	874	880
CONECT	877	879	878	876
CONECT	878	877		
CONECT	879	877		
CONECT	880	882	876	881
CONECT	881	880		
CONECT	882	883	884	880
CONECT	883	882		
CONECT	884	885	882	886
CONECT	885	884		
CONECT	886	884	887	888
CONECT	887	886		
CONECT	888	886	889	890
CONECT	889	888		
CONECT	890	888	891	892
CONECT	891	890		
CONECT	892	890	894	893
CONECT	893	892		
CONECT	894	895	892	896
CONECT	895	894		
CONECT	896	894	906	897
CONECT	897	896	898	
CONECT	898	897	900	899
CONECT	899	898	901	
CONECT	900	898	902	
CONECT	901	899	903	
CONECT	902	900	903	
CONECT	903	902	901	904
CONECT	904	903	905	
CONECT	905	904		
CONECT	906	908	896	907
CONECT	907	906		
CONECT	908	909	910	906
CONECT	909	908		
CONECT	910	911	915	908
CONECT	911	912	913	910

CONECT	912	911	914	
CONECT	913	911		
CONECT	914	912		
CONECT	915	917	910	916
CONECT	916	915		
CONECT	917	918	919	915
CONECT	918	917		
CONECT	919	920	917	927
CONECT	920	921	919	
CONECT	921	922	920	
CONECT	922	923	921	924
CONECT	923	922		
CONECT	924	922	926	925
CONECT	925	924		
CONECT	926	924		
CONECT	927	919	928	929
CONECT	928	927		
CONECT	929	927	930	931
CONECT	930	929		
CONECT	931	929	935	932
CONECT	932	934	931	933
CONECT	933	932		
CONECT	934	932		
CONECT	935	931	937	936
CONECT	936	935		
CONECT	937	938	935	939
CONECT	938	937		
CONECT	939	937	940	943
CONECT	940	941	939	
CONECT	941	942	940	
CONECT	942	941		
CONECT	943	945	939	944
CONECT	944	943		
CONECT	945	946	947	943
CONECT	946	945		
CONECT	947	948	945	955
CONECT	948	949	947	
CONECT	949	951	948	950
CONECT	950	949	952	
CONECT	951	953	949	
CONECT	952	954	950	
CONECT	953	951	954	
CONECT	954	953	952	
CONECT	955	947	957	956
CONECT	956	955		
CONECT	957	958	955	959
CONECT	958	957		
CONECT	959	957	960	971
CONECT	960	959	961	
CONECT	961	960	962	963
CONECT	962	967	961	966
CONECT	963	961	964	
CONECT	964	966	963	965
CONECT	965	964		
CONECT	966	962	968	964
CONECT	967	969	962	
CONECT	968	970	966	
CONECT	969	967	970	
CONECT	970	969	968	
CONECT	971	959	972	973
CONECT	972	971		
CONECT	973	971	974	975
CONECT	974	973		
CONECT	975	973	978	976
CONECT	976	975	977	
CONECT	977	976		
CONECT	978	980	975	979
CONECT	979	978		
CONECT	980	981	982	978
CONECT	981	980		
CONECT	982	983	987	980
CONECT	983	984	982	
CONECT	984	985	983	986
CONECT	985	984		

CONECT	986	984		
CONECT	987	989	982	988
CONECT	988	987		
CONECT	989	990	991	987
CONECT	990	989		
CONECT	991	992	989	993
CONECT	992	991		
CONECT	993	991	995	994
CONECT	994	993		
CONECT	995	996	993	997
CONECT	996	995		
CONECT	997	995	998	999
CONECT	998	997		
CONECT	999	997	1001	1000
CONECT	1000	999		
CONECT	1001	1002	999	1003
CONECT	1002	1001		
CONECT	1003	1001	1004	
CONECT	1004	1006	1003	1005
CONECT	1005	1004		
CONECT	1006	1007	1008	1004
CONECT	1007	1006		
CONECT	1008	1009	1006	1021
CONECT	1009	1010	1008	
CONECT	1010	1011	1009	
CONECT	1011	1012	1010	
CONECT	1012	1013	1011	1014
CONECT	1013	1012		
CONECT	1014	1012	1018	1015
CONECT	1015	1014	1017	1016
CONECT	1016	1015		
CONECT	1017	1015		
CONECT	1018	1020	1014	1019
CONECT	1019	1018		
CONECT	1020	1018		
CONECT	1021	1023	1008	1022
CONECT	1022	1021		
CONECT	1023	1024	1025	1021
CONECT	1024	1023		
CONECT	1025	1026	1023	1033
CONECT	1026	1027	1025	
CONECT	1027	1028	1026	
CONECT	1028	1030	1029	1027
CONECT	1029	1028		
CONECT	1030	1031	1032	1028
CONECT	1031	1030		
CONECT	1032	1030		
CONECT	1033	1025	1034	1035
CONECT	1034	1033		
CONECT	1035	1033	1036	1037
CONECT	1036	1035		
CONECT	1037	1035	1038	1042
CONECT	1038	1039	1037	1040
CONECT	1039	1041	1038	
CONECT	1040	1038		
CONECT	1041	1039		
CONECT	1042	1037	1044	1043
CONECT	1043	1042		
CONECT	1044	1045	1042	1046
CONECT	1045	1044		
CONECT	1046	1044	1050	1055
CONECT	1047	1049	1048	1054
CONECT	1048	1047		
CONECT	1049	1050	1053	1047
CONECT	1050	1046	1049	
CONECT	1051	1053	1054	1052
CONECT	1052	1051		
CONECT	1053	1049	1051	
CONECT	1054	1047	1051	
CONECT	1055	1057	1046	1056
CONECT	1056	1055		
CONECT	1057	1058	1059	1055
CONECT	1058	1057		
CONECT	1059	1060	1057	1068

CONNECT 1060 1061 1059
CONNECT 1061 1062 1060
CONNECT 1062 1063 1061
CONNECT 1063 1064 1062
CONNECT 1064 1066 1067 1065 1063
CONNECT 1064
CONNECT 1065 1064
CONNECT 1066 1064
CONNECT 1067 1064
CONNECT 1068 1070 1059 1069
CONNECT 1069 1068
CONNECT 1070 1071 1072 1068
CONNECT 1071 1070
CONNECT 1072 1073 1070 1077
CONNECT 1073 1074 1075 1072
CONNECT 1074 1076 1073
CONNECT 1075 1073
CONNECT 1076 1074
CONNECT 1077 1072 1078 1079
CONNECT 1078 1077
CONNECT 1079 1077 1080 1081
CONNECT 1080 1079
CONNECT 1081 1079 1082 1094
CONNECT 1082 1081 1083
CONNECT 1083 1082 1084
CONNECT 1084 1085 1083
CONNECT 1085 1086 1087 1084
CONNECT 1086 1085
CONNECT 1087 1091 1085 1088
CONNECT 1088 1087 1090 1089
CONNECT 1089 1088
CONNECT 1090 1088
CONNECT 1091 1092 1093 1087
CONNECT 1092 1091
CONNECT 1093 1091
CONNECT 1094 1081 1096 1095
CONNECT 1095 1094
CONNECT 1096 1097 1094 1098
CONNECT 1097 1096
CONNECT 1098 1096 1107 1099
CONNECT 1099 1100 1098
CONNECT 1100 1101 1099
CONNECT 1101 1102 1100
CONNECT 1102 1103 1101
CONNECT 1103 1104 1102 1105 1106
CONNECT 1103
CONNECT 1104 1103
CONNECT 1105 1103
CONNECT 1106 1103
CONNECT 1107 1109 1098 1108
CONNECT 1108 1107
CONNECT 1109 1110 1111 1107
CONNECT 1110 1109
CONNECT 1111 1112 1109 1119
CONNECT 1112 1113 1111
CONNECT 1113 1114 1112
CONNECT 1114 1115 1116 1113
CONNECT 1115 1114
CONNECT 1116 1117 1114 1118
CONNECT 1117 1116
CONNECT 1118 1116
CONNECT 1119 1111 1121 1120
CONNECT 1120 1119
CONNECT 1121 1122 1119 1123
CONNECT 1122 1121
CONNECT 1123 1124 1121 1131
CONNECT 1124 1125 1123
CONNECT 1125 1126 1124 1127
CONNECT 1126 1128 1125
CONNECT 1127 1125 1129
CONNECT 1128 1126 1130
CONNECT 1129 1130 1127
CONNECT 1130 1128 1129
CONNECT 1131 1123 1132 1133

CONECT 1132 1131
CONECT 1133 1131 1134 1135
CONECT 1134 1133
CONECT 1135 1133 1136 1143
CONECT 1136 1135 1137
CONECT 1137 1138 1136 1139
CONECT 1138 1140 1137
CONECT 1139 1137 1141
CONECT 1140 1138 1142
CONECT 1141 1142 1139
CONECT 1142 1140 1141
CONECT 1143 1135 1145 1144
CONECT 1144 1143
CONECT 1145 1146 1143 1147
CONECT 1146 1145
CONECT 1147 1145 1156 1151
CONECT 1148 1150 1155 1149
CONECT 1149 1148
CONECT 1150 1154 1151 1148
CONECT 1151 1150 1147
CONECT 1152 1154 1153 1155
CONECT 1153 1152
CONECT 1154 1150 1152
CONECT 1155 1152 1148
CONECT 1156 1158 1147 1157
CONECT 1157 1156
CONECT 1158 1159 1160 1156
CONECT 1159 1158
CONECT 1160 1161 1158 1162
CONECT 1161 1160
CONECT 1162 1160 1164 1163
CONECT 1163 1162
CONECT 1164 1162 1165 1166
CONECT 1165 1164
CONECT 1166 1164 1167 1171
CONECT 1167 1168 1166 1169
CONECT 1168 1170 1167
CONECT 1169 1167
CONECT 1170 1168
CONECT 1171 1166 1172 1173
CONECT 1172 1171
CONECT 1173 1171 1174 1175
CONECT 1174 1173
CONECT 1175 1173 1180 1176
CONECT 1176 1175 1177
CONECT 1177 1176 1178
CONECT 1178 1177 1179
CONECT 1179 1178
CONECT 1180 1182 1175 1181
CONECT 1181 1180
CONECT 1182 1183 1184 1180
CONECT 1183 1182
CONECT 1184 1185 1197 1182
CONECT 1185 1186 1184
CONECT 1186 1185 1187
CONECT 1187 1186 1188
CONECT 1188 1187 1189 1190
CONECT 1189 1188
CONECT 1190 1188 1191 1194
CONECT 1191 1193 1192 1190
CONECT 1192 1191
CONECT 1193 1191
CONECT 1194 1190 1196 1195
CONECT 1195 1194
CONECT 1196 1194
CONECT 1197 1199 1198 1184
CONECT 1198 1197
CONECT 1199 1201 1200 1197
CONECT 1200 1199
CONECT 1201 1202 1199 1209
CONECT 1202 1203 1201
CONECT 1203 1204 1202
CONECT 1204 1206 1205 1203
CONECT 1205 1204

CONECT 1206 1207 1208 1204
CONECT 1207 1206
CONECT 1208 1206
CONECT 1209 1201 1210 1211
CONECT 1210 1209
CONECT 1211 1209 1212 1213
CONECT 1212 1211
CONECT 1213 1211 1219 1214
CONECT 1214 1213 1215
CONECT 1215 1214 1216
CONECT 1216 1218 1217 1215
CONECT 1217 1216
CONECT 1218 1216
CONECT 1219 1220 1213 1221
CONECT 1220 1219
CONECT 1221 1219 1222 1223
CONECT 1222 1221
CONECT 1223 1228 1221 1224
CONECT 1224 1226 1223 1225
CONECT 1225 1224 1227
CONECT 1226 1224
CONECT 1227 1225
CONECT 1228 1230 1229 1223
CONECT 1229 1228
CONECT 1230 1232 1231 1228
CONECT 1231 1230
CONECT 1232 1233 1230
CONECT 1233 1234 1232 1235
CONECT 1234 1233
CONECT 1235 1233 1236 1237
CONECT 1236 1235
CONECT 1237 1235 1238 1249
CONECT 1238 1237 1239
CONECT 1239 1238 1241 1240
CONECT 1240 1239 1245 1244
CONECT 1241 1239 1242
CONECT 1242 1241 1243 1244
CONECT 1243 1242
CONECT 1244 1242 1240 1246
CONECT 1245 1240 1247
CONECT 1246 1244 1248
CONECT 1247 1245 1248
CONECT 1248 1247 1246
CONECT 1249 1237 1250 1251
CONECT 1250 1249
CONECT 1251 1249 1252 1253
CONECT 1252 1251
CONECT 1253 1261 1251 1254
CONECT 1254 1253 1255
CONECT 1255 1254 1257 1256
CONECT 1256 1255 1258
CONECT 1257 1255 1259
CONECT 1258 1256 1260
CONECT 1259 1257 1260
CONECT 1260 1259 1258
CONECT 1261 1263 1262 1253
CONECT 1262 1261
CONECT 1263 1265 1264 1261
CONECT 1264 1263
CONECT 1265 1266 1270 1263
CONECT 1266 1267 1265
CONECT 1267 1266 1269 1268
CONECT 1268 1267
CONECT 1269 1267
CONECT 1270 1272 1271 1265
CONECT 1271 1270
CONECT 1272 1274 1273 1270
CONECT 1273 1272
CONECT 1274 1275 1278 1272
CONECT 1275 1276 1277 1274
CONECT 1276 1275
CONECT 1277 1275
CONECT 1278 1280 1274 1279
CONECT 1279 1278

CONECT 1280 1281 1282 1278
CONECT 1281 1280
CONECT 1282 1280 1286 1291
CONECT 1283 1290 1284 1285
CONECT 1284 1283
CONECT 1285 1283 1289 1286
CONECT 1286 1285 1282
CONECT 1287 1290 1288 1289
CONECT 1288 1287
CONECT 1289 1287 1285
CONECT 1290 1283 1287
CONECT 1291 1282 1293 1292
CONECT 1292 1291
CONECT 1293 1294 1291 1295
CONECT 1294 1293
CONECT 1295 1293 1296 1300
CONECT 1296 1297 1295
CONECT 1297 1299 1298 1296
CONECT 1298 1297
CONECT 1299 1297
CONECT 1300 1295 1302 1301
CONECT 1301 1300
CONECT 1302 1303 1300 1304
CONECT 1303 1302
CONECT 1304 1302 1308 1305
CONECT 1305 1304 1307 1306
CONECT 1306 1305
CONECT 1307 1305
CONECT 1308 1304 1309 1310
CONECT 1309 1308
CONECT 1310 1308 1312 1311
CONECT 1311 1310
CONECT 1312 1313 1310
CONECT 1313 1315 1314 1312
CONECT 1314 1313
CONECT 1315 1317 1316 1313
CONECT 1316 1315
CONECT 1317 1318 1323 1315
CONECT 1318 1319 1317
CONECT 1319 1320 1318
CONECT 1320 1322 1321 1319
CONECT 1321 1320
CONECT 1322 1320
CONECT 1323 1324 1317 1325
CONECT 1324 1323
CONECT 1325 1323 1327 1326
CONECT 1326 1325
CONECT 1327 1332 1325 1328
CONECT 1328 1327 1329
CONECT 1329 1330 1328 1331
CONECT 1330 1329
CONECT 1331 1329
CONECT 1332 1333 1327 1334
CONECT 1333 1332
CONECT 1334 1332 1336 1335
CONECT 1335 1334
CONECT 1336 1343 1334 1337
CONECT 1337 1336 1338
CONECT 1338 1337 1340 1339
CONECT 1339 1338
CONECT 1340 1341 1338 1342
CONECT 1341 1340
CONECT 1342 1340
CONECT 1343 1344 1345 1336
CONECT 1344 1343
CONECT 1345 1347 1343 1346
CONECT 1346 1345
CONECT 1347 1352 1348 1345
CONECT 1348 1351 1347 1349
CONECT 1349 1348 1350
CONECT 1350 1349
CONECT 1351 1348
CONECT 1352 1353 1354 1347
CONECT 1353 1352

CONECT 1354 1356 1352 1355
CONECT 1355 1354
CONECT 1356 1357 1369 1354
CONECT 1357 1358 1356
CONECT 1358 1359 1357
CONECT 1359 1358 1360
CONECT 1360 1362 1359 1361
CONECT 1361 1360
CONECT 1362 1363 1366 1360
CONECT 1363 1364 1365 1362
CONECT 1364 1363
CONECT 1365 1363
CONECT 1366 1367 1362 1368
CONECT 1367 1366
CONECT 1368 1366
CONECT 1369 1370 1356 1371
CONECT 1370 1369
CONECT 1371 1369 1373 1372
CONECT 1372 1371
CONECT 1373 1378 1371 1374
CONECT 1374 1373 1375
CONECT 1375 1377 1374 1376
CONECT 1376 1375
CONECT 1377 1375
CONECT 1378 1379 1373 1380
CONECT 1379 1378
CONECT 1380 1378 1382 1381
CONECT 1381 1380
CONECT 1382 1387 1380 1383
CONECT 1383 1382 1384 1386
CONECT 1384 1383 1385
CONECT 1385 1384
CONECT 1386 1383
CONECT 1387 1388 1389 1382
CONECT 1388 1387
CONECT 1389 1391 1387 1390
CONECT 1390 1389
CONECT 1391 1396 1392 1389
CONECT 1392 1393 1391
CONECT 1393 1394 1395 1392
CONECT 1394 1393
CONECT 1395 1393
CONECT 1396 1397 1398 1391
CONECT 1397 1396
CONECT 1398 1400 1396 1399
CONECT 1399 1398
CONECT 1400 1405 1401 1398
CONECT 1401 1400 1402
CONECT 1402 1404 1401 1403
CONECT 1403 1402
CONECT 1404 1402
CONECT 1405 1406 1400 1407
CONECT 1406 1405
CONECT 1407 1405 1409 1408
CONECT 1408 1407
CONECT 1409 1413 1407 1410
CONECT 1410 1409 1411 1412
CONECT 1411 1410
CONECT 1412 1410
CONECT 1413 1414 1415 1409
CONECT 1414 1413
CONECT 1415 1413 1417 1416
CONECT 1416 1415
CONECT 1417 1421 1415 1418
CONECT 1418 1417 1419
CONECT 1419 1418 1420
CONECT 1420 1419
CONECT 1421 1422 1423 1417
CONECT 1422 1421
CONECT 1423 1425 1421 1424
CONECT 1424 1423
CONECT 1425 1434 1426 1423
CONECT 1426 1425 1427
CONECT 1427 1426 1428

CONNECT 1428 1427 1429
CONNECT 1429 1428 1430
CONNECT 1430 1433 1432 1431 1429
CONNECT 1430
CONNECT 1431 1430
CONNECT 1432 1430
CONNECT 1433 1430
CONNECT 1434 1435 1436 1425
CONNECT 1435 1434
CONNECT 1436 1438 1434 1437
CONNECT 1437 1436
CONNECT 1438 1443 1439 1436
CONNECT 1439 1441 1438 1440
CONNECT 1440 1439 1442
CONNECT 1441 1439
CONNECT 1442 1440
CONNECT 1443 1444 1438 1445
CONNECT 1444 1443
CONNECT 1445 1443 1447 1446
CONNECT 1446 1445
CONNECT 1447 1454 1445 1448
CONNECT 1448 1447 1449
CONNECT 1449 1450 1448 1451
CONNECT 1450 1449
CONNECT 1451 1449 1453 1452
CONNECT 1452 1451
CONNECT 1453 1451
CONNECT 1454 1455 1456 1447
CONNECT 1455 1454
CONNECT 1456 1458 1454 1457
CONNECT 1457 1456
CONNECT 1458 1464 1459 1456
CONNECT 1459 1458 1460
CONNECT 1460 1459 1461
CONNECT 1461 1462 1460 1463
CONNECT 1462 1461
CONNECT 1463 1461
CONNECT 1464 1465 1466 1458
CONNECT 1465 1464
CONNECT 1466 1468 1464 1467
CONNECT 1467 1466
CONNECT 1468 1469 1466
CONNECT 1469 1470 1471 1468
CONNECT 1470 1469
CONNECT 1471 1473 1469 1472
CONNECT 1472 1471
CONNECT 1473 1478 1471 1474
CONNECT 1474 1476 1473 1475
CONNECT 1475 1477 1474
CONNECT 1476 1474
CONNECT 1477 1475
CONNECT 1478 1479 1473 1480
CONNECT 1479 1478
CONNECT 1480 1478 1482 1481
CONNECT 1481 1480
CONNECT 1482 1483 1480
CONNECT 1483 1484 1485 1482
CONNECT 1484 1483
CONNECT 1485 1487 1483 1486
CONNECT 1486 1485
CONNECT 1487 1492 1488 1485
CONNECT 1488 1487 1489
CONNECT 1489 1490 1488 1491
CONNECT 1490 1489
CONNECT 1491 1489
CONNECT 1492 1493 1494 1487
CONNECT 1493 1492
CONNECT 1494 1496 1492 1495
CONNECT 1495 1494
CONNECT 1496 1505 1497 1494
CONNECT 1497 1498 1496
CONNECT 1498 1499 1497
CONNECT 1499 1500 1498
CONNECT 1500 1501 1499

CONNECT 1501 1502 1500 1504 1503
CONNECT 1501
CONNECT 1502 1501
CONNECT 1503 1501
CONNECT 1504 1501
CONNECT 1505 1506 1507 1496
CONNECT 1506 1505
CONNECT 1507 1509 1505 1508
CONNECT 1508 1507
CONNECT 1509 1514 1510 1507
CONNECT 1510 1509 1511 1512
CONNECT 1511 1513 1510
CONNECT 1512 1510
CONNECT 1513 1511
CONNECT 1514 1515 1509 1516
CONNECT 1515 1514
CONNECT 1516 1514 1518 1517
CONNECT 1517 1516
CONNECT 1518 1519 1516
CONNECT 1519 1520 1521 1518
CONNECT 1520 1519
CONNECT 1521 1523 1519 1522
CONNECT 1522 1521
CONNECT 1523 1528 1524 1521
CONNECT 1524 1525 1523
CONNECT 1525 1526 1524
CONNECT 1526 1527 1525
CONNECT 1527 1526
CONNECT 1528 1529 1530 1523
CONNECT 1529 1528
CONNECT 1530 1532 1528 1531
CONNECT 1531 1530
CONNECT 1532 1540 1533 1530
CONNECT 1533 1534 1532
CONNECT 1534 1535 1536 1533
CONNECT 1535 1537 1534
CONNECT 1536 1538 1534
CONNECT 1537 1539 1535
CONNECT 1538 1539 1536
CONNECT 1539 1537 1538
CONNECT 1540 1541 1532 1542
CONNECT 1541 1540
CONNECT 1542 1540 1544 1543
CONNECT 1543 1542
CONNECT 1544 1552 1542 1545
CONNECT 1545 1544 1546
CONNECT 1546 1547 1545 1548
CONNECT 1547 1549 1546
CONNECT 1548 1546 1550
CONNECT 1549 1547 1551
CONNECT 1550 1551 1548
CONNECT 1551 1549 1550
CONNECT 1552 1553 1554 1544
CONNECT 1553 1552
CONNECT 1554 1556 1552 1555
CONNECT 1555 1554
CONNECT 1556 1564 1554 1557
CONNECT 1557 1556 1558
CONNECT 1558 1559 1557
CONNECT 1559 1560 1558 1561
CONNECT 1560 1559
CONNECT 1561 1559 1562 1563
CONNECT 1562 1561
CONNECT 1563 1561
CONNECT 1564 1565 1566 1556
CONNECT 1565 1564
CONNECT 1566 1568 1564 1567
CONNECT 1567 1566
CONNECT 1568 1572 1569 1566
CONNECT 1569 1568 1570
CONNECT 1570 1569 1571
CONNECT 1571 1570
CONNECT 1572 1573 1574 1568
CONNECT 1573 1572

CONECT 1574 1576 1572 1575
CONECT 1575 1574
CONECT 1576 1581 1577 1574
CONECT 1577 1576 1578
CONECT 1578 1579 1577
CONECT 1579 1580 1578
CONECT 1580 1579
CONECT 1581 1582 1576 1583
CONECT 1582 1581
CONECT 1583 1581 1585 1584
CONECT 1584 1583
CONECT 1585 1587 1583 1586
CONECT 1586 1585
CONECT 1587 1588 1589 1585
CONECT 1588 1587
CONECT 1589 1591 1587 1590
CONECT 1590 1589
CONECT 1591 1596 1592 1589
CONECT 1592 1595 1591 1593
CONECT 1593 1592 1594
CONECT 1594 1593
CONECT 1595 1592
CONECT 1596 1597 1598 1591
CONECT 1597 1596
CONECT 1598 1600 1596 1599
CONECT 1599 1598
CONECT 1600 1608 1601 1598
CONECT 1601 1602 1600
CONECT 1602 1603 1604 1601
CONECT 1603 1605 1602
CONECT 1604 1606 1602
CONECT 1605 1607 1603
CONECT 1606 1607 1604
CONECT 1607 1605 1606
CONECT 1608 1609 1610 1600
CONECT 1609 1608
CONECT 1610 1612 1608 1611
CONECT 1611 1610
CONECT 1612 1620 1613 1610
CONECT 1613 1612 1614
CONECT 1614 1615 1613 1616
CONECT 1615 1617 1614
CONECT 1616 1614 1618
CONECT 1617 1615 1619
CONECT 1618 1619 1616
CONECT 1619 1617 1618
CONECT 1620 1621 1612 1622
CONECT 1621 1620
CONECT 1622 1620 1624 1623
CONECT 1623 1622
CONECT 1624 1629 1622 1625
CONECT 1625 1624 1626 1628
CONECT 1626 1627 1625
CONECT 1627 1626
CONECT 1628 1625
CONECT 1629 1630 1631 1624
CONECT 1630 1629
CONECT 1631 1633 1629 1632
CONECT 1632 1631
CONECT 1633 1634 1631
CONECT 1634 1635 1636 1633
CONECT 1635 1634
CONECT 1636 1638 1634 1637
CONECT 1637 1636
CONECT 1638 1646 1639 1636
CONECT 1639 1640 1638
CONECT 1640 1641 1642 1639
CONECT 1641 1643 1640
CONECT 1642 1644 1640
CONECT 1643 1645 1641
CONECT 1644 1645 1642
CONECT 1645 1643 1644
CONECT 1646 1647 1638 1648
CONECT 1647 1646

CONECT 1648 1646 1650 1649
CONECT 1649 1648
CONECT 1650 1655 1648 1651
CONECT 1651 1650 1652 1653
CONECT 1652 1654 1651
CONECT 1653 1651
CONECT 1654 1652
CONECT 1655 1656 1650 1657
CONECT 1656 1655
CONECT 1657 1655 1659 1658
CONECT 1658 1657
CONECT 1659 1663 1657 1660
CONECT 1660 1659 1661 1662
CONECT 1661 1660
CONECT 1662 1660
CONECT 1663 1664 1665 1659
CONECT 1664 1663
CONECT 1665 1667 1663 1666
CONECT 1666 1665
CONECT 1667 1668 1665
CONECT 1668 1669 1670 1667
CONECT 1669 1668
CONECT 1670 1672 1668 1671
CONECT 1671 1670
CONECT 1672 1680 1673 1670
CONECT 1673 1674 1672
CONECT 1674 1675 1676 1673
CONECT 1675 1677 1674
CONECT 1676 1678 1674
CONECT 1677 1679 1675
CONECT 1678 1679 1676
CONECT 1679 1677 1678
CONECT 1680 1681 1672 1682
CONECT 1681 1680
CONECT 1682 1680 1684 1683
CONECT 1683 1682
CONECT 1684 1689 1682 1685
CONECT 1685 1684 1688 1686
CONECT 1686 1685 1687
CONECT 1687 1686
CONECT 1688 1685
CONECT 1689 1690 1684 1691
CONECT 1690 1689
CONECT 1691 1689 1693 1692
CONECT 1692 1691
CONECT 1693 1706 1691 1694
CONECT 1694 1693 1695
CONECT 1695 1694 1696
CONECT 1696 1695 1697
CONECT 1697 1699 1696 1698
CONECT 1698 1697
CONECT 1699 1700 1703 1697
CONECT 1700 1701 1702 1699
CONECT 1701 1700
CONECT 1702 1700
CONECT 1703 1704 1699 1705
CONECT 1704 1703
CONECT 1705 1703
CONECT 1706 1708 1693 1707
CONECT 1707 1706
CONECT 1708 1710 1709 1706
CONECT 1709 1708
CONECT 1710 1711 1708
CONECT 1711 1712 1713 1710
CONECT 1712 1711
CONECT 1713 1715 1711 1714
CONECT 1714 1713
CONECT 1715 1716 1727 1713
CONECT 1716 1717 1715
CONECT 1717 1718 1716 1719
CONECT 1718 1723 1717 1722
CONECT 1719 1717 1720
CONECT 1720 1722 1719 1721
CONECT 1721 1720

CONNECT 1722 1718 1724 1720
CONNECT 1723 1725 1718
CONNECT 1724 1726 1722
CONNECT 1725 1723 1726
CONNECT 1726 1725 1724
CONNECT 1727 1728 1715 1729
CONNECT 1728 1727
CONNECT 1729 1727 1731 1730
CONNECT 1730 1729
CONNECT 1731 1732 1729 1740
CONNECT 1732 1733 1731
CONNECT 1733 1734 1732
CONNECT 1734 1735 1733
CONNECT 1735 1736 1734
CONNECT 1736 1735 1737 1739 1738
CONNECT 1736
CONNECT 1737 1736
CONNECT 1738 1736
CONNECT 1739 1736
CONNECT 1740 1731 1741 1742
CONNECT 1741 1740
CONNECT 1742 1740 1743 1744
CONNECT 1743 1742
CONNECT 1744 1742 1745 1749
CONNECT 1745 1744 1746
CONNECT 1746 1745 1748 1747
CONNECT 1747 1746
CONNECT 1748 1746
CONNECT 1749 1744 1751 1750
CONNECT 1750 1749
CONNECT 1751 1752 1749 1753
CONNECT 1752 1751
CONNECT 1753 1751 1758 1754
CONNECT 1754 1757 1753 1755
CONNECT 1755 1754 1756
CONNECT 1756 1755
CONNECT 1757 1754
CONNECT 1758 1760 1753 1759
CONNECT 1759 1758
CONNECT 1760 1761 1762 1758
CONNECT 1761 1760
CONNECT 1762 1763 1767 1760
CONNECT 1763 1764 1762
CONNECT 1764 1763 1766 1765
CONNECT 1765 1764
CONNECT 1766 1764
CONNECT 1767 1769 1762 1768
CONNECT 1768 1767
CONNECT 1769 1770 1771 1767
CONNECT 1770 1769
CONNECT 1771 1772 1769 1775
CONNECT 1772 1774 1771 1773
CONNECT 1773 1772
CONNECT 1774 1772
CONNECT 1775 1771 1776 1777
CONNECT 1776 1775
CONNECT 1777 1775 1778 1779
CONNECT 1778 1777
CONNECT 1779 1777 1784 1780
CONNECT 1780 1779 1781 1782
CONNECT 1781 1783 1780
CONNECT 1782 1780
CONNECT 1783 1781
CONNECT 1784 1786 1779 1785
CONNECT 1785 1784
CONNECT 1786 1787 1788 1784
CONNECT 1787 1786
CONNECT 1788 1789 1786 1793
CONNECT 1789 1790 1788
CONNECT 1790 1791 1789 1792
CONNECT 1791 1790
CONNECT 1792 1790
CONNECT 1793 1795 1788 1794
CONNECT 1794 1793

CONECT 1795 1796 1797 1793
CONECT 1796 1795
CONECT 1797 1798 1795 1799
CONECT 1798 1797
CONECT 1799 1797 1801 1800
CONECT 1800 1799
CONECT 1801 1802 1799 1803
CONECT 1802 1801
CONECT 1803 1801 1804 1808
CONECT 1804 1806 1805 1803
CONECT 1805 1804 1807
CONECT 1806 1804
CONECT 1807 1805
CONECT 1808 1803 1810 1809
CONECT 1809 1808
CONECT 1810 1811 1808 1812
CONECT 1811 1810
CONECT 1812 1810 1813 1816
CONECT 1813 1814 1812
CONECT 1814 1815 1813
CONECT 1815 1814
CONECT 1816 1812 1818 1817
CONECT 1817 1816
CONECT 1818 1820 1816 1819
CONECT 1819 1818 1821 1823
CONECT 1820 1818 1822
CONECT 1821 1822 1819
CONECT 1822 1820 1821
CONECT 1823 1825 1819 1824
CONECT 1824 1823
CONECT 1825 1826 1827 1823
CONECT 1826 1825
CONECT 1827 1828 1825 1831
CONECT 1828 1830 1829 1827
CONECT 1829 1828
CONECT 1830 1828
CONECT 1831 1827 1833 1832
CONECT 1832 1831
CONECT 1833 1834 1831 1835
CONECT 1834 1833
CONECT 1835 1833 1836 1840
CONECT 1836 1837 1835
CONECT 1837 1839 1838 1836
CONECT 1838 1837
CONECT 1839 1837
CONECT 1840 1835 1842 1841
CONECT 1841 1840
CONECT 1842 1843 1840 1844
CONECT 1843 1842
CONECT 1844 1842 1845
CONECT 1845 1847 1844 1846
CONECT 1846 1845
CONECT 1847 1848 1849 1845
CONECT 1848 1847
CONECT 1849 1850 1847 1854
CONECT 1850 1851 1849
CONECT 1851 1850 1852 1853
CONECT 1852 1851
CONECT 1853 1851
CONECT 1854 1849 1856 1855
CONECT 1855 1854
CONECT 1856 1857 1858 1854
CONECT 1857 1856
CONECT 1858 1859 1856 1862
CONECT 1859 1860 1858
CONECT 1860 1861 1859
CONECT 1861 1860
CONECT 1862 1858 1864 1863
CONECT 1863 1862
CONECT 1864 1865 1862 1866
CONECT 1865 1864
CONECT 1866 1864 1867 1868
CONECT 1867 1866
CONECT 1868 1866 1870 1869

CONNECT 1869 1868
CONNECT 1870 1871 1868 1872
CONNECT 1871 1870
CONNECT 1872 1870 1873 1874
CONNECT 1873 1872
CONNECT 1874 1876 1872 1875
CONNECT 1875 1874
CONNECT 1876 1877 1878 1874
CONNECT 1877 1876
CONNECT 1878 1879 1876 1882
CONNECT 1879 1881 1880 1878
CONNECT 1880 1879
CONNECT 1881 1879
CONNECT 1882 1878 1884 1883
CONNECT 1883 1882
CONNECT 1884 1885 1882 1886
CONNECT 1885 1884
CONNECT 1886 1884 1887 1898
CONNECT 1887 1888 1886
CONNECT 1888 1890 1887 1889
CONNECT 1889 1888 1893 1894
CONNECT 1890 1891 1888
CONNECT 1891 1890 1892 1893
CONNECT 1892 1891
CONNECT 1893 1891 1889 1895
CONNECT 1894 1889 1896
CONNECT 1895 1893 1897
CONNECT 1896 1894 1897
CONNECT 1897 1895 1896
CONNECT 1898 1886 1900 1899
CONNECT 1899 1898
CONNECT 1900 1901 1898 1902
CONNECT 1901 1900
CONNECT 1902 1900 1903 1904
CONNECT 1903 1902
CONNECT 1904 1902 1906 1905
CONNECT 1905 1904
CONNECT 1906 1907 1904 1908
CONNECT 1907 1906
CONNECT 1908 1906 1909 1917
CONNECT 1909 1910 1908
CONNECT 1910 1909 1911
CONNECT 1911 1910 1912
CONNECT 1912 1911 1913
CONNECT 1913 1912 1914 1915 1916
CONNECT 1913
CONNECT 1914 1913
CONNECT 1915 1913
CONNECT 1916 1913
CONNECT 1917 1919 1908 1918
CONNECT 1918 1917
CONNECT 1919 1920 1921 1917
CONNECT 1920 1919
CONNECT 1921 1922 1919 1926
CONNECT 1922 1924 1923 1921
CONNECT 1923 1925 1922
CONNECT 1924 1922
CONNECT 1925 1923
CONNECT 1926 1921 1928 1927
CONNECT 1927 1926
CONNECT 1928 1929 1926 1930
CONNECT 1929 1928
CONNECT 1930 1928 1931 1935
CONNECT 1931 1930 1932
CONNECT 1932 1931 1934 1933
CONNECT 1933 1932
CONNECT 1934 1932
CONNECT 1935 1930 1937 1936
CONNECT 1936 1935
CONNECT 1937 1938 1935 1939
CONNECT 1938 1937
CONNECT 1939 1937 1940 1943
CONNECT 1940 1941 1939
CONNECT 1941 1942 1940

CONNECT 1942 1941
CONNECT 1943 1945 1939 1944
CONNECT 1944 1943
CONNECT 1945 1946 1947 1943
CONNECT 1946 1945
CONNECT 1947 1948 1945 1951
CONNECT 1948 1949 1947
CONNECT 1949 1950 1948
CONNECT 1950 1949
CONNECT 1951 1953 1947 1952
CONNECT 1952 1951
CONNECT 1953 1954 1955 1951
CONNECT 1954 1953
CONNECT 1955 1956 1953 1963
CONNECT 1956 1957 1955
CONNECT 1957 1958 1956 1959
CONNECT 1958 1960 1957
CONNECT 1959 1957 1961
CONNECT 1960 1958 1962
CONNECT 1961 1962 1959
CONNECT 1962 1960 1961
CONNECT 1963 1955 1965 1964
CONNECT 1964 1963
CONNECT 1965 1966 1963 1967
CONNECT 1966 1965
CONNECT 1967 1965 1968 1972
CONNECT 1968 1967 1971 1969
CONNECT 1969 1968 1970
CONNECT 1970 1969
CONNECT 1971 1968
CONNECT 1972 1967 1974 1973
CONNECT 1973 1972
CONNECT 1974 1975 1972 1976
CONNECT 1975 1974
CONNECT 1976 1974 1977 1981
CONNECT 1977 1976 1978
CONNECT 1978 1977 1980 1979
CONNECT 1979 1978
CONNECT 1980 1978
CONNECT 1981 1983 1976 1982
CONNECT 1982 1981
CONNECT 1983 1984 1985 1981
CONNECT 1984 1983
CONNECT 1985 1986 1983 1994
CONNECT 1986 1987 1985
CONNECT 1987 1988 1986
CONNECT 1988 1989 1987
CONNECT 1989 1988 1990
CONNECT 1990 1989 1993 1991 1992
CONNECT 1990
CONNECT 1991 1990
CONNECT 1992 1990
CONNECT 1993 1990
CONNECT 1994 1985 1996 1995
CONNECT 1995 1994
CONNECT 1996 1997 1994 1998
CONNECT 1997 1996
CONNECT 1998 1996 1999 2004
CONNECT 1999 2000 1998
CONNECT 2000 2001 1999
CONNECT 2001 2000 2003 2002
CONNECT 2002 2001
CONNECT 2003 2001
CONNECT 2004 1998 2006 2005
CONNECT 2005 2004
CONNECT 2006 2007 2004 2008
CONNECT 2007 2006
CONNECT 2008 2006 2009 2013
CONNECT 2009 2010 2008
CONNECT 2010 2011 2009 2012
CONNECT 2011 2010
CONNECT 2012 2010
CONNECT 2013 2015 2008 2014
CONNECT 2014 2013

CONECT 2015 2016 2017 2013
CONECT 2016 2015
CONECT 2017 2018 2015 2022
CONECT 2018 2019 2017
CONECT 2019 2018 2020 2021
CONECT 2020 2019
CONECT 2021 2019
CONECT 2022 2024 2017 2023
CONECT 2023 2022
CONECT 2024 2025 2026 2022
CONECT 2025 2024
CONECT 2026 2027 2024 2028
CONECT 2027 2026
CONECT 2028 2026 2030 2029
CONECT 2029 2028
CONECT 2030 2031 2028 2032
CONECT 2031 2030
CONECT 2032 2030 2033 2042
CONECT 2033 2032 2034
CONECT 2034 2033 2035 2036
CONECT 2035 2034 2037
CONECT 2036 2034 2038
CONECT 2037 2035 2039
CONECT 2038 2036 2039
CONECT 2039 2037 2038 2040
CONECT 2040 2039 2041
CONECT 2041 2040
CONECT 2042 2032 2044 2043
CONECT 2043 2042
CONECT 2044 2045 2042 2046
CONECT 2045 2044
CONECT 2046 2044 2047 2048
CONECT 2047 2046
CONECT 2048 2050 2046 2049
CONECT 2049 2048
CONECT 2050 2051 2052 2048
CONECT 2051 2050
CONECT 2052 2053 2050 2061
CONECT 2053 2054 2052
CONECT 2054 2055 2053
CONECT 2055 2054 2056
CONECT 2056 2055 2057
CONECT 2057 2056 2059 2060 2058
CONECT 2057
CONECT 2058 2057
CONECT 2059 2057
CONECT 2060 2057
CONECT 2061 2052 2063 2062
CONECT 2062 2061
CONECT 2063 2064 2061 2065
CONECT 2064 2063
CONECT 2065 2066 2063 2067
CONECT 2066 2065
CONECT 2067 2065 2069 2068
CONECT 2068 2067
CONECT 2069 2070 2067 2071
CONECT 2070 2069
CONECT 2071 2069 2072
CONECT 2072 2071 2074 2073
CONECT 2073 2072
CONECT 2074 2075 2072 2076
CONECT 2075 2074
CONECT 2076 2074 2077 2078
CONECT 2077 2076
CONECT 2078 2080 2076 2079
CONECT 2079 2078
CONECT 2080 2081 2082 2078
CONECT 2081 2080
CONECT 2082 2083 2080 2086
CONECT 2083 2085 2084 2082
CONECT 2084 2083
CONECT 2085 2083
CONECT 2086 2082 2088 2087
CONECT 2087 2086

CONECT	2088	2089	2086	2090
CONECT	2089	2088		
CONECT	2090	2088	2091	2092
CONECT	2091	2090		
CONECT	2092	2090	2094	2093
CONECT	2093	2092		
CONECT	2094	2095	2092	2096
CONECT	2095	2094		
CONECT	2096	2094	2097	2102
CONECT	2097	2096	2098	
CONECT	2098	2097	2099	
CONECT	2099	2098	2100	2101
CONECT	2100	2099		
CONECT	2101	2099		
CONECT	2102	2096	2104	2103
CONECT	2103	2102		
CONECT	2104	2105	2102	2106
CONECT	2105	2104		
CONECT	2106	2104	2107	2112
CONECT	2107	2108	2106	
CONECT	2108	2109	2107	
CONECT	2109	2110	2111	2108
CONECT	2110	2109		
CONECT	2111	2109		
CONECT	2112	2106	2113	2114
CONECT	2113	2112		
CONECT	2114	2112	2115	2116
CONECT	2115	2114		
CONECT	2116	2114	2120	2117
CONECT	2117	2116	2119	2118
CONECT	2118	2117		
CONECT	2119	2117		
CONECT	2120	2116	2121	2122
CONECT	2121	2120		
CONECT	2122	2120	2123	2124
CONECT	2123	2122		
CONECT	2124	2122	2125	2129
CONECT	2125	2126	2124	
CONECT	2126	2127	2128	2125
CONECT	2127	2126		
CONECT	2128	2126		
CONECT	2129	2124	2131	2130
CONECT	2130	2129		
CONECT	2131	2132	2129	2133
CONECT	2132	2131		
CONECT	2133	2131	2134	2135
CONECT	2134	2133		
CONECT	2135	2136	2133	2137
CONECT	2136	2135		
CONECT	2137	2135	2138	2139
CONECT	2138	2137		
CONECT	2139	2140	2137	2141
CONECT	2140	2139		
CONECT	2141	2139	2143	2142
CONECT	2142	2141		
CONECT	2143	2141	2144	2145
CONECT	2144	2143		
CONECT	2145	2143	2146	2150
CONECT	2146	2147	2145	2148
CONECT	2147	2146	2149	
CONECT	2148	2146		
CONECT	2149	2147		
CONECT	2150	2145	2151	2152
CONECT	2151	2150		
CONECT	2152	2150	2153	2154
CONECT	2153	2152		
CONECT	2154	2152	2167	2155
CONECT	2155	2154	2156	
CONECT	2156	2155	2157	
CONECT	2157	2156	2158	
CONECT	2158	2159	2157	2160
CONECT	2159	2158		
CONECT	2160	2158	2164	2161
CONECT	2161	2160	2163	2162

CONECT 2162 2161
CONECT 2163 2161
CONECT 2164 2166 2160 2165
CONECT 2165 2164
CONECT 2166 2164
CONECT 2167 2169 2168 2154
CONECT 2168 2167
CONECT 2169 2171 2170 2167
CONECT 2170 2169
CONECT 2171 2176 2172 2169
CONECT 2172 2175 2171 2173
CONECT 2173 2172 2174
CONECT 2174 2173
CONECT 2175 2172
CONECT 2176 2178 2177 2171
CONECT 2177 2176
CONECT 2178 2180 2179 2176
CONECT 2179 2178
CONECT 2180 2181 2184 2178
CONECT 2181 2182 2183 2180
CONECT 2182 2181
CONECT 2183 2181
CONECT 2184 2185 2180 2186
CONECT 2185 2184
CONECT 2186 2184 2187 2188
CONECT 2187 2186
CONECT 2188 2186 2193 2189
CONECT 2189 2188 2190 2191
CONECT 2190 2192 2189
CONECT 2191 2189
CONECT 2192 2190
CONECT 2193 2188 2194 2195
CONECT 2194 2193
CONECT 2195 2193 2196 2197
CONECT 2196 2195
CONECT 2197 2199 2195 2198
CONECT 2198 2197
CONECT 2199 2201 2200 2197
CONECT 2200 2199
CONECT 2201 2203 2202 2199
CONECT 2202 2201
CONECT 2203 2204 2211 2201
CONECT 2204 2205 2203
CONECT 2205 2207 2206 2204
CONECT 2206 2208 2205
CONECT 2207 2209 2205
CONECT 2208 2210 2206
CONECT 2209 2210 2207
CONECT 2210 2209 2208
CONECT 2211 2212 2213 2203
CONECT 2212 2211
CONECT 2213 2215 2211 2214
CONECT 2214 2213
CONECT 2215 2216 2213
CONECT 2216 2218 2217 2215
CONECT 2217 2216
CONECT 2218 2220 2219 2216
CONECT 2219 2218
CONECT 2220 2221 2218
CONECT 2221 2223 2222 2220
CONECT 2222 2221
CONECT 2223 2225 2224 2221
CONECT 2224 2223
CONECT 2225 2226 2233 2223
CONECT 2226 2227 2225
CONECT 2227 2226 2228
CONECT 2228 2227 2230 2229
CONECT 2229 2228
CONECT 2230 2231 2228 2232
CONECT 2231 2230
CONECT 2232 2230
CONECT 2233 2234 2235 2225
CONECT 2234 2233
CONECT 2235 2237 2233 2236

CONNECT 2236 2235
CONNECT 2237 2246 2235 2238
CONNECT 2238 2237 2239
CONNECT 2239 2238 2240
CONNECT 2240 2239 2241
CONNECT 2241 2242 2240
CONNECT 2242 2245 2244 2243 2241
CONNECT 2242
CONNECT 2243 2242
CONNECT 2244 2242
CONNECT 2245 2242
CONNECT 2246 2247 2248 2237
CONNECT 2247 2246
CONNECT 2248 2250 2246 2249
CONNECT 2249 2248
CONNECT 2250 2259 2251 2248
CONNECT 2251 2252 2250
CONNECT 2252 2253 2251
CONNECT 2253 2254 2252
CONNECT 2254 2255 2253
CONNECT 2255 2256 2258 2257 2254
CONNECT 2255
CONNECT 2256 2255
CONNECT 2257 2255
CONNECT 2258 2255
CONNECT 2259 2260 2261 2250
CONNECT 2260 2259
CONNECT 2261 2263 2259 2262
CONNECT 2262 2261
CONNECT 2263 2269 2261 2264
CONNECT 2264 2263 2265
CONNECT 2265 2264 2266
CONNECT 2266 2265 2267 2268
CONNECT 2267 2266
CONNECT 2268 2266
CONNECT 2269 2270 2263 2271
CONNECT 2270 2269
CONNECT 2271 2269 2273 2272
CONNECT 2272 2271
CONNECT 2273 2278 2271 2274
CONNECT 2274 2273 2275
CONNECT 2275 2274 2277 2276
CONNECT 2276 2275
CONNECT 2277 2275
CONNECT 2278 2279 2280 2273
CONNECT 2279 2278
CONNECT 2280 2282 2278 2281
CONNECT 2281 2280
CONNECT 2282 2288 2283 2280
CONNECT 2283 2284 2282
CONNECT 2284 2285 2283
CONNECT 2285 2286 2287 2284
CONNECT 2286 2285
CONNECT 2287 2285
CONNECT 2288 2289 2290 2282
CONNECT 2289 2288
CONNECT 2290 2292 2288 2291
CONNECT 2291 2290
CONNECT 2292 2305 2293 2290
CONNECT 2293 2294 2292
CONNECT 2294 2295 2293
CONNECT 2295 2296 2294
CONNECT 2296 2298 2295 2297
CONNECT 2297 2296
CONNECT 2298 2299 2302 2296
CONNECT 2299 2301 2300 2298
CONNECT 2300 2299
CONNECT 2301 2299
CONNECT 2302 2304 2298 2303
CONNECT 2303 2302
CONNECT 2304 2302
CONNECT 2305 2306 2307 2292
CONNECT 2306 2305
CONNECT 2307 2309 2305 2308

CONECT 2308 2307
CONECT 2309 2319 2310 2307
CONECT 2310 2309 2311
CONECT 2311 2313 2310 2312
CONECT 2312 2311 2314
CONECT 2313 2315 2311
CONECT 2314 2316 2312
CONECT 2315 2313 2316
CONECT 2316 2315 2317 2314
CONECT 2317 2316 2318
CONECT 2318 2317
CONECT 2319 2320 2309 2321
CONECT 2320 2319
CONECT 2321 2319 2323 2322
CONECT 2322 2321
CONECT 2323 2330 2321 2324
CONECT 2324 2323 2325
CONECT 2325 2324 2326 2327
CONECT 2326 2325
CONECT 2327 2325 2329 2328
CONECT 2328 2327
CONECT 2329 2327
CONECT 2330 2331 2332 2323
CONECT 2331 2330
CONECT 2332 2334 2330 2333
CONECT 2333 2332
CONECT 2334 2343 2335 2332
CONECT 2335 2334 2336
CONECT 2336 2335 2337
CONECT 2337 2336 2338
CONECT 2338 2337 2339
CONECT 2339 2342 2341 2338 2340
CONECT 2339
CONECT 2340 2339
CONECT 2341 2339
CONECT 2342 2339
CONECT 2343 2344 2345 2334
CONECT 2344 2343
CONECT 2345 2347 2343 2346
CONECT 2346 2345
CONECT 2347 2354 2348 2345
CONECT 2348 2347 2349
CONECT 2349 2348 2351 2350
CONECT 2350 2349
CONECT 2351 2352 2349 2353
CONECT 2352 2351
CONECT 2353 2351
CONECT 2354 2355 2356 2347
CONECT 2355 2354
CONECT 2356 2358 2354 2357
CONECT 2357 2356
CONECT 2358 2363 2359 2356
CONECT 2359 2358 2360
CONECT 2360 2361 2359 2362
CONECT 2361 2360
CONECT 2362 2360
CONECT 2363 2364 2358 2365
CONECT 2364 2363
CONECT 2365 2363 2367 2366
CONECT 2366 2365
CONECT 2367 2373 2365 2368
CONECT 2368 2367 2369
CONECT 2369 2368 2370
CONECT 2370 2369 2372 2371
CONECT 2371 2370
CONECT 2372 2370
CONECT 2373 2374 2375 2367
CONECT 2374 2373
CONECT 2375 2377 2373 2376
CONECT 2376 2375
CONECT 2377 2383 2378 2375
CONECT 2378 2379 2377
CONECT 2379 2380 2378
CONECT 2380 2382 2379 2381

CONNECT 2381 2380
CONNECT 2382 2380
CONNECT 2383 2384 2385 2377
CONNECT 2384 2383
CONNECT 2385 2387 2383 2386
CONNECT 2386 2385
CONNECT 2387 2389 2388 2385
CONNECT 2388 2387
CONNECT 2389 2390 2387 2391
CONNECT 2390 2389
CONNECT 2391 2389 2393 2392
CONNECT 2392 2391
CONNECT 2393 2402 2391 2394
CONNECT 2394 2393 2395
CONNECT 2395 2394 2396
CONNECT 2396 2395 2397
CONNECT 2397 2396 2398
CONNECT 2398 2397 2401 2399 2400
CONNECT 2398
CONNECT 2399 2398
CONNECT 2400 2398
CONNECT 2401 2398
CONNECT 2402 2403 2393 2404
CONNECT 2403 2402
CONNECT 2404 2402 2406 2405
CONNECT 2405 2404
CONNECT 2406 2419 2404 2407
CONNECT 2407 2406 2408
CONNECT 2408 2407 2409
CONNECT 2409 2408 2410
CONNECT 2410 2409 2412 2411
CONNECT 2411 2410
CONNECT 2412 2413 2410 2416
CONNECT 2413 2414 2415 2412
CONNECT 2414 2413
CONNECT 2415 2413
CONNECT 2416 2412 2418 2417
CONNECT 2417 2416
CONNECT 2418 2416
CONNECT 2419 2420 2421 2406
CONNECT 2420 2419
CONNECT 2421 2423 2419 2422
CONNECT 2422 2421
CONNECT 2423 2428 2424 2421
CONNECT 2424 2425 2423 2426
CONNECT 2425 2427 2424
CONNECT 2426 2424
CONNECT 2427 2425
CONNECT 2428 2429 2430 2423
CONNECT 2429 2428
CONNECT 2430 2432 2428 2431
CONNECT 2431 2430
CONNECT 2432 2433 2430
CONNECT 2433 2434 2432 2435
CONNECT 2434 2433
CONNECT 2435 2433 2437 2436
CONNECT 2436 2435
CONNECT 2437 2442 2435 2438
CONNECT 2438 2437 2439 2440
CONNECT 2439 2441 2438
CONNECT 2440 2438
CONNECT 2441 2439
CONNECT 2442 2443 2437 2444
CONNECT 2443 2442
CONNECT 2444 2442 2446 2445
CONNECT 2445 2444
CONNECT 2446 2455 2444 2447
CONNECT 2447 2446 2448
CONNECT 2448 2447 2449
CONNECT 2449 2448 2450
CONNECT 2450 2449 2451
CONNECT 2451 2450 2454 2453 2452
CONNECT 2451
CONNECT 2452 2451

CONECT 2453 2451
CONECT 2454 2451
CONECT 2455 2457 2456 2446
CONECT 2456 2455
CONECT 2457 2459 2458 2455
CONECT 2458 2457
CONECT 2459 2460 2468 2457
CONECT 2460 2461 2459
CONECT 2461 2460 2462
CONECT 2462 2463 2461
CONECT 2463 2464 2462
CONECT 2464 2465 2463 2466 2467
CONECT 2464
CONECT 2465 2464
CONECT 2466 2464
CONECT 2467 2464
CONECT 2468 2469 2459 2470
CONECT 2469 2468
CONECT 2470 2468 2472 2471
CONECT 2471 2470
CONECT 2472 2470 2473 2474
CONECT 2473 2472
CONECT 2474 2472 2475 2476
CONECT 2475 2474
CONECT 2476 2474 2477 2478
CONECT 2477 2476
CONECT 2478 2483 2476 2479
CONECT 2479 2478 2480 2481
CONECT 2480 2479 2482
CONECT 2481 2479
CONECT 2482 2480
CONECT 2483 2484 2485 2478
CONECT 2484 2483
CONECT 2485 2487 2483 2486
CONECT 2486 2485
CONECT 2487 2492 2488 2485
CONECT 2488 2491 2487 2489
CONECT 2489 2488 2490
CONECT 2490 2489
CONECT 2491 2488
CONECT 2492 2493 2494 2487
CONECT 2493 2492
CONECT 2494 2496 2492 2495
CONECT 2495 2494
CONECT 2496 2497 2498 2494
CONECT 2497 2496
CONECT 2498 2499 2496 2500
CONECT 2499 2498
CONECT 2500 2498 2502 2501
CONECT 2501 2500
CONECT 2502 2509 2500 2503
CONECT 2503 2502 2504
CONECT 2504 2505 2503 2506
CONECT 2505 2504
CONECT 2506 2504 2508 2507
CONECT 2507 2506
CONECT 2508 2506
CONECT 2509 2510 2502 2511
CONECT 2510 2509
CONECT 2511 2509 2513 2512
CONECT 2512 2511
CONECT 2513 2518 2511 2514
CONECT 2514 2513 2516 2515
CONECT 2515 2514 2517
CONECT 2516 2514
CONECT 2517 2515
CONECT 2518 2519 2520 2513
CONECT 2519 2518
CONECT 2520 2522 2518 2521
CONECT 2521 2520
CONECT 2522 2526 2523 2520
CONECT 2523 2524 2522
CONECT 2524 2523 2525
CONECT 2525 2524

CONECT	2526	2527	2522	2528
CONECT	2527	2526		
CONECT	2528	2526	2530	2529
CONECT	2529	2528		
CONECT	2530	2535	2528	2531
CONECT	2531	2530	2533	2532
CONECT	2532	2531	2534	
CONECT	2533	2531		
CONECT	2534	2532		
CONECT	2535	2536	2530	2537
CONECT	2536	2535		
CONECT	2537	2535	2539	2538
CONECT	2538	2537		
CONECT	2539	2540	2537	
CONECT	2540	2541	2542	2539
CONECT	2541	2540		
CONECT	2542	2544	2540	2543
CONECT	2543	2542		
CONECT	2544	2546	2545	2542
CONECT	2545	2544		
CONECT	2546	2547	2548	2544
CONECT	2547	2546		
CONECT	2548	2550	2546	2549
CONECT	2549	2548		
CONECT	2550	2552	2551	2548
CONECT	2551	2550		
CONECT	2552	2553	2550	2554
CONECT	2553	2552		
CONECT	2554	2552	2556	2555
CONECT	2555	2554		
CONECT	2556	2564	2554	2557
CONECT	2557	2556	2558	
CONECT	2558	2559	2557	2560
CONECT	2559	2561	2558	
CONECT	2560	2558	2562	
CONECT	2561	2559	2563	
CONECT	2562	2563	2560	
CONECT	2563	2561	2562	
CONECT	2564	2565	2556	2566
CONECT	2565	2564		
CONECT	2566	2564	2568	2567
CONECT	2567	2566		
CONECT	2568	2573	2566	2569
CONECT	2569	2568	2570	
CONECT	2570	2569	2572	2571
CONECT	2571	2570		
CONECT	2572	2570		
CONECT	2573	2574	2575	2568
CONECT	2574	2573		
CONECT	2575	2577	2573	2576
CONECT	2576	2575		
CONECT	2577	2582	2578	2575
CONECT	2578	2579	2577	
CONECT	2579	2581	2580	2578
CONECT	2580	2579		
CONECT	2581	2579		
CONECT	2582	2583	2584	2577
CONECT	2583	2582		
CONECT	2584	2586	2582	2585
CONECT	2585	2584		
CONECT	2586	2591	2587	2584
CONECT	2587	2589	2586	2588
CONECT	2588	2590	2587	
CONECT	2589	2587		
CONECT	2590	2588		
CONECT	2591	2592	2586	2593
CONECT	2592	2591		
CONECT	2593	2591	2595	2594
CONECT	2594	2593		
CONECT	2595	2605	2593	2596
CONECT	2596	2595	2597	
CONECT	2597	2598	2596	2599
CONECT	2598	2600	2597	
CONECT	2599	2597	2601	

CONECT 2600 2598 2602
CONECT 2601 2602 2599
CONECT 2602 2600 2603 2601
CONECT 2603 2604 2602
CONECT 2604 2603
CONECT 2605 2606 2607 2595
CONECT 2606 2605
CONECT 2607 2609 2605 2608
CONECT 2608 2607
CONECT 2609 2611 2610 2607
CONECT 2610 2609
CONECT 2611 2612 2613 2609
CONECT 2612 2611
CONECT 2613 2615 2611 2614
CONECT 2614 2613
CONECT 2615 2619 2616 2613
CONECT 2616 2615 2617
CONECT 2617 2616 2618
CONECT 2618 2617
CONECT 2619 2620 2615 2621
CONECT 2620 2619
CONECT 2621 2619 2623 2622
CONECT 2622 2621
CONECT 2623 2633 2621 2624
CONECT 2624 2623 2625
CONECT 2625 2627 2624 2626
CONECT 2626 2625 2628
CONECT 2627 2629 2625
CONECT 2628 2630 2626
CONECT 2629 2627 2630
CONECT 2630 2629 2631 2628
CONECT 2631 2630 2632
CONECT 2632 2631
CONECT 2633 2634 2623 2635
CONECT 2634 2633
CONECT 2635 2633 2637 2636
CONECT 2636 2635
CONECT 2637 2639 2635 2638
CONECT 2638 2637
CONECT 2639 2640 2641 2637
CONECT 2640 2639
CONECT 2641 2643 2639 2642
CONECT 2642 2641
CONECT 2643 2648 2644 2641
CONECT 2644 2645 2643
CONECT 2645 2647 2646 2644
CONECT 2646 2645
CONECT 2647 2645
CONECT 2648 2649 2650 2643
CONECT 2649 2648
CONECT 2650 2652 2648 2651
CONECT 2651 2650
CONECT 2652 2654 2653 2650
CONECT 2653 2652
CONECT 2654 2655 2652 2656
CONECT 2655 2654
CONECT 2656 2654 2658 2657
CONECT 2657 2656
CONECT 2658 2666 2656 2659
CONECT 2659 2658 2660
CONECT 2660 2659 2662 2661
CONECT 2661 2660 2663
CONECT 2662 2660 2664
CONECT 2663 2661 2665
CONECT 2664 2662 2665
CONECT 2665 2664 2663
CONECT 2666 2667 2668 2658
CONECT 2667 2666
CONECT 2668 2670 2666 2669
CONECT 2669 2668
CONECT 2670 2682 2671 2668
CONECT 2671 2670 2672
CONECT 2672 2671 2673 2674
CONECT 2673 2678 2672 2677

CONECT 2674 2672 2675
CONECT 2675 2677 2674 2676
CONECT 2676 2675
CONECT 2677 2673 2679 2675
CONECT 2678 2680 2673
CONECT 2679 2681 2677
CONECT 2680 2678 2681
CONECT 2681 2680 2679
CONECT 2682 2683 2684 2670
CONECT 2683 2682
CONECT 2684 2686 2682 2685
CONECT 2685 2684
CONECT 2686 2696 2687 2684
CONECT 2687 2688 2686
CONECT 2688 2690 2689 2687
CONECT 2689 2691 2688
CONECT 2690 2692 2688
CONECT 2691 2693 2689
CONECT 2692 2693 2690
CONECT 2693 2694 2692 2691
CONECT 2694 2695 2693
CONECT 2695 2694
CONECT 2696 2697 2698 2686
CONECT 2697 2696
CONECT 2698 2700 2696 2699
CONECT 2699 2698
CONECT 2700 2701 2698
CONECT 2701 2702 2700 2703
CONECT 2702 2701
CONECT 2703 2701 2705 2704
CONECT 2704 2703
CONECT 2705 2710 2703 2706
CONECT 2706 2705 2709 2707
CONECT 2707 2706 2708
CONECT 2708 2707
CONECT 2709 2706
CONECT 2710 2711 2712 2705
CONECT 2711 2710
CONECT 2712 2714 2710 2713
CONECT 2713 2712
CONECT 2714 2719 2715 2712
CONECT 2715 2716 2718 2714
CONECT 2716 2717 2715
CONECT 2717 2716
CONECT 2718 2715
CONECT 2719 2720 2721 2714
CONECT 2720 2719
CONECT 2721 2723 2719 2722
CONECT 2722 2721
CONECT 2723 2728 2724 2721
CONECT 2724 2725 2723
CONECT 2725 2726 2727 2724
CONECT 2726 2725
CONECT 2727 2725
CONECT 2728 2729 2723 2730
CONECT 2729 2728
CONECT 2730 2728 2732 2731
CONECT 2731 2730
CONECT 2732 2736 2730 2733
CONECT 2733 2732 2734 2735
CONECT 2734 2733
CONECT 2735 2733
CONECT 2736 2737 2732 2738
CONECT 2737 2736
CONECT 2738 2736 2740 2739
CONECT 2739 2738
CONECT 2740 2745 2738 2741
CONECT 2741 2740 2742
CONECT 2742 2741 2743 2744
CONECT 2743 2742
CONECT 2744 2742
CONECT 2745 2747 2746 2740
CONECT 2746 2745
CONECT 2747 2749 2748 2745

CONNECT 2748 2747
CONNECT 2749 2753 2750 2747
CONNECT 2750 2749 2751
CONNECT 2751 2750 2752
CONNECT 2752 2751
CONNECT 2753 2754 2755 2749
CONNECT 2754 2753
CONNECT 2755 2757 2753 2756
CONNECT 2756 2755
CONNECT 2757 2758 2755
CONNECT 2758 2759 2757 2760
CONNECT 2759 2758
CONNECT 2760 2758 2762 2761
CONNECT 2761 2760
CONNECT 2762 2763 2760 2768
CONNECT 2763 2764 2762
CONNECT 2764 2763 2765
CONNECT 2765 2767 2764 2766
CONNECT 2766 2765
CONNECT 2767 2765
CONNECT 2768 2762 2770 2769
CONNECT 2769 2768
CONNECT 2770 2771 2768 2772
CONNECT 2771 2770
CONNECT 2772 2770 2782 2773
CONNECT 2773 2772 2774
CONNECT 2774 2773 2775 2776
CONNECT 2775 2774 2777
CONNECT 2776 2774 2778
CONNECT 2777 2775 2779
CONNECT 2778 2776 2779
CONNECT 2779 2777 2778 2780
CONNECT 2780 2779 2781
CONNECT 2781 2780
CONNECT 2782 2772 2784 2783
CONNECT 2783 2782
CONNECT 2784 2785 2786 2782
CONNECT 2785 2784
CONNECT 2786 2787 2784 2790
CONNECT 2787 2788 2786
CONNECT 2788 2789 2787
CONNECT 2789 2788
CONNECT 2790 2786 2791 2792
CONNECT 2791 2790
CONNECT 2792 2790 2793 2794
CONNECT 2793 2792
CONNECT 2794 2792 2795 2799
CONNECT 2795 2797 2794 2796
CONNECT 2796 2795 2798
CONNECT 2797 2795
CONNECT 2798 2796
CONNECT 2799 2794 2801 2800
CONNECT 2800 2799
CONNECT 2801 2802 2799 2803
CONNECT 2802 2801
CONNECT 2803 2801 2804
CONNECT 2804 2803 2806 2805
CONNECT 2805 2804
CONNECT 2806 2807 2804 2808
CONNECT 2807 2806
CONNECT 2808 2809 2806 2816
CONNECT 2809 2808 2810
CONNECT 2810 2809 2811
CONNECT 2811 2810 2812 2813
CONNECT 2812 2811
CONNECT 2813 2811 2814 2815
CONNECT 2814 2813
CONNECT 2815 2813
CONNECT 2816 2818 2808 2817
CONNECT 2817 2816
CONNECT 2818 2819 2820 2816
CONNECT 2819 2818
CONNECT 2820 2821 2818 2824
CONNECT 2821 2822 2823 2820

CONNECT 2822 2821
CONNECT 2823 2821
CONNECT 2824 2820 2825 2826
CONNECT 2825 2824
CONNECT 2826 2824 2827 2828
CONNECT 2827 2826
CONNECT 2828 2826 2829 2833
CONNECT 2829 2828 2830
CONNECT 2830 2829 2831 2832
CONNECT 2831 2830
CONNECT 2832 2830
CONNECT 2833 2828 2835 2834
CONNECT 2834 2833
CONNECT 2835 2836 2833 2837
CONNECT 2836 2835
CONNECT 2837 2835 2838 2842
CONNECT 2838 2839 2837 2841
CONNECT 2839 2838 2840
CONNECT 2840 2839
CONNECT 2841 2838
CONNECT 2842 2844 2837 2843
CONNECT 2843 2842
CONNECT 2844 2845 2846 2842
CONNECT 2845 2844
CONNECT 2846 2847 2844 2850
CONNECT 2847 2849 2848 2846
CONNECT 2848 2847
CONNECT 2849 2847
CONNECT 2850 2846 2852 2851
CONNECT 2851 2850
CONNECT 2852 2853 2850 2854
CONNECT 2853 2852
CONNECT 2854 2855 2852 2862
CONNECT 2855 2856 2854
CONNECT 2856 2857 2858 2855
CONNECT 2857 2859 2856
CONNECT 2858 2860 2856
CONNECT 2859 2861 2857
CONNECT 2860 2861 2858
CONNECT 2861 2859 2860
CONNECT 2862 2854 2864 2863
CONNECT 2863 2862
CONNECT 2864 2865 2862 2866
CONNECT 2865 2864
CONNECT 2866 2864 2867 2874
CONNECT 2867 2866 2868
CONNECT 2868 2867 2869 2870
CONNECT 2869 2868 2871
CONNECT 2870 2868 2872
CONNECT 2871 2869 2873
CONNECT 2872 2870 2873
CONNECT 2873 2871 2872
CONNECT 2874 2866 2876 2875
CONNECT 2875 2874
CONNECT 2876 2877 2874 2878
CONNECT 2877 2876
CONNECT 2878 2879 2876 2882
CONNECT 2879 2880 2878
CONNECT 2880 2879 2881
CONNECT 2881 2880
CONNECT 2882 2884 2878 2883
CONNECT 2883 2882
CONNECT 2884 2885 2886 2882
CONNECT 2885 2884
CONNECT 2886 2887 2884 2890
CONNECT 2887 2889 2888 2886
CONNECT 2888 2887
CONNECT 2889 2887
CONNECT 2890 2886 2892 2891
CONNECT 2891 2890
CONNECT 2892 2893 2890 2894
CONNECT 2893 2892
CONNECT 2894 2892 2895 2899
CONNECT 2895 2894 2896

CONECT	2896	2895	2897	2898
CONECT	2897	2896		
CONECT	2898	2896		
CONECT	2899	2894	2901	2900
CONECT	2900	2899		
CONECT	2901	2902	2899	2903
CONECT	2902	2901		
CONECT	2903	2901	2904	2908
CONECT	2904	2905	2903	2906
CONECT	2905	2904	2907	
CONECT	2906	2904		
CONECT	2907	2905		
CONECT	2908	2910	2903	2909
CONECT	2909	2908		
CONECT	2910	2911	2912	2908
CONECT	2911	2910		
CONECT	2912	2910	2913	
CONECT	2913	2912	2915	2914
CONECT	2914	2913		
CONECT	2915	2916	2913	2917
CONECT	2916	2915		
CONECT	2917	2915	2918	2919
CONECT	2918	2917		
CONECT	2919	2917	2921	2920
CONECT	2920	2919		
CONECT	2921	2922	2919	2923
CONECT	2922	2921		
CONECT	2923	2921	2924	2931
CONECT	2924	2925	2923	
CONECT	2925	2926	2924	2927
CONECT	2926	2928	2925	
CONECT	2927	2925	2929	
CONECT	2928	2926	2930	
CONECT	2929	2930	2927	
CONECT	2930	2928	2929	
CONECT	2931	2923	2933	2932
CONECT	2932	2931		
CONECT	2933	2934	2931	2935
CONECT	2934	2933		
CONECT	2935	2936	2933	2939
CONECT	2936	2937	2935	
CONECT	2937	2938	2936	
CONECT	2938	2937		
CONECT	2939	2941	2935	2940
CONECT	2940	2939		
CONECT	2941	2942	2943	2939
CONECT	2942	2941		
CONECT	2943	2944	2941	2947
CONECT	2944	2946	2945	2943
CONECT	2945	2944		
CONECT	2946	2944		
CONECT	2947	2943	2949	2948
CONECT	2948	2947		
CONECT	2949	2950	2947	2951
CONECT	2950	2949		
CONECT	2951	2949	2952	
CONECT	2952	2951	2954	2953
CONECT	2953	2952		
CONECT	2954	2955	2952	2956
CONECT	2955	2954		
CONECT	2956	2954	2957	2964
CONECT	2957	2956	2958	
CONECT	2958	2957	2959	
CONECT	2959	2958	2960	2961
CONECT	2960	2959		
CONECT	2961	2959	2963	2962
CONECT	2962	2961		
CONECT	2963	2961		
CONECT	2964	2966	2956	2965
CONECT	2965	2964		
CONECT	2966	2967	2968	2964
CONECT	2967	2966		
CONECT	2968	2969	2966	2970
CONECT	2969	2968		

CONECT 2970 2968 2972 2971
CONECT 2971 2970
CONECT 2972 2973 2970 2974
CONECT 2973 2972
CONECT 2974 2972 2975 2978
CONECT 2975 2976 2974
CONECT 2976 2977 2975
CONECT 2977 2976
CONECT 2978 2974 2979 2980
CONECT 2979 2978
CONECT 2980 2978 2982 2981
CONECT 2981 2980 2985 2983
CONECT 2982 2980 2984
CONECT 2983 2984 2981
CONECT 2984 2982 2983
CONECT 2985 2987 2981 2986
CONECT 2986 2985
CONECT 2987 2988 2989 2985
CONECT 2988 2987
CONECT 2989 2990 2987 2993
CONECT 2990 2991 2989
CONECT 2991 2992 2990
CONECT 2992 2991
CONECT 2993 2995 2989 2994
CONECT 2994 2993
CONECT 2995 2996 2997 2993
CONECT 2996 2995
CONECT 2997 2998 2995 3002
CONECT 2998 2999 3000 2997
CONECT 2999 3001 2998
CONECT 3000 2998
CONECT 3001 2999
CONECT 3002 2997 3004 3003
CONECT 3003 3002
CONECT 3004 3002 3005 3006
CONECT 3005 3004
CONECT 3006 3004 3007 3012
CONECT 3007 3006 3008
CONECT 3008 3007 3009
CONECT 3009 3008 3010 3011
CONECT 3010 3009
CONECT 3011 3009
CONECT 3012 3006 3014 3013
CONECT 3013 3012
CONECT 3014 3015 3012 3016
CONECT 3015 3014
CONECT 3016 3014 3018 3017
CONECT 3017 3016
CONECT 3018 3020 3016 3019
CONECT 3019 3018
CONECT 3020 3021 3022 3018
CONECT 3021 3020
CONECT 3022 3023 3020 3030
CONECT 3023 3024 3022
CONECT 3024 3025 3023 3026
CONECT 3025 3027 3024
CONECT 3026 3024 3028
CONECT 3027 3025 3029
CONECT 3028 3029 3026
CONECT 3029 3027 3028
CONECT 3030 3032 3022 3031
CONECT 3031 3030
CONECT 3032 3033 3034 3030
CONECT 3033 3032
CONECT 3034 3035 3032 3036
CONECT 3035 3034
CONECT 3036 3034 3037 3038
CONECT 3037 3036
CONECT 3038 3036 3039 3040
CONECT 3039 3038
CONECT 3040 3038 3041 3047
CONECT 3041 3042 3040
CONECT 3042 3043 3041 3044
CONECT 3043 3042

CONNECT 3044 3042 3045 3046
CONNECT 3045 3044
CONNECT 3046 3044
CONNECT 3047 3040 3049 3048
CONNECT 3048 3047
CONNECT 3049 3050 3047 3051
CONNECT 3050 3049
CONNECT 3051 3049 3053 3052
CONNECT 3052 3051
CONNECT 3053 3055 3051 3054
CONNECT 3054 3053
CONNECT 3055 3056 3057 3053
CONNECT 3056 3055
CONNECT 3057 3058 3055 3070
CONNECT 3058 3059 3057
CONNECT 3059 3060 3058
CONNECT 3060 3061 3059
CONNECT 3061 3063 3060 3062
CONNECT 3062 3061
CONNECT 3063 3064 3067 3061
CONNECT 3064 3066 3065 3063
CONNECT 3065 3064
CONNECT 3066 3064
CONNECT 3067 3069 3063 3068
CONNECT 3068 3067
CONNECT 3069 3067
CONNECT 3070 3057 3072 3071
CONNECT 3071 3070
CONNECT 3072 3073 3070 3074
CONNECT 3073 3072
CONNECT 3074 3072 3075
CONNECT 3075 3074 3076 3077
CONNECT 3076 3075
CONNECT 3077 3075 3078 3079
CONNECT 3078 3077
CONNECT 3079 3077 3081 3080
CONNECT 3080 3079
CONNECT 3081 3083 3079 3082
CONNECT 3082 3081
CONNECT 3083 3084 3081 3085
CONNECT 3084 3083
CONNECT 3085 3086 3087 3083
CONNECT 3086 3085
CONNECT 3087 3089 3085 3088
CONNECT 3088 3087
CONNECT 3089 3090 3091 3087
CONNECT 3090 3089
CONNECT 3091 3092 3089 3101
CONNECT 3092 3093 3091
CONNECT 3093 3094 3095 3092
CONNECT 3094 3096 3093
CONNECT 3095 3097 3093
CONNECT 3096 3098 3094
CONNECT 3097 3098 3095
CONNECT 3098 3099 3096 3097
CONNECT 3099 3100 3098
CONNECT 3100 3099
CONNECT 3101 3091 3103 3102
CONNECT 3102 3101
CONNECT 3103 3104 3101 3105
CONNECT 3104 3103
CONNECT 3105 3103 3106 3111
CONNECT 3106 3107 3105
CONNECT 3107 3108 3106
CONNECT 3108 3110 3107 3109
CONNECT 3109 3108
CONNECT 3110 3108
CONNECT 3111 3105 3112 3113
CONNECT 3112 3111
CONNECT 3113 3111 3114 3115
CONNECT 3114 3113
CONNECT 3115 3113 3120 3116
CONNECT 3116 3115 3118 3117
CONNECT 3117 3116 3119

CONNECT 3118 3116
CONNECT 3119 3117
CONNECT 3120 3122 3115 3121
CONNECT 3121 3120
CONNECT 3122 3123 3124 3120
CONNECT 3123 3122
CONNECT 3124 3125 3132 3122
CONNECT 3125 3126 3124
CONNECT 3126 3127 3125 3128
CONNECT 3127 3129 3126
CONNECT 3128 3126 3130
CONNECT 3129 3127 3131
CONNECT 3130 3131 3128
CONNECT 3131 3129 3130
CONNECT 3132 3134 3124 3133
CONNECT 3133 3132
CONNECT 3134 3135 3136 3132
CONNECT 3135 3134
CONNECT 3136 3137 3134 3145
CONNECT 3137 3138 3136
CONNECT 3138 3139 3137
CONNECT 3139 3140 3138
CONNECT 3140 3141 3139
CONNECT 3141 3143 3142 3144 3140
CONNECT 3141
CONNECT 3142 3141
CONNECT 3143 3141
CONNECT 3144 3141
CONNECT 3145 3136 3147 3146
CONNECT 3146 3145
CONNECT 3147 3148 3145 3149
CONNECT 3148 3147
CONNECT 3149 3147 3150 3154
CONNECT 3150 3151 3149 3152
CONNECT 3151 3153 3150
CONNECT 3152 3150
CONNECT 3153 3151
CONNECT 3154 3149 3156 3155
CONNECT 3155 3154
CONNECT 3156 3157 3154 3158
CONNECT 3157 3156
CONNECT 3158 3159 3156 3163
CONNECT 3159 3160 3161 3158
CONNECT 3160 3162 3159
CONNECT 3161 3159
CONNECT 3162 3160
CONNECT 3163 3165 3158 3164
CONNECT 3164 3163
CONNECT 3165 3166 3167 3163
CONNECT 3166 3165
CONNECT 3167 3168 3165 3172
CONNECT 3168 3169 3167
CONNECT 3169 3171 3168 3170
CONNECT 3170 3169
CONNECT 3171 3169
CONNECT 3172 3167 3174 3173
CONNECT 3173 3172
CONNECT 3174 3175 3176 3172
CONNECT 3175 3174
CONNECT 3176 3174 3177 3183
CONNECT 3177 3176 3178
CONNECT 3178 3177 3179 3180
CONNECT 3179 3178
CONNECT 3180 3178 3181 3182
CONNECT 3181 3180
CONNECT 3182 3180
CONNECT 3183 3176 3185 3184
CONNECT 3184 3183
CONNECT 3185 3186 3183 3187
CONNECT 3186 3185
CONNECT 3187 3185 3188 3196
CONNECT 3188 3187 3189
CONNECT 3189 3188 3190
CONNECT 3190 3189 3191

CONNECT 3191 3190 3192
CONNECT 3192 3195 3191 3194 3193
CONNECT 3192
CONNECT 3193 3192
CONNECT 3194 3192
CONNECT 3195 3192
CONNECT 3196 3187 3198 3197
CONNECT 3197 3196
CONNECT 3198 3200 3196 3199
CONNECT 3199 3198 3201 3203
CONNECT 3200 3202 3198
CONNECT 3201 3202 3199
CONNECT 3202 3200 3201
CONNECT 3203 3199 3204 3205
CONNECT 3204 3203
CONNECT 3205 3203 3206 3207
CONNECT 3206 3205
CONNECT 3207 3205 3208 3211
CONNECT 3208 3209 3207
CONNECT 3209 3210 3208
CONNECT 3210 3209
CONNECT 3211 3207 3213 3212
CONNECT 3212 3211
CONNECT 3213 3214 3211 3215
CONNECT 3214 3213
CONNECT 3215 3216 3213 3220
CONNECT 3216 3217 3218 3215
CONNECT 3217 3219 3216
CONNECT 3218 3216
CONNECT 3219 3217
CONNECT 3220 3215 3222 3221
CONNECT 3221 3220
CONNECT 3222 3223 3220 3224
CONNECT 3223 3222
CONNECT 3224 3222 3225 3229
CONNECT 3225 3226 3224
CONNECT 3226 3228 3225 3227
CONNECT 3227 3226
CONNECT 3228 3226
CONNECT 3229 3224 3231 3230
CONNECT 3230 3229
CONNECT 3231 3232 3229 3233
CONNECT 3232 3231
CONNECT 3233 3231 3237 3234
CONNECT 3234 3233 3235
CONNECT 3235 3234 3236
CONNECT 3236 3235
CONNECT 3237 3239 3233 3238
CONNECT 3238 3237
CONNECT 3239 3240 3241 3237
CONNECT 3240 3239
CONNECT 3241 3242 3239 3251
CONNECT 3242 3243 3241
CONNECT 3243 3244 3245 3242
CONNECT 3244 3246 3243
CONNECT 3245 3247 3243
CONNECT 3246 3248 3244
CONNECT 3247 3248 3245
CONNECT 3248 3249 3246 3247
CONNECT 3249 3250 3248
CONNECT 3250 3249
CONNECT 3251 3241 3253 3252
CONNECT 3252 3251
CONNECT 3253 3254 3251 3255
CONNECT 3254 3253
CONNECT 3255 3253 3259 3256
CONNECT 3256 3255 3257
CONNECT 3257 3256 3258
CONNECT 3258 3257
CONNECT 3259 3260 3255 3261
CONNECT 3260 3259
CONNECT 3261 3259 3263 3262
CONNECT 3262 3261
CONNECT 3263 3264 3261 3272

CONNECT 3264 3265 3263
CONNECT 3265 3266 3264
CONNECT 3266 3267 3265
CONNECT 3267 3266 3268
CONNECT 3268 3271 3267 3269 3270
CONNECT 3268
CONNECT 3269 3268
CONNECT 3270 3268
CONNECT 3271 3268
CONNECT 3272 3263 3274 3273
CONNECT 3273 3272
CONNECT 3274 3275 3272 3276
CONNECT 3275 3274
CONNECT 3276 3274 3277 3280
CONNECT 3277 3278 3276
CONNECT 3278 3279 3277
CONNECT 3279 3278
CONNECT 3280 3276 3281 3282
CONNECT 3281 3280
CONNECT 3282 3280 3284 3283
CONNECT 3283 3282
CONNECT 3284 3282 3285
CONNECT 3285 3284 3286 3287
CONNECT 3286 3285
CONNECT 3287 3285 3288 3289
CONNECT 3288 3287
CONNECT 3289 3287 3293 3298
CONNECT 3290 3291 3292 3297
CONNECT 3291 3290
CONNECT 3292 3293 3290 3296
CONNECT 3293 3289 3292
CONNECT 3294 3296 3297 3295
CONNECT 3295 3294
CONNECT 3296 3292 3294
CONNECT 3297 3290 3294
CONNECT 3298 3289 3299 3300
CONNECT 3299 3298
CONNECT 3300 3298 3301 3302
CONNECT 3301 3300
CONNECT 3302 3300 3303 3311
CONNECT 3303 3304 3302
CONNECT 3304 3305 3303
CONNECT 3305 3306 3304
CONNECT 3306 3307 3305
CONNECT 3307 3308 3310 3306 3309
CONNECT 3307
CONNECT 3308 3307
CONNECT 3309 3307
CONNECT 3310 3307
CONNECT 3311 3302 3313 3312
CONNECT 3312 3311
CONNECT 3313 3315 3311 3314
CONNECT 3314 3313 3316 3318
CONNECT 3315 3317 3313
CONNECT 3316 3317 3314
CONNECT 3317 3315 3316
CONNECT 3318 3314 3319 3320
CONNECT 3319 3318
CONNECT 3320 3318 3321 3322
CONNECT 3321 3320
CONNECT 3322 3320 3323 3327
CONNECT 3323 3324 3322
CONNECT 3324 3325 3326 3323
CONNECT 3325 3324
CONNECT 3326 3324
CONNECT 3327 3322 3329 3328
CONNECT 3328 3327
CONNECT 3329 3330 3327 3331
CONNECT 3330 3329
CONNECT 3331 3329 3338 3332
CONNECT 3332 3333 3331
CONNECT 3333 3335 3334 3332
CONNECT 3334 3333
CONNECT 3335 3337 3336 3333

CONNECT 3336 3335
CONNECT 3337 3335
CONNECT 3338 3339 3331 3340
CONNECT 3339 3338
CONNECT 3340 3338 3342 3341
CONNECT 3341 3340
CONNECT 3342 3347 3340 3343
CONNECT 3343 3342 3345 3344
CONNECT 3344 3346 3343
CONNECT 3345 3343
CONNECT 3346 3344
CONNECT 3347 3348 3342 3349
CONNECT 3348 3347
CONNECT 3349 3347 3351 3350
CONNECT 3350 3349
CONNECT 3351 3360 3349 3352
CONNECT 3352 3351 3353
CONNECT 3353 3352 3354
CONNECT 3354 3353 3355
CONNECT 3355 3354 3356
CONNECT 3356 3359 3357 3355 3358
CONNECT 3356
CONNECT 3357 3356
CONNECT 3358 3356
CONNECT 3359 3356
CONNECT 3360 3361 3362 3351
CONNECT 3361 3360
CONNECT 3362 3364 3360 3363
CONNECT 3363 3362
CONNECT 3364 3365 3362
CONNECT 3365 3367 3364 3366
CONNECT 3366 3365
CONNECT 3367 3368 3369 3365
CONNECT 3368 3367
CONNECT 3369 3376 3367 3370
CONNECT 3370 3369 3371
CONNECT 3371 3370 3372 3373
CONNECT 3372 3371
CONNECT 3373 3371 3375 3374
CONNECT 3374 3373
CONNECT 3375 3373
CONNECT 3376 3377 3378 3369
CONNECT 3377 3376
CONNECT 3378 3380 3376 3379
CONNECT 3379 3378
CONNECT 3380 3385 3381 3378
CONNECT 3381 3382 3380
CONNECT 3382 3384 3381 3383
CONNECT 3383 3382
CONNECT 3384 3382
CONNECT 3385 3387 3380 3386
CONNECT 3386 3385
CONNECT 3387 3388 3389 3385
CONNECT 3388 3387
CONNECT 3389 3395 3390 3387
CONNECT 3390 3389 3391
CONNECT 3391 3390 3392
CONNECT 3392 3391 3393 3394
CONNECT 3393 3392
CONNECT 3394 3392
CONNECT 3395 3396 3397 3389
CONNECT 3396 3395
CONNECT 3397 3399 3395 3398
CONNECT 3398 3397
CONNECT 3399 3400 3407 3397
CONNECT 3400 3401 3399
CONNECT 3401 3403 3400 3402
CONNECT 3402 3401 3404
CONNECT 3403 3405 3401
CONNECT 3404 3406 3402
CONNECT 3405 3403 3406
CONNECT 3406 3405 3404
CONNECT 3407 3409 3399 3408
CONNECT 3408 3407

CONNECT 3409 3410 3411 3407
CONNECT 3410 3409
CONNECT 3411 3424 3409 3412
CONNECT 3412 3411 3413
CONNECT 3413 3412 3414
CONNECT 3414 3413 3415
CONNECT 3415 3416 3414 3417
CONNECT 3416 3415
CONNECT 3417 3415 3421 3418
CONNECT 3418 3417 3419 3420
CONNECT 3419 3418
CONNECT 3420 3418
CONNECT 3421 3422 3417 3423
CONNECT 3422 3421
CONNECT 3423 3421
CONNECT 3424 3425 3426 3411
CONNECT 3425 3424
CONNECT 3426 3428 3424 3427
CONNECT 3427 3426
CONNECT 3428 3435 3429 3426
CONNECT 3429 3430 3428
CONNECT 3430 3432 3431 3429
CONNECT 3431 3430
CONNECT 3432 3433 3434 3430
CONNECT 3433 3432
CONNECT 3434 3432
CONNECT 3435 3436 3437 3428
CONNECT 3436 3435
CONNECT 3437 3439 3435 3438
CONNECT 3438 3437
CONNECT 3439 3443 3440 3437
CONNECT 3440 3441 3439 3442
CONNECT 3441 3440
CONNECT 3442 3440
CONNECT 3443 3445 3444 3439
CONNECT 3444 3443
CONNECT 3445 3447 3446 3443
CONNECT 3446 3445
CONNECT 3447 3451 3456 3445
CONNECT 3448 3450 3455 3449
CONNECT 3449 3448
CONNECT 3450 3451 3454 3448
CONNECT 3451 3450 3447
CONNECT 3452 3454 3453 3455
CONNECT 3453 3452
CONNECT 3454 3450 3452
CONNECT 3455 3452 3448
CONNECT 3456 3458 3457 3447
CONNECT 3457 3456
CONNECT 3458 3460 3459 3456
CONNECT 3459 3458
CONNECT 3460 3468 3458 3461
CONNECT 3461 3460 3462
CONNECT 3462 3463 3464 3461
CONNECT 3463 3465 3462
CONNECT 3464 3466 3462
CONNECT 3465 3467 3463
CONNECT 3466 3467 3464
CONNECT 3467 3465 3466
CONNECT 3468 3470 3469 3460
CONNECT 3469 3468
CONNECT 3470 3472 3471 3468
CONNECT 3471 3470
CONNECT 3472 3473 3476 3470
CONNECT 3473 3474 3472
CONNECT 3474 3475 3473
CONNECT 3475 3474
CONNECT 3476 3478 3477 3472
CONNECT 3477 3476
CONNECT 3478 3480 3479 3476
CONNECT 3479 3478
CONNECT 3480 3490 3481 3478
CONNECT 3481 3480 3482
CONNECT 3482 3481 3484 3483

CONECT 3483 3482 3485
CONECT 3484 3482 3486
CONECT 3485 3483 3487
CONECT 3486 3484 3487
CONECT 3487 3486 3485 3488
CONECT 3488 3487 3489
CONECT 3489 3488
CONECT 3490 3491 3492 3480
CONECT 3491 3490
CONECT 3492 3493 3490 3494
CONECT 3493 3497 3495 3492
CONECT 3494 3496 3492
CONECT 3495 3493 3496
CONECT 3496 3495 3494
CONECT 3497 3498 3499 3493
CONECT 3498 3497
CONECT 3499 3501 3497 3500
CONECT 3500 3499
CONECT 3501 3502 3505 3499
CONECT 3502 3503 3501
CONECT 3503 3504 3502
CONECT 3504 3503
CONECT 3505 3507 3501 3506
CONECT 3506 3505
CONECT 3507 3508 3509 3505
CONECT 3508 3507
CONECT 3509 3510 3507 3522
CONECT 3510 3511 3509
CONECT 3511 3512 3510
CONECT 3512 3513 3511
CONECT 3513 3514 3515 3512
CONECT 3514 3513
CONECT 3515 3519 3513 3516
CONECT 3516 3515 3517 3518
CONECT 3517 3516
CONECT 3518 3516
CONECT 3519 3521 3520 3515
CONECT 3520 3519
CONECT 3521 3519
CONECT 3522 3524 3509 3523
CONECT 3523 3522
CONECT 3524 3525 3526 3522
CONECT 3525 3524
CONECT 3526 3527 3524 3535
CONECT 3527 3528 3526
CONECT 3528 3529 3527
CONECT 3529 3530 3528
CONECT 3530 3531 3529
CONECT 3531 3534 3532 3530 3533
CONECT 3531
CONECT 3532 3531
CONECT 3533 3531
CONECT 3534 3531
CONECT 3535 3526 3536 3537
CONECT 3536 3535
CONECT 3537 3535 3538 3539
CONECT 3538 3537
CONECT 3539 3537 3540 3545
CONECT 3540 3541 3539
CONECT 3541 3542 3540
CONECT 3542 3544 3543 3541
CONECT 3543 3542
CONECT 3544 3542
CONECT 3545 3539 3546 3547
CONECT 3546 3545
CONECT 3547 3545 3548 3549
CONECT 3548 3547
CONECT 3549 3547 3550 3553
CONECT 3550 3551 3549 3552
CONECT 3551 3550
CONECT 3552 3550
CONECT 3553 3549 3554 3555
CONECT 3554 3553
CONECT 3555 3553 3556 3557

CONNECT 3556 3555
CONNECT 3557 3555 3558 3566
CONNECT 3558 3557 3559
CONNECT 3559 3560 3558
CONNECT 3560 3561 3559
CONNECT 3561 3562 3560
CONNECT 3562 3565 3564 3563 3561
CONNECT 3562
CONNECT 3563 3562
CONNECT 3564 3562
CONNECT 3565 3562
CONNECT 3566 3557 3568 3567
CONNECT 3567 3566
CONNECT 3568 3569 3566 3570
CONNECT 3569 3568
CONNECT 3570 3568 3571 3575
CONNECT 3571 3572 3570 3573
CONNECT 3572 3574 3571
CONNECT 3573 3571
CONNECT 3574 3572
CONNECT 3575 3570 3577 3576
CONNECT 3576 3575
CONNECT 3577 3578 3575 3579
CONNECT 3578 3577
CONNECT 3579 3577 3584 3580
CONNECT 3580 3579 3581
CONNECT 3581 3580 3582 3583
CONNECT 3582 3581
CONNECT 3583 3581
CONNECT 3584 3585 3586 3579
CONNECT 3585 3584
CONNECT 3586 3588 3584 3587
CONNECT 3587 3586
CONNECT 3588 3589 3586 3597
CONNECT 3589 3588 3590
CONNECT 3590 3589 3591
CONNECT 3591 3590 3592
CONNECT 3592 3591 3593
CONNECT 3593 3595 3592 3596 3594
CONNECT 3593
CONNECT 3594 3593
CONNECT 3595 3593
CONNECT 3596 3593
CONNECT 3597 3588 3598 3599
CONNECT 3598 3597
CONNECT 3599 3597 3600 3601
CONNECT 3600 3599
CONNECT 3601 3599 3602
CONNECT 3602 3601 3603 3604
CONNECT 3603 3602
CONNECT 3604 3602 3605 3606
CONNECT 3605 3604
CONNECT 3606 3604 3607 3611
CONNECT 3607 3606 3608
CONNECT 3608 3607 3609 3610
CONNECT 3609 3608
CONNECT 3610 3608
CONNECT 3611 3606 3612 3613
CONNECT 3612 3611
CONNECT 3613 3611 3614 3615
CONNECT 3614 3613
CONNECT 3615 3613 3616 3622
CONNECT 3616 3617 3615
CONNECT 3617 3619 3618 3616
CONNECT 3618 3617
CONNECT 3619 3620 3621 3617
CONNECT 3620 3619
CONNECT 3621 3619
CONNECT 3622 3615 3623 3624
CONNECT 3623 3622
CONNECT 3624 3622 3625 3626
CONNECT 3625 3624
CONNECT 3626 3624 3627 3631
CONNECT 3627 3626 3628

CONNECT 3628 3627 3630 3629
CONNECT 3629 3628
CONNECT 3630 3628
CONNECT 3631 3626 3632 3633
CONNECT 3632 3631
CONNECT 3633 3631 3634 3635
CONNECT 3634 3633
CONNECT 3635 3633 3636 3644
CONNECT 3636 3635 3637
CONNECT 3637 3636 3638
CONNECT 3638 3637 3639
CONNECT 3639 3638 3640
CONNECT 3640 3642 3643 3639 3641
CONNECT 3640
CONNECT 3641 3640
CONNECT 3642 3640
CONNECT 3643 3640
CONNECT 3644 3635 3645 3646
CONNECT 3645 3644
CONNECT 3646 3644 3647 3648
CONNECT 3647 3646
CONNECT 3648 3646 3649 3652
CONNECT 3649 3650 3651 3648
CONNECT 3650 3649
CONNECT 3651 3649
CONNECT 3652 3648 3653 3654
CONNECT 3653 3652
CONNECT 3654 3652 3655 3656
CONNECT 3655 3654
CONNECT 3656 3654 3664 3657
CONNECT 3657 3656 3658
CONNECT 3658 3657 3659
CONNECT 3659 3660 3658 3661
CONNECT 3660 3659
CONNECT 3661 3659 3662 3663
CONNECT 3662 3661
CONNECT 3663 3661
CONNECT 3664 3665 3656 3666
CONNECT 3665 3664
CONNECT 3666 3664 3668 3667
CONNECT 3667 3666
CONNECT 3668 3666 3672 3669
CONNECT 3669 3668 3670
CONNECT 3670 3669 3671
CONNECT 3671 3670
CONNECT 3672 3673 3668 3674
CONNECT 3673 3672
CONNECT 3674 3672 3676 3675
CONNECT 3675 3674
CONNECT 3676 3674 3677
CONNECT 3677 3679 3678 3676
CONNECT 3678 3677
CONNECT 3679 3681 3680 3677
CONNECT 3680 3679
CONNECT 3681 3689 3682 3679
CONNECT 3682 3681 3683
CONNECT 3683 3682 3684
CONNECT 3684 3685 3683 3686
CONNECT 3685 3684
CONNECT 3686 3684 3687 3688
CONNECT 3687 3686
CONNECT 3688 3686
CONNECT 3689 3690 3691 3681
CONNECT 3690 3689
CONNECT 3691 3693 3689 3692
CONNECT 3692 3691
CONNECT 3693 3698 3694 3691
CONNECT 3694 3697 3693 3695
CONNECT 3695 3694 3696
CONNECT 3696 3695
CONNECT 3697 3694
CONNECT 3698 3700 3693 3699
CONNECT 3699 3698
CONNECT 3700 3702 3701 3698

CONNECT 3701 3700
CONNECT 3702 3703 3706 3700
CONNECT 3703 3705 3704 3702
CONNECT 3704 3703
CONNECT 3705 3703
CONNECT 3706 3707 3708 3702
CONNECT 3707 3706
CONNECT 3708 3710 3706 3709
CONNECT 3709 3708
CONNECT 3710 3712 3711 3708
CONNECT 3711 3710
CONNECT 3712 3714 3713 3710
CONNECT 3713 3712
CONNECT 3714 3716 3715 3712
CONNECT 3715 3714
CONNECT 3716 3717 3721 3714
CONNECT 3717 3718 3716
CONNECT 3718 3720 3717 3719
CONNECT 3719 3718
CONNECT 3720 3718
CONNECT 3721 3723 3722 3716
CONNECT 3722 3721
CONNECT 3723 3725 3724 3721
CONNECT 3724 3723
CONNECT 3725 3729 3723 3726
CONNECT 3726 3725 3727 3728
CONNECT 3727 3726
CONNECT 3728 3726
CONNECT 3729 3731 3730 3725
CONNECT 3730 3729
CONNECT 3731 3733 3732 3729
CONNECT 3732 3731
CONNECT 3733 3734 3731
CONNECT 3734 3736 3733 3735
CONNECT 3735 3734
CONNECT 3736 3737 3738 3734
CONNECT 3737 3736
CONNECT 3738 3745 3739 3736
CONNECT 3739 3738 3740
CONNECT 3740 3739 3741 3742
CONNECT 3741 3740
CONNECT 3742 3740 3744 3743
CONNECT 3743 3742
CONNECT 3744 3742
CONNECT 3745 3747 3746 3738
CONNECT 3746 3745
CONNECT 3747 3749 3748 3745
CONNECT 3748 3747
CONNECT 3749 3753 3750 3747
CONNECT 3750 3751 3749
CONNECT 3751 3750 3752
CONNECT 3752 3751
CONNECT 3753 3754 3749 3755
CONNECT 3754 3753
CONNECT 3755 3753 3757 3756
CONNECT 3756 3755
CONNECT 3757 3758 3755
CONNECT 3758 3760 3759 3757
CONNECT 3759 3758
CONNECT 3760 3762 3761 3758
CONNECT 3761 3760
CONNECT 3762 3763 3760 3765
CONNECT 3763 3764 3762
CONNECT 3764 3763
CONNECT 3765 3762 3766 3767
CONNECT 3766 3765
CONNECT 3767 3765 3768 3769
CONNECT 3768 3767
CONNECT 3769 3767 3770
CONNECT 3770 3769 3771 3772
CONNECT 3771 3770
CONNECT 3772 3770 3773 3774
CONNECT 3773 3772
CONNECT 3774 3772 3783 3775

CONNECT 3775 3774 3776
CONNECT 3776 3777 3775
CONNECT 3777 3778 3776
CONNECT 3778 3779 3777
CONNECT 3779 3781 3780 3782 3778
CONNECT 3779
CONNECT 3780 3779
CONNECT 3781 3779
CONNECT 3782 3779
CONNECT 3783 3785 3774 3784
CONNECT 3784 3783
CONNECT 3785 3786 3787 3783
CONNECT 3786 3785
CONNECT 3787 3788 3791 3785
CONNECT 3788 3789 3787
CONNECT 3789 3790 3788
CONNECT 3790 3789
CONNECT 3791 3793 3792 3787
CONNECT 3792 3791
CONNECT 3793 3795 3794 3791
CONNECT 3794 3793
CONNECT 3795 3796 3793 3800
CONNECT 3796 3797 3799 3795
CONNECT 3797 3798 3796
CONNECT 3798 3797
CONNECT 3799 3796
CONNECT 3800 3795 3801 3802
CONNECT 3801 3800
CONNECT 3802 3800 3803 3804
CONNECT 3803 3802
CONNECT 3804 3802 3809 3805
CONNECT 3805 3804 3808 3806
CONNECT 3806 3805 3807
CONNECT 3807 3806
CONNECT 3808 3805
CONNECT 3809 3804 3810 3811
CONNECT 3810 3809
CONNECT 3811 3809 3812 3813
CONNECT 3812 3811
CONNECT 3813 3817 3811 3814
CONNECT 3814 3813 3815 3816
CONNECT 3815 3814
CONNECT 3816 3814
CONNECT 3817 3819 3818 3813
CONNECT 3818 3817
CONNECT 3819 3821 3820 3817
CONNECT 3820 3819
CONNECT 3821 3822 3829 3819
CONNECT 3822 3823 3821
CONNECT 3823 3824 3822
CONNECT 3824 3823 3826 3825
CONNECT 3825 3824
CONNECT 3826 3827 3828 3824
CONNECT 3827 3826
CONNECT 3828 3826
CONNECT 3829 3831 3821 3830
CONNECT 3830 3829
CONNECT 3831 3833 3832 3829
CONNECT 3832 3831
CONNECT 3833 3834 3831 3838
CONNECT 3834 3833 3835
CONNECT 3835 3834 3837 3836
CONNECT 3836 3835
CONNECT 3837 3835
CONNECT 3838 3833 3839 3840
CONNECT 3839 3838
CONNECT 3840 3838 3841 3842
CONNECT 3841 3840
CONNECT 3842 3840 3847 3843
CONNECT 3843 3842 3844
CONNECT 3844 3843 3845
CONNECT 3845 3846 3844
CONNECT 3846 3845
CONNECT 3847 3849 3842 3848

CONNECT 3848 3847
CONNECT 3849 3850 3851 3847
CONNECT 3850 3849
CONNECT 3851 3859 3852 3849
CONNECT 3852 3853 3851
CONNECT 3853 3854 3852
CONNECT 3854 3853 3855 3856
CONNECT 3855 3854
CONNECT 3856 3854 3858 3857
CONNECT 3857 3856
CONNECT 3858 3856
CONNECT 3859 3861 3860 3851
CONNECT 3860 3859
CONNECT 3861 3863 3862 3859
CONNECT 3862 3861
CONNECT 3863 3876 3864 3861
CONNECT 3864 3865 3863
CONNECT 3865 3866 3864
CONNECT 3866 3867 3865
CONNECT 3867 3869 3866 3868
CONNECT 3868 3867
CONNECT 3869 3870 3873 3867
CONNECT 3870 3871 3872 3869
CONNECT 3871 3870
CONNECT 3872 3870
CONNECT 3873 3874 3869 3875
CONNECT 3874 3873
CONNECT 3875 3873
CONNECT 3876 3877 3878 3863
CONNECT 3877 3876
CONNECT 3878 3880 3876 3879
CONNECT 3879 3878
CONNECT 3880 3885 3881 3878
CONNECT 3881 3882 3880
CONNECT 3882 3883 3884 3881
CONNECT 3883 3882
CONNECT 3884 3882
CONNECT 3885 3886 3887 3880
CONNECT 3886 3885
CONNECT 3887 3889 3885 3888
CONNECT 3888 3887
CONNECT 3889 3890 3899 3887
CONNECT 3890 3891 3889
CONNECT 3891 3893 3890 3892
CONNECT 3892 3891 3894
CONNECT 3893 3895 3891
CONNECT 3894 3896 3892
CONNECT 3895 3893 3896
CONNECT 3896 3895 3897 3894
CONNECT 3897 3898 3896
CONNECT 3898 3897
CONNECT 3899 3901 3889 3900
CONNECT 3900 3899
CONNECT 3901 3902 3903 3899
CONNECT 3902 3901
CONNECT 3903 3904 3901 3908
CONNECT 3904 3905 3903
CONNECT 3905 3907 3904 3906
CONNECT 3906 3905
CONNECT 3907 3905
CONNECT 3908 3909 3903 3910
CONNECT 3909 3908
CONNECT 3910 3908 3911 3912
CONNECT 3911 3915 3910 3913
CONNECT 3912 3910 3914
CONNECT 3913 3911 3914
CONNECT 3914 3912 3913
CONNECT 3915 3917 3916 3911
CONNECT 3916 3915
CONNECT 3917 3919 3918 3915
CONNECT 3918 3917
CONNECT 3919 3920 3924 3917
CONNECT 3920 3923 3921 3919
CONNECT 3921 3920 3922

CONNECT 3922 3921
CONNECT 3923 3920
CONNECT 3924 3925 3919 3926
CONNECT 3925 3924
CONNECT 3926 3924 3928 3927
CONNECT 3927 3926
CONNECT 3928 3929 3926 3934
CONNECT 3929 3930 3928
CONNECT 3930 3931 3929
CONNECT 3931 3933 3930 3932
CONNECT 3932 3931
CONNECT 3933 3931
CONNECT 3934 3928 3936 3935
CONNECT 3935 3934
CONNECT 3936 3937 3934 3938
CONNECT 3937 3936
CONNECT 3938 3936 3939
CONNECT 3939 3940 3938 3941
CONNECT 3940 3939
CONNECT 3941 3939 3943 3942
CONNECT 3942 3941
CONNECT 3943 3941 3944 3948
CONNECT 3944 3945 3943
CONNECT 3945 3946 3944
CONNECT 3946 3947 3945
CONNECT 3947 3946
CONNECT 3948 3943 3950 3949
CONNECT 3949 3948
CONNECT 3950 3951 3948 3952
CONNECT 3951 3950
CONNECT 3952 3950 3953 3956
CONNECT 3953 3954 3952 3955
CONNECT 3954 3953
CONNECT 3955 3953
CONNECT 3956 3957 3952 3958
CONNECT 3957 3956
CONNECT 3958 3956 3959 3960
CONNECT 3959 3958
CONNECT 3960 3958 3961 3964
CONNECT 3961 3960 3962
CONNECT 3962 3961 3963
CONNECT 3963 3962
CONNECT 3964 3960 3966 3965
CONNECT 3965 3964
CONNECT 3966 3967 3964 3968
CONNECT 3967 3966
CONNECT 3968 3966 3969 3972
CONNECT 3969 3971 3968 3970
CONNECT 3970 3969
CONNECT 3971 3969
CONNECT 3972 3968 3973 3974
CONNECT 3973 3972
CONNECT 3974 3972 3975 3976
CONNECT 3975 3974
CONNECT 3976 3974 3981 3977
CONNECT 3977 3976 3978
CONNECT 3978 3977 3980 3979
CONNECT 3979 3978
CONNECT 3980 3978
CONNECT 3981 3983 3982 3976
CONNECT 3982 3981
CONNECT 3983 3985 3981 3984
CONNECT 3984 3983
CONNECT 3985 3986 3983
CONNECT 3986 3987 3988 3985
CONNECT 3987 3986
CONNECT 3988 3990 3986 3989
CONNECT 3989 3988
CONNECT 3990 3998 3991 3988
CONNECT 3991 3990 3992
CONNECT 3992 3991 3993
CONNECT 3993 3995 3992 3994
CONNECT 3994 3993
CONNECT 3995 3997 3996 3993

CONNECT 3996 3995
CONNECT 3997 3995
CONNECT 3998 4000 3999 3990
CONNECT 3999 3998
CONNECT 4000 4002 4001 3998
CONNECT 4001 4000
CONNECT 4002 4003 4007 4000
CONNECT 4003 4004 4002
CONNECT 4004 4006 4005 4003
CONNECT 4005 4004
CONNECT 4006 4004
CONNECT 4007 4009 4008 4002
CONNECT 4008 4007
CONNECT 4009 4011 4010 4007
CONNECT 4010 4009
CONNECT 4011 4016 4012 4009
CONNECT 4012 4014 4013 4011
CONNECT 4013 4015 4012
CONNECT 4014 4012
CONNECT 4015 4013
CONNECT 4016 4018 4017 4011
CONNECT 4017 4016
CONNECT 4018 4020 4019 4016
CONNECT 4019 4018
CONNECT 4020 4021 4033 4018
CONNECT 4021 4022 4020
CONNECT 4022 4023 4021
CONNECT 4023 4024 4022
CONNECT 4024 4026 4025 4023
CONNECT 4025 4024
CONNECT 4026 4030 4027 4024
CONNECT 4027 4028 4026 4029
CONNECT 4028 4027
CONNECT 4029 4027
CONNECT 4030 4031 4032 4026
CONNECT 4031 4030
CONNECT 4032 4030
CONNECT 4033 4034 4020 4035
CONNECT 4034 4033
CONNECT 4035 4033 4037 4036
CONNECT 4036 4035
CONNECT 4037 4035 4042 4038
CONNECT 4038 4037 4039 4041
CONNECT 4039 4038 4040
CONNECT 4040 4039
CONNECT 4041 4038
CONNECT 4042 4043 4037 4044
CONNECT 4043 4042
CONNECT 4044 4042 4045 4046
CONNECT 4045 4044
CONNECT 4046 4051 4044 4047
CONNECT 4047 4046 4049 4048
CONNECT 4048 4047 4050
CONNECT 4049 4047
CONNECT 4050 4048
CONNECT 4051 4052 4053 4046
CONNECT 4052 4051
CONNECT 4053 4055 4051 4054
CONNECT 4054 4053
CONNECT 4055 4062 4056 4053
CONNECT 4056 4057 4055
CONNECT 4057 4059 4058 4056
CONNECT 4058 4057
CONNECT 4059 4060 4061 4057
CONNECT 4060 4059
CONNECT 4061 4059
CONNECT 4062 4064 4055 4063
CONNECT 4063 4062
CONNECT 4064 4065 4066 4062
CONNECT 4065 4064
CONNECT 4066 4067 4064 4070
CONNECT 4067 4069 4068 4066
CONNECT 4068 4067
CONNECT 4069 4067

CONECT 4070 4066 4072 4071
CONECT 4071 4070
CONECT 4072 4073 4070 4074
CONECT 4073 4072
CONECT 4074 4072 4075 4087
CONECT 4075 4074 4076
CONECT 4076 4075 4077
CONECT 4077 4078 4076
CONECT 4078 4079 4080 4077
CONECT 4079 4078
CONECT 4080 4084 4078 4081
CONECT 4081 4080 4082 4083
CONECT 4082 4081
CONECT 4083 4081
CONECT 4084 4086 4085 4080
CONECT 4085 4084
CONECT 4086 4084
CONECT 4087 4074 4089 4088
CONECT 4088 4087
CONECT 4089 4090 4087 4091
CONECT 4090 4089
CONECT 4091 4089 4092 4099
CONECT 4092 4091 4093
CONECT 4093 4092 4094 4095
CONECT 4094 4093 4096
CONECT 4095 4093 4097
CONECT 4096 4094 4098
CONECT 4097 4095 4098
CONECT 4098 4096 4097
CONECT 4099 4101 4091 4100
CONECT 4100 4099
CONECT 4101 4102 4103 4099
CONECT 4102 4101
CONECT 4103 4104 4101 4108
CONECT 4104 4105 4103
CONECT 4105 4106 4104 4107
CONECT 4106 4105
CONECT 4107 4105
CONECT 4108 4110 4103 4109
CONECT 4109 4108
CONECT 4110 4111 4112 4108
CONECT 4111 4110
CONECT 4112 4113 4110 4125
CONECT 4113 4114 4112
CONECT 4114 4115 4113
CONECT 4115 4116 4114
CONECT 4116 4118 4117 4115
CONECT 4117 4116
CONECT 4118 4122 4119 4116
CONECT 4119 4121 4118 4120
CONECT 4120 4119
CONECT 4121 4119
CONECT 4122 4124 4123 4118
CONECT 4123 4122
CONECT 4124 4122
CONECT 4125 4112 4127 4126
CONECT 4126 4125
CONECT 4127 4128 4125 4129
CONECT 4128 4127
CONECT 4129 4127 4130 4135
CONECT 4130 4131 4129
CONECT 4131 4132 4130
CONECT 4132 4134 4131 4133
CONECT 4133 4132
CONECT 4134 4132
CONECT 4135 4129 4137 4136
CONECT 4136 4135
CONECT 4137 4138 4135 4139
CONECT 4138 4137
CONECT 4139 4137 4140 4144
CONECT 4140 4141 4139 4142
CONECT 4141 4140 4143
CONECT 4142 4140
CONECT 4143 4141

CONNECT 4144 4146 4139 4145
CONNECT 4145 4144
CONNECT 4146 4147 4148 4144
CONNECT 4147 4146
CONNECT 4148 4149 4146 4153
CONNECT 4149 4150 4151 4148
CONNECT 4150 4152 4149
CONNECT 4151 4149
CONNECT 4152 4150
CONNECT 4153 4154 4148 4155
CONNECT 4154 4153
CONNECT 4155 4153 4157 4156
CONNECT 4156 4155
CONNECT 4157 4158 4155
CONNECT 4158 4160 4159 4157
CONNECT 4159 4158
CONNECT 4160 4162 4161 4158
CONNECT 4161 4160
CONNECT 4162 4163 4166 4160
CONNECT 4163 4164 4165 4162
CONNECT 4164 4163
CONNECT 4165 4163
CONNECT 4166 4167 4162 4168
CONNECT 4167 4166
CONNECT 4168 4166 4170 4169
CONNECT 4169 4168
CONNECT 4170 4174 4168 4171
CONNECT 4171 4170 4172 4173
CONNECT 4172 4171
CONNECT 4173 4171
CONNECT 4174 4176 4175 4170
CONNECT 4175 4174
CONNECT 4176 4178 4177 4174
CONNECT 4177 4176
CONNECT 4178 4179 4182 4176
CONNECT 4179 4180 4178
CONNECT 4180 4181 4179
CONNECT 4181 4180
CONNECT 4182 4184 4178 4183
CONNECT 4183 4182
CONNECT 4184 4185 4186 4182
CONNECT 4185 4184
CONNECT 4186 4187 4184 4194
CONNECT 4187 4188 4186
CONNECT 4188 4189 4187
CONNECT 4189 4191 4190 4188
CONNECT 4190 4189
CONNECT 4191 4193 4192 4189
CONNECT 4192 4191
CONNECT 4193 4191
CONNECT 4194 4196 4186 4195
CONNECT 4195 4194
CONNECT 4196 4197 4198 4194
CONNECT 4197 4196
CONNECT 4198 4199 4196 4204
CONNECT 4199 4200 4198
CONNECT 4200 4199 4201
CONNECT 4201 4203 4200 4202
CONNECT 4202 4201
CONNECT 4203 4201
CONNECT 4204 4198 4205 4206
CONNECT 4205 4204
CONNECT 4206 4204 4208 4207
CONNECT 4207 4211 4206 4209
CONNECT 4208 4206 4210
CONNECT 4209 4207 4210
CONNECT 4210 4208 4209
CONNECT 4211 4213 4212 4207
CONNECT 4212 4211
CONNECT 4213 4215 4214 4211
CONNECT 4214 4213
CONNECT 4215 4216 4219 4213
CONNECT 4216 4218 4217 4215
CONNECT 4217 4216

CONNECT 4218 4216
CONNECT 4219 4215 4221 4220
CONNECT 4220 4219
CONNECT 4221 4222 4219 4223
CONNECT 4222 4221
CONNECT 4223 4228 4221 4224
CONNECT 4224 4223 4225
CONNECT 4225 4224 4227 4226
CONNECT 4226 4225
CONNECT 4227 4225
CONNECT 4228 4229 4230 4223
CONNECT 4229 4228
CONNECT 4230 4232 4228 4231
CONNECT 4231 4230
CONNECT 4232 4233 4240 4230
CONNECT 4233 4234 4232
CONNECT 4234 4235 4233 4236
CONNECT 4235 4237 4234
CONNECT 4236 4234 4238
CONNECT 4237 4235 4239
CONNECT 4238 4239 4236
CONNECT 4239 4237 4238
CONNECT 4240 4242 4232 4241
CONNECT 4241 4240
CONNECT 4242 4243 4244 4240
CONNECT 4243 4242
CONNECT 4244 4245 4242 4246
CONNECT 4245 4244
CONNECT 4246 4247 4244 4248
CONNECT 4247 4246
CONNECT 4248 4246 4249 4250
CONNECT 4249 4248
CONNECT 4250 4248 4251 4255
CONNECT 4251 4250 4252 4254
CONNECT 4252 4253 4251
CONNECT 4253 4252
CONNECT 4254 4251
CONNECT 4255 4250 4256 4257
CONNECT 4256 4255
CONNECT 4257 4255 4258 4259
CONNECT 4258 4257
CONNECT 4259 4257 4260 4264
CONNECT 4260 4261 4259 4263
CONNECT 4261 4262 4260
CONNECT 4262 4261
CONNECT 4263 4260
CONNECT 4264 4265 4259 4266
CONNECT 4265 4264
CONNECT 4266 4264 4267 4268
CONNECT 4267 4266
CONNECT 4268 4266 4273 4269
CONNECT 4269 4268 4270 4271
CONNECT 4270 4272 4269
CONNECT 4271 4269
CONNECT 4272 4270
CONNECT 4273 4274 4268 4275
CONNECT 4274 4273
CONNECT 4275 4273 4276 4277
CONNECT 4276 4275
CONNECT 4277 4279 4275 4278
CONNECT 4278 4277
CONNECT 4279 4281 4280 4277
CONNECT 4280 4279
CONNECT 4281 4283 4282 4279
CONNECT 4282 4281
CONNECT 4283 4284 4289 4281
CONNECT 4284 4285 4283
CONNECT 4285 4286 4284
CONNECT 4286 4288 4287 4285
CONNECT 4287 4286
CONNECT 4288 4286
CONNECT 4289 4290 4291 4283
CONNECT 4290 4289
CONNECT 4291 4293 4289 4292

CONNECT 4292 4291
CONNECT 4293 4294 4291 4300
CONNECT 4294 4295 4293
CONNECT 4295 4296 4297 4294
CONNECT 4296 4295
CONNECT 4297 4299 4295 4298
CONNECT 4298 4297
CONNECT 4299 4297
CONNECT 4300 4293 4301 4302
CONNECT 4301 4300
CONNECT 4302 4300 4303 4304
CONNECT 4303 4302
CONNECT 4304 4302 4309 4305
CONNECT 4305 4304 4307 4306
CONNECT 4306 4305 4308
CONNECT 4307 4305
CONNECT 4308 4306
CONNECT 4309 4311 4310 4304
CONNECT 4310 4309
CONNECT 4311 4313 4312 4309
CONNECT 4312 4311
CONNECT 4313 4326 4314 4311
CONNECT 4314 4315 4313
CONNECT 4315 4316 4314
CONNECT 4316 4317 4315
CONNECT 4317 4318 4316 4319
CONNECT 4318 4317
CONNECT 4319 4317 4323 4320
CONNECT 4320 4319 4321 4322
CONNECT 4321 4320
CONNECT 4322 4320
CONNECT 4323 4324 4325 4319
CONNECT 4324 4323
CONNECT 4325 4323
CONNECT 4326 4328 4327 4313
CONNECT 4327 4326
CONNECT 4328 4330 4329 4326
CONNECT 4329 4328
CONNECT 4330 4331 4340 4328
CONNECT 4331 4332 4330
CONNECT 4332 4334 4333 4331
CONNECT 4333 4335 4332
CONNECT 4334 4336 4332
CONNECT 4335 4337 4333
CONNECT 4336 4337 4334
CONNECT 4337 4338 4336 4335
CONNECT 4338 4339 4337
CONNECT 4339 4338
CONNECT 4340 4341 4330 4342
CONNECT 4341 4340
CONNECT 4342 4340 4344 4343
CONNECT 4343 4342
CONNECT 4344 4342 4345
CONNECT 4345 4346 4344 4347
CONNECT 4346 4345
CONNECT 4347 4345 4349 4348
CONNECT 4348 4347
CONNECT 4349 4362 4347 4350
CONNECT 4350 4349 4351
CONNECT 4351 4350 4352
CONNECT 4352 4351 4353
CONNECT 4353 4352 4354 4355
CONNECT 4354 4353
CONNECT 4355 4353 4356 4359
CONNECT 4356 4358 4355 4357
CONNECT 4357 4356
CONNECT 4358 4356
CONNECT 4359 4355 4361 4360
CONNECT 4360 4359
CONNECT 4361 4359
CONNECT 4362 4364 4349 4363
CONNECT 4363 4362
CONNECT 4364 4365 4366 4362
CONNECT 4365 4364

CONNECT 4366 4367 4364 4372
CONNECT 4367 4368 4366
CONNECT 4368 4369 4367
CONNECT 4369 4371 4368 4370
CONNECT 4370 4369
CONNECT 4371 4369
CONNECT 4372 4366 4374 4373
CONNECT 4373 4372
CONNECT 4374 4372 4375 4376
CONNECT 4375 4374
CONNECT 4376 4374 4377 4383
CONNECT 4377 4376 4378
CONNECT 4378 4380 4377 4379
CONNECT 4379 4378
CONNECT 4380 4382 4381 4378
CONNECT 4381 4380
CONNECT 4382 4380
CONNECT 4383 4376 4384 4385
CONNECT 4384 4383
CONNECT 4385 4383 4386 4387
CONNECT 4386 4385
CONNECT 4387 4385 4388 4391
CONNECT 4388 4389 4387 4390
CONNECT 4389 4388
CONNECT 4390 4388
CONNECT 4391 4387 4392 4393
CONNECT 4392 4391
CONNECT 4393 4391 4394 4395
CONNECT 4394 4393
CONNECT 4395 4393 4400 4396
CONNECT 4396 4395 4397 4399
CONNECT 4397 4396 4398
CONNECT 4398 4397
CONNECT 4399 4396
CONNECT 4400 4395 4402 4401
CONNECT 4401 4400
CONNECT 4402 4403 4400 4404
CONNECT 4403 4402
CONNECT 4404 4402 4405 4409
CONNECT 4405 4406 4404
CONNECT 4406 4407 4405
CONNECT 4407 4406 4408
CONNECT 4408 4407
CONNECT 4409 4404 4410 4411
CONNECT 4410 4409
CONNECT 4411 4409 4412 4413
CONNECT 4412 4411
CONNECT 4413 4411 4418 4414
CONNECT 4414 4413 4415
CONNECT 4415 4414 4416 4417
CONNECT 4416 4415
CONNECT 4417 4415
CONNECT 4418 4420 4413 4419
CONNECT 4419 4418
CONNECT 4420 4421 4422 4418
CONNECT 4421 4420
CONNECT 4422 4423 4428 4420
CONNECT 4423 4424 4422
CONNECT 4424 4425 4423
CONNECT 4425 4424 4427 4426
CONNECT 4426 4425
CONNECT 4427 4425
CONNECT 4428 4430 4429 4422
CONNECT 4429 4428
CONNECT 4430 4432 4431 4428
CONNECT 4431 4430
CONNECT 4432 4433 4430 4437
CONNECT 4433 4434 4435 4432
CONNECT 4434 4436 4433
CONNECT 4435 4433
CONNECT 4436 4434
CONNECT 4437 4432 4438 4439
CONNECT 4438 4437
CONNECT 4439 4437 4440 4441

CONNECT 4440 4439
CONNECT 4441 4439 4447 4442
CONNECT 4442 4441 4443
CONNECT 4443 4442 4444
CONNECT 4444 4443 4445 4446
CONNECT 4445 4444
CONNECT 4446 4444
CONNECT 4447 4441 4449 4448
CONNECT 4448 4447
CONNECT 4449 4450 4447 4451
CONNECT 4450 4449
CONNECT 4451 4460 4449 4452
CONNECT 4452 4451 4453
CONNECT 4453 4452 4454
CONNECT 4454 4453 4455
CONNECT 4455 4454 4456
CONNECT 4456 4455 4459 4457 4458
CONNECT 4456
CONNECT 4457 4456
CONNECT 4458 4456
CONNECT 4459 4456
CONNECT 4460 4462 4461 4451
CONNECT 4461 4460
CONNECT 4462 4464 4463 4460
CONNECT 4463 4462
CONNECT 4464 4465 4466 4462
CONNECT 4465 4464
CONNECT 4466 4468 4464 4467
CONNECT 4467 4466
CONNECT 4468 4469 4470 4466
CONNECT 4469 4468
CONNECT 4470 4468 4471 4474
CONNECT 4471 4473 4470 4472
CONNECT 4472 4471
CONNECT 4473 4471
CONNECT 4474 4470 4475 4476
CONNECT 4475 4474
CONNECT 4476 4474 4477 4478
CONNECT 4477 4476
CONNECT 4478 4476 4487 4479
CONNECT 4479 4478 4480
CONNECT 4480 4479 4481
CONNECT 4481 4480 4482
CONNECT 4482 4481 4483
CONNECT 4483 4485 4482 4484 4486
CONNECT 4483
CONNECT 4484 4483
CONNECT 4485 4483
CONNECT 4486 4483
CONNECT 4487 4489 4478 4488
CONNECT 4488 4487
CONNECT 4489 4490 4491 4487
CONNECT 4490 4489
CONNECT 4491 4497 4492 4489
CONNECT 4492 4493 4491
CONNECT 4493 4494 4492
CONNECT 4494 4496 4495 4493
CONNECT 4495 4494
CONNECT 4496 4494
CONNECT 4497 4499 4498 4491
CONNECT 4498 4497
CONNECT 4499 4501 4500 4497
CONNECT 4500 4499
CONNECT 4501 4502 4503 4499
CONNECT 4502 4501
CONNECT 4503 4504 4501 4505
CONNECT 4504 4503
CONNECT 4505 4503 4506 4507
CONNECT 4506 4505
CONNECT 4507 4514 4505 4508
CONNECT 4508 4509 4507
CONNECT 4509 4510 4511 4508
CONNECT 4510 4509
CONNECT 4511 4513 4509 4512

CONECT 4512 4511
CONECT 4513 4511
CONECT 4514 4516 4515 4507
CONECT 4515 4514
CONECT 4516 4518 4517 4514
CONECT 4517 4516
CONECT 4518 4519 4520 4516
CONECT 4519 4518
CONECT 4520 4518 4521 4522
CONECT 4521 4520
CONECT 4522 4520 4523 4524
CONECT 4523 4522
CONECT 4524 4522 4534 4525
CONECT 4525 4524 4526
CONECT 4526 4525 4527 4528
CONECT 4527 4529 4526
CONECT 4528 4526 4530
CONECT 4529 4527 4531
CONECT 4530 4531 4528
CONECT 4531 4529 4532 4530
CONECT 4532 4531 4533
CONECT 4533 4532
CONECT 4534 4524 4535 4536
CONECT 4535 4534
CONECT 4536 4534 4537 4538
CONECT 4537 4536
CONECT 4538 4543 4536 4539
CONECT 4539 4540 4538
CONECT 4540 4541 4542 4539
CONECT 4541 4540
CONECT 4542 4540
CONECT 4543 4545 4544 4538
CONECT 4544 4543
CONECT 4545 4547 4546 4543
CONECT 4546 4545
CONECT 4547 4548 4555 4545
CONECT 4548 4549 4547
CONECT 4549 4550 4551 4548
CONECT 4550 4552 4549
CONECT 4551 4553 4549
CONECT 4552 4554 4550
CONECT 4553 4554 4551
CONECT 4554 4552 4553
CONECT 4555 4556 4557 4547
CONECT 4556 4555
CONECT 4557 4559 4555 4558
CONECT 4558 4557
CONECT 4559 4560 4557 4564
CONECT 4560 4562 4559 4561
CONECT 4561 4560 4563
CONECT 4562 4560
CONECT 4563 4561
CONECT 4564 4559 4565 4566
CONECT 4565 4564
CONECT 4566 4564 4567 4568
CONECT 4567 4566
CONECT 4568 4566 4573 4569
CONECT 4569 4568 4570
CONECT 4570 4571 4569
CONECT 4571 4570 4572
CONECT 4572 4571
CONECT 4573 4574 4575 4568
CONECT 4574 4573
CONECT 4575 4573 4576 4577
CONECT 4576 4575
CONECT 4577 4586 4575 4578
CONECT 4578 4577 4579
CONECT 4579 4580 4578
CONECT 4580 4581 4579
CONECT 4581 4580 4582
CONECT 4582 4584 4581 4583 4585
CONECT 4582
CONECT 4583 4582
CONECT 4584 4582

CONNECT 4585 4582
CONNECT 4586 4588 4587 4577
CONNECT 4587 4586
CONNECT 4588 4590 4589 4586
CONNECT 4589 4588
CONNECT 4590 4591 4595 4588
CONNECT 4591 4592 4590
CONNECT 4592 4594 4593 4591
CONNECT 4593 4592
CONNECT 4594 4592
CONNECT 4595 4597 4590 4596
CONNECT 4596 4595
CONNECT 4597 4599 4598 4595
CONNECT 4598 4600 4602 4597
CONNECT 4599 4601 4597
CONNECT 4600 4601 4598
CONNECT 4601 4600 4599
CONNECT 4602 4603 4604 4598
CONNECT 4603 4602
CONNECT 4604 4606 4602 4605
CONNECT 4605 4604
CONNECT 4606 4610 4615 4604
CONNECT 4607 4614 4609 4608
CONNECT 4608 4607
CONNECT 4609 4613 4607 4610
CONNECT 4610 4609 4606
CONNECT 4611 4612 4614 4613
CONNECT 4612 4611
CONNECT 4613 4611 4609
CONNECT 4614 4611 4607
CONNECT 4615 4606 4616 4617
CONNECT 4616 4615
CONNECT 4617 4615 4618 4619
CONNECT 4618 4617
CONNECT 4619 4628 4617 4620
CONNECT 4620 4619 4621
CONNECT 4621 4620 4622
CONNECT 4622 4621 4623
CONNECT 4623 4622 4624
CONNECT 4624 4623 4626 4627 4625
CONNECT 4624
CONNECT 4625 4624
CONNECT 4626 4624
CONNECT 4627 4624
CONNECT 4628 4629 4630 4619
CONNECT 4629 4628
CONNECT 4630 4632 4628 4631
CONNECT 4631 4630
CONNECT 4632 4640 4633 4630
CONNECT 4633 4632 4634
CONNECT 4634 4633 4635 4636
CONNECT 4635 4634 4637
CONNECT 4636 4634 4638
CONNECT 4637 4635 4639
CONNECT 4638 4636 4639
CONNECT 4639 4637 4638
CONNECT 4640 4641 4642 4632
CONNECT 4641 4640
CONNECT 4642 4644 4640 4643
CONNECT 4643 4642
CONNECT 4644 4649 4645 4642
CONNECT 4645 4644 4646
CONNECT 4646 4645 4647 4648
CONNECT 4647 4646
CONNECT 4648 4646
CONNECT 4649 4650 4651 4644
CONNECT 4650 4649
CONNECT 4651 4653 4649 4652
CONNECT 4652 4651
CONNECT 4653 4658 4654 4651
CONNECT 4654 4657 4653 4655
CONNECT 4655 4654 4656
CONNECT 4656 4655
CONNECT 4657 4654

CONECT 4658 4660 4659 4653
CONECT 4659 4658
CONECT 4660 4662 4661 4658
CONECT 4661 4660
CONECT 4662 4663 4667 4660
CONECT 4663 4664 4662
CONECT 4664 4666 4663 4665
CONECT 4665 4664
CONECT 4666 4664
CONECT 4667 4669 4662 4668
CONECT 4668 4667
CONECT 4669 4670 4671 4667
CONECT 4670 4669
CONECT 4671 4675 4672 4669
CONECT 4672 4673 4671 4674
CONECT 4673 4672
CONECT 4674 4672
CONECT 4675 4676 4677 4671
CONECT 4676 4675
CONECT 4677 4679 4675 4678
CONECT 4678 4677
CONECT 4679 4680 4677
CONECT 4680 4682 4681 4679
CONECT 4681 4680
CONECT 4682 4684 4683 4680
CONECT 4683 4682
CONECT 4684 4685 4690 4682
CONECT 4685 4686 4684
CONECT 4686 4687 4685
CONECT 4687 4688 4689 4686
CONECT 4688 4687
CONECT 4689 4687
CONECT 4690 4691 4684 4692
CONECT 4691 4690
CONECT 4692 4690 4694 4693
CONECT 4693 4692
CONECT 4694 4695 4692 4707
CONECT 4695 4696 4694
CONECT 4696 4697 4695
CONECT 4697 4696 4698
CONECT 4698 4697 4700 4699
CONECT 4699 4698
CONECT 4700 4701 4698 4704
CONECT 4701 4703 4702 4700
CONECT 4702 4701
CONECT 4703 4701
CONECT 4704 4700 4705 4706
CONECT 4705 4704
CONECT 4706 4704
CONECT 4707 4694 4709 4708
CONECT 4708 4707
CONECT 4709 4710 4707 4711
CONECT 4710 4709
CONECT 4711 4709 4712
CONECT 4712 4714 4711 4713
CONECT 4713 4712
CONECT 4714 4715 4716 4712
CONECT 4715 4714
CONECT 4716 4717 4714 4718
CONECT 4717 4716
CONECT 4718 4716 4719 4720
CONECT 4719 4718
CONECT 4720 4718 4721 4722
CONECT 4721 4720
CONECT 4722 4720 4723 4730
CONECT 4723 4722 4724
CONECT 4724 4723 4725
CONECT 4725 4726 4724 4727
CONECT 4726 4725
CONECT 4727 4725 4728 4729
CONECT 4728 4727
CONECT 4729 4727
CONECT 4730 4722 4732 4731
CONECT 4731 4730

CONNECT 4732 4733 4730 4734
CONNECT 4733 4732
CONNECT 4734 4732 4739 4735
CONNECT 4735 4734 4736
CONNECT 4736 4738 4735 4737
CONNECT 4737 4736
CONNECT 4738 4736
CONNECT 4739 4740 4734 4741
CONNECT 4740 4739
CONNECT 4741 4739 4743 4742
CONNECT 4742 4741
CONNECT 4743 4747 4741 4744
CONNECT 4744 4743 4745
CONNECT 4745 4744 4746
CONNECT 4746 4745
CONNECT 4747 4749 4743 4748
CONNECT 4748 4747
CONNECT 4749 4751 4750 4747
CONNECT 4750 4749
CONNECT 4751 4749 4752
CONNECT 4752 4751 4753 4754
CONNECT 4753 4752
CONNECT 4754 4752 4755 4756
CONNECT 4755 4754
CONNECT 4756 4754 4757
CONNECT 4757 4756 4759 4758
CONNECT 4758 4757
CONNECT 4759 4760 4757 4761
CONNECT 4760 4759
CONNECT 4761 4769 4759 4762
CONNECT 4762 4761 4763
CONNECT 4763 4762 4764
CONNECT 4764 4765 4763 4766
CONNECT 4765 4764
CONNECT 4766 4764 4768 4767
CONNECT 4767 4766
CONNECT 4768 4766
CONNECT 4769 4771 4770 4761
CONNECT 4770 4769
CONNECT 4771 4773 4772 4769
CONNECT 4772 4771
CONNECT 4773 4774 4782 4771
CONNECT 4774 4775 4773
CONNECT 4775 4776 4774
CONNECT 4776 4777 4775
CONNECT 4777 4778 4776
CONNECT 4778 4779 4781 4780 4777
CONNECT 4778
CONNECT 4779 4778
CONNECT 4780 4778
CONNECT 4781 4778
CONNECT 4782 4773 4783 4784
CONNECT 4783 4782
CONNECT 4784 4782 4785 4786
CONNECT 4785 4784
CONNECT 4786 4784 4787 4794
CONNECT 4787 4786 4788
CONNECT 4788 4789 4787
CONNECT 4789 4791 4790 4788
CONNECT 4790 4789
CONNECT 4791 4793 4792 4789
CONNECT 4792 4791
CONNECT 4793 4791
CONNECT 4794 4786 4795 4796
CONNECT 4795 4794
CONNECT 4796 4794 4797 4798
CONNECT 4797 4796
CONNECT 4798 4796 4811 4799
CONNECT 4799 4798 4800
CONNECT 4800 4799 4801
CONNECT 4801 4800 4802
CONNECT 4802 4801 4803 4804
CONNECT 4803 4802
CONNECT 4804 4802 4805 4808

CONECT 4805 4806 4804 4807
CONECT 4806 4805
CONECT 4807 4805
CONECT 4808 4804 4809 4810
CONECT 4809 4808
CONECT 4810 4808
CONECT 4811 4813 4812 4798
CONECT 4812 4811
CONECT 4813 4815 4814 4811
CONECT 4814 4813
CONECT 4815 4816 4820 4813
CONECT 4816 4818 4817 4815
CONECT 4817 4819 4816
CONECT 4818 4816
CONECT 4819 4817
CONECT 4820 4822 4821 4815
CONECT 4821 4820
CONECT 4822 4824 4823 4820
CONECT 4823 4822
CONECT 4824 4825 4822 4826
CONECT 4825 4824
CONECT 4826 4824 4827 4828
CONECT 4827 4826
CONECT 4828 4826 4829 4830
CONECT 4829 4828
CONECT 4830 4828 4835 4831
CONECT 4831 4830 4832 4833
CONECT 4832 4831 4834
CONECT 4833 4831
CONECT 4834 4832
CONECT 4835 4830 4836 4837
CONECT 4836 4835
CONECT 4837 4835 4838 4839
CONECT 4838 4837
CONECT 4839 4841 4837 4840
CONECT 4840 4839
CONECT 4841 4843 4842 4839
CONECT 4842 4841
CONECT 4843 4845 4844 4841
CONECT 4844 4843
CONECT 4845 4846 4858 4843
CONECT 4846 4847 4845
CONECT 4847 4848 4846
CONECT 4848 4849 4847
CONECT 4849 4851 4848 4850
CONECT 4850 4849
CONECT 4851 4852 4855 4849
CONECT 4852 4854 4853 4851
CONECT 4853 4852
CONECT 4854 4852
CONECT 4855 4857 4851 4856
CONECT 4856 4855
CONECT 4857 4855
CONECT 4858 4860 4845 4859
CONECT 4859 4858
CONECT 4860 4861 4862 4858
CONECT 4861 4860
CONECT 4862 4863 4860 4864
CONECT 4863 4862
CONECT 4864 4862 4865 4866
CONECT 4865 4864
CONECT 4866 4864 4867 4868
CONECT 4867 4866
CONECT 4868 4866 4873 4869
CONECT 4869 4868 4870
CONECT 4870 4869 4872 4871
CONECT 4871 4870
CONECT 4872 4870
CONECT 4873 4875 4868 4874
CONECT 4874 4873
CONECT 4875 4876 4877 4873
CONECT 4876 4875
CONECT 4877 4881 4878 4875
CONECT 4878 4879 4877 4880

CONNECT 4879 4878
CONNECT 4880 4878
CONNECT 4881 4883 4882 4877
CONNECT 4882 4881
CONNECT 4883 4885 4884 4881
CONNECT 4884 4883
CONNECT 4885 4886 4883 4898
CONNECT 4886 4887 4885
CONNECT 4887 4888 4886
CONNECT 4888 4889 4887
CONNECT 4889 4891 4890 4888
CONNECT 4890 4889
CONNECT 4891 4895 4892 4889
CONNECT 4892 4894 4891 4893
CONNECT 4893 4892
CONNECT 4894 4892
CONNECT 4895 4897 4896 4891
CONNECT 4896 4895
CONNECT 4897 4895
CONNECT 4898 4885 4899 4900
CONNECT 4899 4898
CONNECT 4900 4898 4901 4902
CONNECT 4901 4900
CONNECT 4902 4900 4909 4903
CONNECT 4903 4902 4904
CONNECT 4904 4905 4903 4906
CONNECT 4905 4904
CONNECT 4906 4904 4907 4908
CONNECT 4907 4906
CONNECT 4908 4906
CONNECT 4909 4911 4910 4902
CONNECT 4910 4909
CONNECT 4911 4912 4913 4909
CONNECT 4912 4914 4911 4916
CONNECT 4913 4915 4911
CONNECT 4914 4915 4912
CONNECT 4915 4914 4913
CONNECT 4916 4912 4918 4917
CONNECT 4917 4916
CONNECT 4918 4919 4916 4920
CONNECT 4919 4918
CONNECT 4920 4918 4921 4929
CONNECT 4921 4922 4920
CONNECT 4922 4923 4921
CONNECT 4923 4924 4922
CONNECT 4924 4923 4925
CONNECT 4925 4924 4927 4926 4928
CONNECT 4925
CONNECT 4926 4925
CONNECT 4927 4925
CONNECT 4928 4925
CONNECT 4929 4931 4920 4930
CONNECT 4930 4929
CONNECT 4931 4932 4933 4929
CONNECT 4932 4931
CONNECT 4933 4934 4938 4931
CONNECT 4934 4936 4935 4933
CONNECT 4935 4937 4934
CONNECT 4936 4934
CONNECT 4937 4935
CONNECT 4938 4939 4940 4933
CONNECT 4939 4938
CONNECT 4940 4942 4938 4941
CONNECT 4941 4940
CONNECT 4942 4947 4940 4943
CONNECT 4943 4942 4944
CONNECT 4944 4946 4943 4945
CONNECT 4945 4944
CONNECT 4946 4944
CONNECT 4947 4949 4948 4942
CONNECT 4948 4947
CONNECT 4949 4951 4950 4947
CONNECT 4950 4949
CONNECT 4951 4952 4956 4949

CONECT 4952 4953 4951
CONECT 4953 4955 4952 4954
CONECT 4954 4953
CONECT 4955 4953
CONECT 4956 4957 4951 4958
CONECT 4957 4956
CONECT 4958 4956 4960 4959
CONECT 4959 4958
CONECT 4960 4965 4958 4961
CONECT 4961 4960 4962
CONECT 4962 4961 4963 4964
CONECT 4963 4962
CONECT 4964 4962
CONECT 4965 4967 4966 4960
CONECT 4966 4965
CONECT 4967 4969 4968 4965
CONECT 4968 4967
CONECT 4969 4970 4974 4967
CONECT 4970 4971 4969
CONECT 4971 4973 4972 4970
CONECT 4972 4971
CONECT 4973 4971
CONECT 4974 4975 4969 4976
CONECT 4975 4974
CONECT 4976 4974 4978 4977
CONECT 4977 4976
CONECT 4978 4979 4976 4984
CONECT 4979 4980 4978
CONECT 4980 4981 4979
CONECT 4981 4983 4982 4980
CONECT 4982 4981
CONECT 4983 4981
CONECT 4984 4978 4985 4986
CONECT 4985 4984
CONECT 4986 4984 4988 4987
CONECT 4987 4986
CONECT 4988 4986 4990 4989
CONECT 4989 4988
CONECT 4990 4988 4991 4992
CONECT 4991 4990
CONECT 4992 4990 4993 4994
CONECT 4993 4992
CONECT 4994 4999 4992 4995
CONECT 4995 4994 4998 4996
CONECT 4996 4995 4997
CONECT 4997 4996
CONECT 4998 4995
CONECT 4999 5001 5000 4994
CONECT 5000 4999
CONECT 5001 5003 5002 4999
CONECT 5002 5001
CONECT 5003 5004 5007 5001
CONECT 5004 5005 5003
CONECT 5005 5006 5004
CONECT 5006 5005
CONECT 5007 5009 5008 5003
CONECT 5008 5007
CONECT 5009 5011 5010 5007
CONECT 5010 5009
CONECT 5011 5012 5009 5013
CONECT 5012 5011
CONECT 5013 5011 5014 5015
CONECT 5014 5013
CONECT 5015 5013 5016 5017
CONECT 5016 5015
CONECT 5017 5015 5018 5022
CONECT 5018 5017 5019
CONECT 5019 5018 5020 5021
CONECT 5020 5019
CONECT 5021 5019
CONECT 5022 5017 5023 5024
CONECT 5023 5022
CONECT 5024 5022 5025 5026
CONECT 5025 5024

CONECT 5026 5024 5027 5031
CONECT 5027 5026 5028
CONECT 5028 5027 5030 5029
CONECT 5029 5028
CONECT 5030 5028
CONECT 5031 5026 5032 5033
CONECT 5032 5031
CONECT 5033 5031 5034 5035
CONECT 5034 5033
CONECT 5035 5033 5036 5040
CONECT 5036 5037 5035 5039
CONECT 5037 5038 5036
CONECT 5038 5037
CONECT 5039 5036
CONECT 5040 5035 5041 5042
CONECT 5041 5040
CONECT 5042 5040 5043 5044
CONECT 5043 5042
CONECT 5044 5042 5050 5045
CONECT 5045 5044 5046
CONECT 5046 5045 5047
CONECT 5047 5046 5049 5048
CONECT 5048 5047
CONECT 5049 5047
CONECT 5050 5052 5044 5051
CONECT 5051 5050
CONECT 5052 5053 5054 5050
CONECT 5053 5052
CONECT 5054 5055 5058 5052
CONECT 5055 5056 5054
CONECT 5056 5057 5055
CONECT 5057 5056
CONECT 5058 5060 5054 5059
CONECT 5059 5058
CONECT 5060 5062 5061 5058
CONECT 5061 5060
CONECT 5062 5063 5060 5068
CONECT 5063 5064 5062
CONECT 5064 5065 5063
CONECT 5065 5066 5067 5064
CONECT 5066 5065
CONECT 5067 5065
CONECT 5068 5062 5069 5070
CONECT 5069 5068
CONECT 5070 5068 5071 5072
CONECT 5071 5070
CONECT 5072 5070 5074 5073
CONECT 5073 5072
CONECT 5074 5072 5076 5075
CONECT 5075 5074
CONECT 5076 5077 5074 5078
CONECT 5077 5076
CONECT 5078 5082 5076 5079
CONECT 5079 5078 5080 5081
CONECT 5080 5079
CONECT 5081 5079
CONECT 5082 5084 5083 5078
CONECT 5083 5082
CONECT 5084 5086 5085 5082
CONECT 5085 5084
CONECT 5086 5087 5090 5084
CONECT 5087 5088 5089 5086
CONECT 5088 5087
CONECT 5089 5087
CONECT 5090 5086 5091 5092
CONECT 5091 5090
CONECT 5092 5090 5093 5094
CONECT 5093 5092
CONECT 5094 5092 5095 5102
CONECT 5095 5094 5096
CONECT 5096 5097 5095
CONECT 5097 5098 5099 5096
CONECT 5098 5097
CONECT 5099 5101 5097 5100

CONECT 5100 5099
CONECT 5101 5099
CONECT 5102 5094 5103 5104
CONECT 5103 5102
CONECT 5104 5102 5105 5106
CONECT 5105 5104
CONECT 5106 5104 5110 5107
CONECT 5107 5106 5109 5108
CONECT 5108 5107
CONECT 5109 5107
CONECT 5110 5112 5106 5111
CONECT 5111 5110
CONECT 5112 5113 5114 5110
CONECT 5113 5112
CONECT 5114 5115 5116 5112
CONECT 5115 5114
CONECT 5116 5118 5117 5114
CONECT 5117 5116
CONECT 5118 5120 5119 5116
CONECT 5119 5118
CONECT 5120 5121 5118 5125
CONECT 5121 5122 5120
CONECT 5122 5123 5124 5121
CONECT 5123 5122
CONECT 5124 5122
CONECT 5125 5120 5126 5127
CONECT 5126 5125
CONECT 5127 5125 5128 5129
CONECT 5128 5127
CONECT 5129 5127 5134 5130
CONECT 5130 5129 5131
CONECT 5131 5132 5133 5130
CONECT 5132 5131
CONECT 5133 5131
CONECT 5134 5129 5135 5136
CONECT 5135 5134
CONECT 5136 5134 5137 5138
CONECT 5137 5136
CONECT 5138 5147 5136 5139
CONECT 5139 5138 5140
CONECT 5140 5139 5141
CONECT 5141 5142 5140
CONECT 5142 5143 5141
CONECT 5143 5144 5142 5146 5145
CONECT 5143
CONECT 5144 5143
CONECT 5145 5143
CONECT 5146 5143
CONECT 5147 5149 5148 5138
CONECT 5148 5147
CONECT 5149 5151 5150 5147
CONECT 5150 5149
CONECT 5151 5152 5153 5149
CONECT 5152 5151
CONECT 5153 5155 5154 5151
CONECT 5154 5153
CONECT 5155 5157 5156 5153
CONECT 5156 5155
CONECT 5157 5158 5155 5170
CONECT 5158 5159 5157
CONECT 5159 5160 5158
CONECT 5160 5159 5161
CONECT 5161 5160 5163 5162
CONECT 5162 5161
CONECT 5163 5164 5161 5167
CONECT 5164 5165 5166 5163
CONECT 5165 5164
CONECT 5166 5164
CONECT 5167 5163 5169 5168
CONECT 5168 5167
CONECT 5169 5167
CONECT 5170 5157 5171 5172
CONECT 5171 5170
CONECT 5172 5170 5173 5174

CONNECT 5173 5172
CONNECT 5174 5172 5183 5175
CONNECT 5175 5174 5176
CONNECT 5176 5177 5175
CONNECT 5177 5178 5176
CONNECT 5178 5177 5179
CONNECT 5179 5178 5180 5181 5182
CONNECT 5179
CONNECT 5180 5179
CONNECT 5181 5179
CONNECT 5182 5179
CONNECT 5183 5184 5174 5185
CONNECT 5184 5183
CONNECT 5185 5183 5187 5186
CONNECT 5186 5185
CONNECT 5187 5188 5185
CONNECT 5188 5190 5189 5187
CONNECT 5189 5188
CONNECT 5190 5192 5191 5188
CONNECT 5191 5190
CONNECT 5192 5193 5205 5190
CONNECT 5193 5194 5192
CONNECT 5194 5195 5193
CONNECT 5195 5194 5196
CONNECT 5196 5195 5197 5198
CONNECT 5197 5196
CONNECT 5198 5196 5199 5202
CONNECT 5199 5201 5198 5200
CONNECT 5200 5199
CONNECT 5201 5199
CONNECT 5202 5198 5204 5203
CONNECT 5203 5202
CONNECT 5204 5202
CONNECT 5205 5207 5206 5192
CONNECT 5206 5205
CONNECT 5207 5209 5208 5205
CONNECT 5208 5207
CONNECT 5209 5214 5210 5207
CONNECT 5210 5213 5211 5209
CONNECT 5211 5210 5212
CONNECT 5212 5211
CONNECT 5213 5210
CONNECT 5214 5215 5216 5209
CONNECT 5215 5214
CONNECT 5216 5218 5214 5217
CONNECT 5217 5216
CONNECT 5218 5223 5219 5216
CONNECT 5219 5218 5220 5222
CONNECT 5220 5219 5221
CONNECT 5221 5220
CONNECT 5222 5219
CONNECT 5223 5225 5224 5218
CONNECT 5224 5223
CONNECT 5225 5227 5226 5223
CONNECT 5226 5225
CONNECT 5227 5228 5232 5225
CONNECT 5228 5230 5229 5227
CONNECT 5229 5231 5228
CONNECT 5230 5228
CONNECT 5231 5229
CONNECT 5232 5233 5234 5227
CONNECT 5233 5232
CONNECT 5234 5232 5236 5235
CONNECT 5235 5234
CONNECT 5236 5240 5234 5237
CONNECT 5237 5236 5239 5238
CONNECT 5238 5237
CONNECT 5239 5237
CONNECT 5240 5242 5241 5236
CONNECT 5241 5240
CONNECT 5242 5244 5243 5240
CONNECT 5243 5242
CONNECT 5244 5245 5249 5242
CONNECT 5245 5246 5247 5244

CONNECT 5246 5248 5245
CONNECT 5247 5245
CONNECT 5248 5246
CONNECT 5249 5250 5244 5251
CONNECT 5250 5249
CONNECT 5251 5249 5253 5252
CONNECT 5252 5251
CONNECT 5253 5251 5255 5254
CONNECT 5254 5253
CONNECT 5255 5257 5253 5256
CONNECT 5256 5255
CONNECT 5257 5258 5259 5255
CONNECT 5258 5257
CONNECT 5259 5263 5257 5268
CONNECT 5260 5267 5261 5262
CONNECT 5261 5260
CONNECT 5262 5266 5260 5263
CONNECT 5263 5262 5259
CONNECT 5264 5265 5267 5266
CONNECT 5265 5264
CONNECT 5266 5264 5262
CONNECT 5267 5264 5260
CONNECT 5268 5259 5269 5270
CONNECT 5269 5268
CONNECT 5270 5268 5271 5272
CONNECT 5271 5270
CONNECT 5272 5270 5285 5273
CONNECT 5273 5272 5274
CONNECT 5274 5275 5273
CONNECT 5275 5276 5274
CONNECT 5276 5278 5275 5277
CONNECT 5277 5276
CONNECT 5278 5279 5282 5276
CONNECT 5279 5280 5281 5278
CONNECT 5280 5279
CONNECT 5281 5279
CONNECT 5282 5283 5278 5284
CONNECT 5283 5282
CONNECT 5284 5282
CONNECT 5285 5272 5287 5286
CONNECT 5286 5285
CONNECT 5287 5288 5285 5289
CONNECT 5288 5287
CONNECT 5289 5287 5290 5294
CONNECT 5290 5291 5289
CONNECT 5291 5293 5292 5290
CONNECT 5292 5291
CONNECT 5293 5291
CONNECT 5294 5289 5296 5295
CONNECT 5295 5294
CONNECT 5296 5297 5294 5298
CONNECT 5297 5296
CONNECT 5298 5296 5299 5302
CONNECT 5299 5300 5298
CONNECT 5300 5301 5299
CONNECT 5301 5300
CONNECT 5302 5304 5298 5303
CONNECT 5303 5302
CONNECT 5304 5305 5306 5302
CONNECT 5305 5304
CONNECT 5306 5307 5304 5311
CONNECT 5307 5308 5310 5306
CONNECT 5308 5309 5307
CONNECT 5309 5308
CONNECT 5310 5307
CONNECT 5311 5313 5306 5312
CONNECT 5312 5311
CONNECT 5313 5314 5315 5311
CONNECT 5314 5313
CONNECT 5315 5316 5313 5319
CONNECT 5316 5317 5318 5315
CONNECT 5317 5316
CONNECT 5318 5316
CONNECT 5319 5315 5320 5321

CONNECT 5320 5319
CONNECT 5321 5319 5322 5323
CONNECT 5322 5321
CONNECT 5323 5321 5336 5324
CONNECT 5324 5323 5325
CONNECT 5325 5324 5326
CONNECT 5326 5327 5325
CONNECT 5327 5328 5329 5326
CONNECT 5328 5327
CONNECT 5329 5333 5327 5330
CONNECT 5330 5329 5332 5331
CONNECT 5331 5330
CONNECT 5332 5330
CONNECT 5333 5334 5335 5329
CONNECT 5334 5333
CONNECT 5335 5333
CONNECT 5336 5323 5337 5338
CONNECT 5337 5336
CONNECT 5338 5336 5339 5340
CONNECT 5339 5338
CONNECT 5340 5347 5338 5341
CONNECT 5341 5342 5340
CONNECT 5342 5343 5344 5341
CONNECT 5343 5342
CONNECT 5344 5346 5342 5345
CONNECT 5345 5344
CONNECT 5346 5344
CONNECT 5347 5349 5348 5340
CONNECT 5348 5347
CONNECT 5349 5351 5350 5347
CONNECT 5350 5349
CONNECT 5351 5352 5353 5349
CONNECT 5352 5351
CONNECT 5353 5351 5355 5354
CONNECT 5354 5353
CONNECT 5355 5356 5353 5357
CONNECT 5356 5355
CONNECT 5357 5362 5355 5358
CONNECT 5358 5357 5359
CONNECT 5359 5358 5361 5360
CONNECT 5360 5359
CONNECT 5361 5359
CONNECT 5362 5364 5363 5357
CONNECT 5363 5362
CONNECT 5364 5366 5365 5362
CONNECT 5365 5364
CONNECT 5366 5370 5367 5364
CONNECT 5367 5369 5368 5366
CONNECT 5368 5367
CONNECT 5369 5367
CONNECT 5370 5372 5371 5366
CONNECT 5371 5370
CONNECT 5372 5374 5373 5370
CONNECT 5373 5372
CONNECT 5374 5379 5375 5372
CONNECT 5375 5377 5374 5376
CONNECT 5376 5375 5378
CONNECT 5377 5375
CONNECT 5378 5376
CONNECT 5379 5381 5380 5374
CONNECT 5380 5379
CONNECT 5381 5383 5382 5379
CONNECT 5382 5381
CONNECT 5383 5385 5384 5381
CONNECT 5384 5383
CONNECT 5385 5387 5386 5383
CONNECT 5386 5385
CONNECT 5387 5389 5388 5385
CONNECT 5388 5387
CONNECT 5389 5390 5387
CONNECT 5390 5392 5391 5389
CONNECT 5391 5390
CONNECT 5392 5394 5393 5390
CONNECT 5393 5392

CONNECT 5394 5402 5395 5392
CONNECT 5395 5394 5396
CONNECT 5396 5397 5395 5398
CONNECT 5397 5399 5396
CONNECT 5398 5396 5400
CONNECT 5399 5397 5401
CONNECT 5400 5401 5398
CONNECT 5401 5399 5400
CONNECT 5402 5404 5394 5403
CONNECT 5403 5402
CONNECT 5404 5406 5405 5402
CONNECT 5405 5404
CONNECT 5406 5411 5407 5404
CONNECT 5407 5408 5406
CONNECT 5408 5410 5409 5407
CONNECT 5409 5408
CONNECT 5410 5408
CONNECT 5411 5412 5413 5406
CONNECT 5412 5411
CONNECT 5413 5415 5414 5411
CONNECT 5414 5413
CONNECT 5415 5416 5420 5413
CONNECT 5416 5417 5415
CONNECT 5417 5419 5418 5416
CONNECT 5418 5417
CONNECT 5419 5417
CONNECT 5420 5421 5415 5422
CONNECT 5421 5420
CONNECT 5422 5420 5424 5423
CONNECT 5423 5422
CONNECT 5424 5422 5425
CONNECT 5425 5426 5424 5427
CONNECT 5426 5425
CONNECT 5427 5425 5429 5428
CONNECT 5428 5427
CONNECT 5429 5427 5430 5433
CONNECT 5430 5432 5429 5431
CONNECT 5431 5430
CONNECT 5432 5430
CONNECT 5433 5429 5435 5434
CONNECT 5434 5433
CONNECT 5435 5436 5433 5437
CONNECT 5436 5435
CONNECT 5437 5435 5438 5442
CONNECT 5438 5440 5437 5439
CONNECT 5439 5438 5441
CONNECT 5440 5438
CONNECT 5441 5439
CONNECT 5442 5437 5443 5444
CONNECT 5443 5442
CONNECT 5444 5442 5445 5446
CONNECT 5445 5444
CONNECT 5446 5444 5447 5450
CONNECT 5447 5448 5449 5446
CONNECT 5448 5447
CONNECT 5449 5447
CONNECT 5450 5446 5451 5452
CONNECT 5451 5450
CONNECT 5452 5450 5453 5454
CONNECT 5453 5452
CONNECT 5454 5452 5455 5460
CONNECT 5455 5456 5454
CONNECT 5456 5457 5455
CONNECT 5457 5459 5456 5458
CONNECT 5458 5457
CONNECT 5459 5457
CONNECT 5460 5454 5461 5462
CONNECT 5461 5460
CONNECT 5462 5460 5463 5464
CONNECT 5463 5462
CONNECT 5464 5462 5465 5473
CONNECT 5465 5464 5466
CONNECT 5466 5465 5467
CONNECT 5467 5468 5466

CONNECT 5468 5469 5467
CONNECT 5469 5470 5468 5472 5471
CONNECT 5469
CONNECT 5470 5469
CONNECT 5471 5469
CONNECT 5472 5469
CONNECT 5473 5464 5474 5475
CONNECT 5474 5473
CONNECT 5475 5473 5476 5477
CONNECT 5476 5475
CONNECT 5477 5475 5478
CONNECT 5478 5479 5477 5480
CONNECT 5479 5478
CONNECT 5480 5478 5481 5482
CONNECT 5481 5480
CONNECT 5482 5480 5489 5483
CONNECT 5483 5482 5484
CONNECT 5484 5483 5485 5486
CONNECT 5485 5484
CONNECT 5486 5484 5488 5487
CONNECT 5487 5486
CONNECT 5488 5486
CONNECT 5489 5490 5491 5482
CONNECT 5490 5489
CONNECT 5491 5489 5493 5492
CONNECT 5492 5491
CONNECT 5493 5502 5491 5497
CONNECT 5494 5495 5501 5496
CONNECT 5495 5494
CONNECT 5496 5494 5497 5500
CONNECT 5497 5493 5496
CONNECT 5498 5501 5499 5500
CONNECT 5499 5498
CONNECT 5500 5496 5498
CONNECT 5501 5494 5498
CONNECT 5502 5503 5493 5504
CONNECT 5503 5502
CONNECT 5504 5502 5506 5505
CONNECT 5505 5504
CONNECT 5506 5511 5504 5507
CONNECT 5507 5506 5508
CONNECT 5508 5509 5507 5510
CONNECT 5509 5508
CONNECT 5510 5508
CONNECT 5511 5513 5512 5506
CONNECT 5512 5511
CONNECT 5513 5515 5514 5511
CONNECT 5514 5513
CONNECT 5515 5521 5516 5513
CONNECT 5516 5515 5517
CONNECT 5517 5516 5518
CONNECT 5518 5519 5517 5520
CONNECT 5519 5518
CONNECT 5520 5518
CONNECT 5521 5523 5522 5515
CONNECT 5522 5521
CONNECT 5523 5525 5524 5521
CONNECT 5524 5523
CONNECT 5525 5526 5530 5523
CONNECT 5526 5527 5525
CONNECT 5527 5529 5526 5528
CONNECT 5528 5527
CONNECT 5529 5527
CONNECT 5530 5531 5525 5532
CONNECT 5531 5530
CONNECT 5532 5530 5534 5533
CONNECT 5533 5532
CONNECT 5534 5532 5539 5535
CONNECT 5535 5534 5536
CONNECT 5536 5537 5535
CONNECT 5537 5536 5538
CONNECT 5538 5537
CONNECT 5539 5540 5534 5541
CONNECT 5540 5539

CONNECT 5541 5539 5543 5542
CONNECT 5542 5541
CONNECT 5543 5552 5541 5544
CONNECT 5544 5543 5545
CONNECT 5545 5544 5546
CONNECT 5546 5545 5547
CONNECT 5547 5546 5548
CONNECT 5548 5550 5547 5551 5549
CONNECT 5548
CONNECT 5549 5548
CONNECT 5550 5548
CONNECT 5551 5548
CONNECT 5552 5554 5553 5543
CONNECT 5553 5552
CONNECT 5554 5556 5555 5552
CONNECT 5555 5554
CONNECT 5556 5562 5557 5554
CONNECT 5557 5558 5556
CONNECT 5558 5557 5559
CONNECT 5559 5560 5558 5561
CONNECT 5560 5559
CONNECT 5561 5559
CONNECT 5562 5563 5564 5556
CONNECT 5563 5562
CONNECT 5564 5566 5562 5565
CONNECT 5565 5564
CONNECT 5566 5575 5567 5564
CONNECT 5567 5568 5566
CONNECT 5568 5569 5567
CONNECT 5569 5570 5568
CONNECT 5570 5571 5569
CONNECT 5571 5572 5573 5570 5574
CONNECT 5571
CONNECT 5572 5571
CONNECT 5573 5571
CONNECT 5574 5571
CONNECT 5575 5576 5577 5566
CONNECT 5576 5575
CONNECT 5577 5579 5575 5578
CONNECT 5578 5577
CONNECT 5579 5580 5577
CONNECT 5580 5582 5581 5579
CONNECT 5581 5580
CONNECT 5582 5584 5583 5580
CONNECT 5583 5582
CONNECT 5584 5585 5582 5589
CONNECT 5585 5586 5587 5584
CONNECT 5586 5588 5585
CONNECT 5587 5585
CONNECT 5588 5586
CONNECT 5589 5584 5590 5591
CONNECT 5590 5589
CONNECT 5591 5589 5592 5593
CONNECT 5592 5591
CONNECT 5593 5591 5603 5594
CONNECT 5594 5593 5595
CONNECT 5595 5594 5596 5597
CONNECT 5596 5595 5598
CONNECT 5597 5595 5599
CONNECT 5598 5596 5600
CONNECT 5599 5597 5600
CONNECT 5600 5598 5599 5601
CONNECT 5601 5600 5602
CONNECT 5602 5601
CONNECT 5603 5593 5604 5605
CONNECT 5604 5603
CONNECT 5605 5603 5606 5607
CONNECT 5606 5605
CONNECT 5607 5615 5605 5608
CONNECT 5608 5607 5609
CONNECT 5609 5611 5608 5610
CONNECT 5610 5609 5612
CONNECT 5611 5613 5609
CONNECT 5612 5614 5610

CONECT 5613 5611 5614
CONECT 5614 5613 5612
CONECT 5615 5617 5616 5607
CONECT 5616 5615
CONECT 5617 5619 5618 5615
CONECT 5618 5617
CONECT 5619 5620 5628 5617
CONECT 5620 5621 5619
CONECT 5621 5622 5620
CONECT 5622 5623 5621
CONECT 5623 5624 5622
CONECT 5624 5625 5627 5626 5623
CONECT 5624
CONECT 5625 5624
CONECT 5626 5624
CONECT 5627 5624
CONECT 5628 5630 5629 5619
CONECT 5629 5628
CONECT 5630 5632 5631 5628
CONECT 5631 5630
CONECT 5632 5633 5630 5637
CONECT 5633 5634 5632
CONECT 5634 5635 5636 5633
CONECT 5635 5634
CONECT 5636 5634
CONECT 5637 5632 5638 5639
CONECT 5638 5637
CONECT 5639 5637 5640 5641
CONECT 5640 5639
CONECT 5641 5639 5645 5642
CONECT 5642 5641 5644 5643
CONECT 5643 5642
CONECT 5644 5642
CONECT 5645 5647 5646 5641
CONECT 5646 5645
CONECT 5647 5649 5648 5645
CONECT 5648 5647
CONECT 5649 5654 5650 5647
CONECT 5650 5651 5649 5653
CONECT 5651 5652 5650
CONECT 5652 5651
CONECT 5653 5650
CONECT 5654 5656 5655 5649
CONECT 5655 5654
CONECT 5656 5658 5657 5654
CONECT 5657 5656
CONECT 5658 5659 5663 5656
CONECT 5659 5660 5658
CONECT 5660 5661 5659
CONECT 5661 5662 5660
CONECT 5662 5661
CONECT 5663 5664 5658 5665
CONECT 5664 5663
CONECT 5665 5663 5667 5666
CONECT 5666 5665
CONECT 5667 5675 5665 5668
CONECT 5668 5667 5669
CONECT 5669 5668 5670
CONECT 5670 5669 5671 5672
CONECT 5671 5670
CONECT 5672 5670 5674 5673
CONECT 5673 5672
CONECT 5674 5672
CONECT 5675 5676 5677 5667
CONECT 5676 5675
CONECT 5677 5679 5678 5675
CONECT 5678 5677
CONECT 5679 5684 5677 5680
CONECT 5680 5679 5681 5683
CONECT 5681 5680 5682
CONECT 5682 5681
CONECT 5683 5680
CONECT 5684 5686 5685 5679
CONECT 5685 5684

CONNECT 5686 5688 5684
CONNECT 5687 5689
CONNECT 5688 5686
CONNECT 5689 5690 5694 5687
CONNECT 5690 5691 5689
CONNECT 5691 5692 5693 5690
CONNECT 5692 5691
CONNECT 5693 5691
CONNECT 5694 5695 5696 5689
CONNECT 5695 5694
CONNECT 5696 5698 5694 5697
CONNECT 5697 5696
CONNECT 5698 5703 5696 5699
CONNECT 5699 5698 5700
CONNECT 5700 5701 5699 5702
CONNECT 5701 5700
CONNECT 5702 5700
CONNECT 5703 5705 5704 5698
CONNECT 5704 5703
CONNECT 5705 5707 5706 5703
CONNECT 5706 5705
CONNECT 5707 5708 5713 5705
CONNECT 5708 5709 5707
CONNECT 5709 5710 5708
CONNECT 5710 5709 5711 5712
CONNECT 5711 5710
CONNECT 5712 5710
CONNECT 5713 5715 5714 5707
CONNECT 5714 5713
CONNECT 5715 5717 5716 5713
CONNECT 5716 5715
CONNECT 5717 5718 5721 5715
CONNECT 5718 5719 5717
CONNECT 5719 5720 5718
CONNECT 5720 5719
CONNECT 5721 5723 5717 5722
CONNECT 5722 5721
CONNECT 5723 5724 5725 5721
CONNECT 5724 5723
CONNECT 5725 5723 5730 5726
CONNECT 5726 5725 5727 5728
CONNECT 5727 5729 5726
CONNECT 5728 5726
CONNECT 5729 5727
CONNECT 5730 5731 5725 5732
CONNECT 5731 5730
CONNECT 5732 5730 5733 5734
CONNECT 5733 5737 5732 5735
CONNECT 5734 5732 5736
CONNECT 5735 5733 5736
CONNECT 5736 5734 5735
CONNECT 5737 5738 5739 5733
CONNECT 5738 5737
CONNECT 5739 5740 5737 5741
CONNECT 5740 5744 5739 5742
CONNECT 5741 5739 5743
CONNECT 5742 5740 5743
CONNECT 5743 5742 5741
CONNECT 5744 5745 5746 5740
CONNECT 5745 5744
CONNECT 5746 5748 5744 5747
CONNECT 5747 5746
CONNECT 5748 5749 5752 5746
CONNECT 5749 5751 5748 5750
CONNECT 5750 5749
CONNECT 5751 5749
CONNECT 5752 5754 5748 5753
CONNECT 5753 5752
CONNECT 5754 5755 5756 5752
CONNECT 5755 5754
CONNECT 5756 5760 5757 5754
CONNECT 5757 5758 5756
CONNECT 5758 5759 5757
CONNECT 5759 5758

CONECT 5760 5761 5762 5756
CONECT 5761 5760
CONECT 5762 5764 5760 5763
CONECT 5763 5762
CONECT 5764 5772 5765 5762
CONECT 5765 5764 5766
CONECT 5766 5765 5768 5767
CONECT 5767 5766 5769
CONECT 5768 5766 5770
CONECT 5769 5767 5771
CONECT 5770 5768 5771
CONECT 5771 5770 5769
CONECT 5772 5774 5764 5773
CONECT 5773 5772
CONECT 5774 5776 5775 5772
CONECT 5775 5774
CONECT 5776 5777 5788 5774
CONECT 5777 5778 5776
CONECT 5778 5779 5777 5780
CONECT 5779 5784 5783 5778
CONECT 5780 5778 5781
CONECT 5781 5783 5782 5780
CONECT 5782 5781
CONECT 5783 5785 5779 5781
CONECT 5784 5786 5779
CONECT 5785 5787 5783
CONECT 5786 5787 5784
CONECT 5787 5786 5785
CONECT 5788 5789 5776 5790
CONECT 5789 5788
CONECT 5790 5788 5791 5792
CONECT 5791 5790
CONECT 5792 5805 5790 5793
CONECT 5793 5792 5794
CONECT 5794 5793 5795
CONECT 5795 5794 5796
CONECT 5796 5797 5795 5798
CONECT 5797 5796
CONECT 5798 5796 5802 5799
CONECT 5799 5798 5801 5800
CONECT 5800 5799
CONECT 5801 5799
CONECT 5802 5804 5798 5803
CONECT 5803 5802
CONECT 5804 5802
CONECT 5805 5807 5806 5792
CONECT 5806 5805
CONECT 5807 5809 5808 5805
CONECT 5808 5807
CONECT 5809 5814 5810 5807
CONECT 5810 5811 5809 5812
CONECT 5811 5810 5813
CONECT 5812 5810
CONECT 5813 5811
CONECT 5814 5815 5816 5809
CONECT 5815 5814
CONECT 5816 5818 5814 5817
CONECT 5817 5816
CONECT 5818 5819 5823 5816
CONECT 5819 5820 5818
CONECT 5820 5821 5819
CONECT 5821 5820 5822
CONECT 5822 5821
CONECT 5823 5824 5818 5825
CONECT 5824 5823
CONECT 5825 5823 5827 5826
CONECT 5826 5825
CONECT 5827 5825 5836 5828
CONECT 5828 5827 5829
CONECT 5829 5830 5828
CONECT 5830 5831 5829
CONECT 5831 5830 5832
CONECT 5832 5835 5831 5833 5834
CONECT 5832

CONNECT 5833 5832
CONNECT 5834 5832
CONNECT 5835 5832
CONNECT 5836 5837 5827 5838
CONNECT 5837 5836
CONNECT 5838 5836 5840 5839
CONNECT 5839 5838
CONNECT 5840 5845 5838 5841
CONNECT 5841 5840 5842
CONNECT 5842 5841 5844 5843
CONNECT 5843 5842
CONNECT 5844 5842
CONNECT 5845 5847 5846 5840
CONNECT 5846 5845
CONNECT 5847 5849 5848 5845
CONNECT 5848 5847
CONNECT 5849 5850 5856 5847
CONNECT 5850 5851 5849
CONNECT 5851 5853 5852 5850
CONNECT 5852 5851
CONNECT 5853 5855 5854 5851
CONNECT 5854 5853
CONNECT 5855 5853
CONNECT 5856 5857 5858 5849
CONNECT 5857 5856
CONNECT 5858 5860 5856 5859
CONNECT 5859 5858
CONNECT 5860 5861 5858 5865
CONNECT 5861 5862 5860
CONNECT 5862 5863 5864 5861
CONNECT 5863 5862
CONNECT 5864 5862
CONNECT 5865 5860 5866 5867
CONNECT 5866 5865
CONNECT 5867 5865 5868 5869
CONNECT 5868 5867
CONNECT 5869 5874 5867 5870
CONNECT 5870 5869 5873 5871
CONNECT 5871 5870 5872
CONNECT 5872 5871
CONNECT 5873 5870
CONNECT 5874 5876 5875 5869
CONNECT 5875 5874
CONNECT 5876 5878 5877 5874
CONNECT 5877 5876
CONNECT 5878 5884 5879 5876
CONNECT 5879 5878 5880
CONNECT 5880 5879 5881
CONNECT 5881 5880 5883 5882
CONNECT 5882 5881
CONNECT 5883 5881
CONNECT 5884 5885 5886 5878
CONNECT 5885 5884
CONNECT 5886 5888 5884 5887
CONNECT 5887 5886
CONNECT 5888 5889 5900 5886
CONNECT 5889 5890 5888
CONNECT 5890 5892 5891 5889
CONNECT 5891 5895 5890 5896
CONNECT 5892 5893 5890
CONNECT 5893 5894 5895 5892
CONNECT 5894 5893
CONNECT 5895 5893 5897 5891
CONNECT 5896 5891 5898
CONNECT 5897 5895 5899
CONNECT 5898 5899 5896
CONNECT 5899 5897 5898
CONNECT 5900 5902 5888 5901
CONNECT 5901 5900
CONNECT 5902 5904 5903 5900
CONNECT 5903 5905 5907 5902
CONNECT 5904 5906 5902
CONNECT 5905 5906 5903
CONNECT 5906 5905 5904

CONECT 5907 5909 5908 5903
CONECT 5908 5907
CONECT 5909 5911 5910 5907
CONECT 5910 5909
CONECT 5911 5921 5912 5909
CONECT 5912 5913 5911
CONECT 5913 5914 5915 5912
CONECT 5914 5916 5913
CONECT 5915 5917 5913
CONECT 5916 5918 5914
CONECT 5917 5918 5915
CONECT 5918 5919 5916 5917
CONECT 5919 5920 5918
CONECT 5920 5919
CONECT 5921 5922 5923 5911
CONECT 5922 5921
CONECT 5923 5925 5921 5924
CONECT 5924 5923
CONECT 5925 5933 5926 5923
CONECT 5926 5925 5927
CONECT 5927 5928 5926 5929
CONECT 5928 5930 5927
CONECT 5929 5927 5931
CONECT 5930 5928 5932
CONECT 5931 5932 5929
CONECT 5932 5930 5931
CONECT 5933 5934 5935 5925
CONECT 5934 5933
CONECT 5935 5937 5933 5936
CONECT 5936 5935
CONECT 5937 5941 5938 5935
CONECT 5938 5939 5940 5937
CONECT 5939 5938
CONECT 5940 5938
CONECT 5941 5942 5943 5937
CONECT 5942 5941
CONECT 5943 5945 5944 5941
CONECT 5944 5943
CONECT 5945 5946 5949 5943
CONECT 5946 5948 5945 5947
CONECT 5947 5946
CONECT 5948 5946
CONECT 5949 5950 5945 5951
CONECT 5950 5949
CONECT 5951 5949 5953 5952
CONECT 5952 5951
CONECT 5953 5954 5951
CONECT 5954 5955 5953 5956
CONECT 5955 5954
CONECT 5956 5954 5958 5957
CONECT 5957 5956
CONECT 5958 5962 5956 5959
CONECT 5959 5958 5961 5960
CONECT 5960 5959
CONECT 5961 5959
CONECT 5962 5964 5963 5958
CONECT 5963 5962
CONECT 5964 5966 5965 5962
CONECT 5965 5964
CONECT 5966 5974 5967 5964
CONECT 5967 5968 5966
CONECT 5968 5969 5970 5967
CONECT 5969 5971 5968
CONECT 5970 5972 5968
CONECT 5971 5973 5969
CONECT 5972 5973 5970
CONECT 5973 5971 5972
CONECT 5974 5975 5976 5966
CONECT 5975 5974
CONECT 5976 5978 5974 5977
CONECT 5977 5976
CONECT 5978 5979 5981 5976
CONECT 5979 5978 5980
CONECT 5980 5979

CONECT 5981 5982 5978 5983
CONECT 5982 5981
CONECT 5983 5981 5985 5984
CONECT 5984 5983
CONECT 5985 5987 5983 5986
CONECT 5986 5985
CONECT 5987 5988 5989 5985
CONECT 5988 5987
CONECT 5989 5991 5987 5990
CONECT 5990 5989
CONECT 5991 5996 5992 5989
CONECT 5992 5994 5991 5993
CONECT 5993 5992 5995
CONECT 5994 5992
CONECT 5995 5993
CONECT 5996 5998 5997 5991
CONECT 5997 5996
CONECT 5998 6000 5999 5996
CONECT 5999 5998
CONECT 6000 6001 6005 5998
CONECT 6001 6002 6003 6000
CONECT 6002 6004 6001
CONECT 6003 6001
CONECT 6004 6002
CONECT 6005 6006 6000 6007
CONECT 6006 6005
CONECT 6007 6009 6005 6008
CONECT 6008 6007
CONECT 6009 6016 6010 6007
CONECT 6010 6009 6011
CONECT 6011 6010 6013 6012
CONECT 6012 6011
CONECT 6013 6015 6011 6014
CONECT 6014 6013
CONECT 6015 6013
CONECT 6016 6017 6009 6018
CONECT 6017 6016
CONECT 6018 6016 6020 6019
CONECT 6019 6018
CONECT 6020 6021 6018
CONECT 6021 6022 6023 6020
CONECT 6022 6021
CONECT 6023 6025 6021 6024
CONECT 6024 6023
CONECT 6025 6026 6023
CONECT 6026 6027 6028 6025
CONECT 6027 6026
CONECT 6028 6030 6026 6029
CONECT 6029 6028
CONECT 6030 6035 6031 6028
CONECT 6031 6032 6030
CONECT 6032 6033 6034 6031
CONECT 6033 6032
CONECT 6034 6032
CONECT 6035 6036 6030 6037
CONECT 6036 6035
CONECT 6037 6035 6039 6038
CONECT 6038 6037
CONECT 6039 6047 6037 6040
CONECT 6040 6039 6041
CONECT 6041 6042 6040
CONECT 6042 6044 6041 6043
CONECT 6043 6042
CONECT 6044 6045 6046 6042
CONECT 6045 6044
CONECT 6046 6044
CONECT 6047 6048 6039 6049
CONECT 6048 6047
CONECT 6049 6047 6050 6051
CONECT 6050 6054 6049 6052
CONECT 6051 6049 6053
CONECT 6052 6050 6053
CONECT 6053 6052 6051
CONECT 6054 6055 6056 6050

CONNECT 6055 6054
CONNECT 6056 6058 6054 6057
CONNECT 6057 6056
CONNECT 6058 6060 6059 6056
CONNECT 6059 6058
CONNECT 6060 6061 6062 6058
CONNECT 6061 6060
CONNECT 6062 6064 6060 6063
CONNECT 6063 6062
CONNECT 6064 6072 6065 6062
CONNECT 6065 6066 6064
CONNECT 6066 6067 6068 6065
CONNECT 6067 6069 6066
CONNECT 6068 6070 6066
CONNECT 6069 6071 6067
CONNECT 6070 6071 6068
CONNECT 6071 6069 6070
CONNECT 6072 6073 6064 6074
CONNECT 6073 6072
CONNECT 6074 6072 6076 6075
CONNECT 6075 6074
CONNECT 6076 6078 6074 6077
CONNECT 6077 6076
CONNECT 6078 6079 6080 6076
CONNECT 6079 6078
CONNECT 6080 6082 6078 6081
CONNECT 6081 6080
CONNECT 6082 6087 6083 6080
CONNECT 6083 6084 6082 6085
CONNECT 6084 6086 6083
CONNECT 6085 6083
CONNECT 6086 6084
CONNECT 6087 6088 6089 6082
CONNECT 6088 6087
CONNECT 6089 6091 6087 6090
CONNECT 6090 6089
CONNECT 6091 6096 6092 6089
CONNECT 6092 6093 6091 6094
CONNECT 6093 6095 6092
CONNECT 6094 6092
CONNECT 6095 6093
CONNECT 6096 6097 6098 6091
CONNECT 6097 6096
CONNECT 6098 6100 6096 6099
CONNECT 6099 6098
CONNECT 6100 6108 6098 6101
CONNECT 6101 6100 6102
CONNECT 6102 6103 6104 6101
CONNECT 6103 6105 6102
CONNECT 6104 6106 6102
CONNECT 6105 6107 6103
CONNECT 6106 6107 6104
CONNECT 6107 6105 6106
CONNECT 6108 6109 6100 6110
CONNECT 6109 6108
CONNECT 6110 6108 6112 6111
CONNECT 6111 6110
CONNECT 6112 6116 6110 6113
CONNECT 6113 6112 6114
CONNECT 6114 6113 6115
CONNECT 6115 6114
CONNECT 6116 6117 6118 6112
CONNECT 6117 6116
CONNECT 6118 6120 6116 6119
CONNECT 6119 6118
CONNECT 6120 6129 6121 6118
CONNECT 6121 6122 6120
CONNECT 6122 6123 6121
CONNECT 6123 6124 6122
CONNECT 6124 6125 6123
CONNECT 6125 6126 6124 6128 6127
CONNECT 6125
CONNECT 6126 6125
CONNECT 6127 6125

CONNECT 6128 6125
CONNECT 6129 6130 6131 6120
CONNECT 6130 6129
CONNECT 6131 6133 6129 6132
CONNECT 6132 6131
CONNECT 6133 6138 6134 6131
CONNECT 6134 6136 6133 6135
CONNECT 6135 6134 6137
CONNECT 6136 6134
CONNECT 6137 6135
CONNECT 6138 6139 6133 6140
CONNECT 6139 6138
CONNECT 6140 6138 6142 6141
CONNECT 6141 6140
CONNECT 6142 6147 6140 6143
CONNECT 6143 6142 6144 6145
CONNECT 6144 6143 6146
CONNECT 6145 6143
CONNECT 6146 6144
CONNECT 6147 6148 6142 6149
CONNECT 6148 6147
CONNECT 6149 6147 6151 6150
CONNECT 6150 6149
CONNECT 6151 6152 6149
CONNECT 6152 6153 6154 6151
CONNECT 6153 6152
CONNECT 6154 6156 6152 6155
CONNECT 6155 6154
CONNECT 6156 6160 6157 6154
CONNECT 6157 6159 6156 6158
CONNECT 6158 6157
CONNECT 6159 6157
CONNECT 6160 6161 6162 6156
CONNECT 6161 6160
CONNECT 6162 6164 6160 6163
CONNECT 6163 6162
CONNECT 6164 6172 6165 6162
CONNECT 6165 6166 6164
CONNECT 6166 6167 6168 6165
CONNECT 6167 6169 6166
CONNECT 6168 6170 6166
CONNECT 6169 6171 6167
CONNECT 6170 6171 6168
CONNECT 6171 6169 6170
CONNECT 6172 6173 6164 6174
CONNECT 6173 6172
CONNECT 6174 6172 6176 6175
CONNECT 6175 6174
CONNECT 6176 6181 6174 6177
CONNECT 6177 6176 6180 6178
CONNECT 6178 6177 6179
CONNECT 6179 6178
CONNECT 6180 6177
CONNECT 6181 6182 6183 6176
CONNECT 6182 6181
CONNECT 6183 6185 6181 6184
CONNECT 6184 6183
CONNECT 6185 6198 6183 6186
CONNECT 6186 6185 6187
CONNECT 6187 6186 6188
CONNECT 6188 6187 6189
CONNECT 6189 6188 6190 6191
CONNECT 6190 6189
CONNECT 6191 6189 6192 6195
CONNECT 6192 6193 6191 6194
CONNECT 6193 6192
CONNECT 6194 6192
CONNECT 6195 6191 6196 6197
CONNECT 6196 6195
CONNECT 6197 6195
CONNECT 6198 6200 6185 6199
CONNECT 6199 6198
CONNECT 6200 6201 6202 6198
CONNECT 6201 6200

CONNECT 6202 6207 6200 6203
CONNECT 6203 6205 6202 6204
CONNECT 6204 6203 6206
CONNECT 6205 6203
CONNECT 6206 6204
CONNECT 6207 6208 6209 6202
CONNECT 6208 6207
CONNECT 6209 6211 6207 6210
CONNECT 6210 6209
CONNECT 6211 6216 6212 6209
CONNECT 6212 6213 6211
CONNECT 6213 6214 6215 6212
CONNECT 6214 6213
CONNECT 6215 6213
CONNECT 6216 6218 6211 6217
CONNECT 6217 6216
CONNECT 6218 6220 6219 6216
CONNECT 6219 6218
CONNECT 6220 6221 6225 6218
CONNECT 6221 6222 6220
CONNECT 6222 6224 6221 6223
CONNECT 6223 6222
CONNECT 6224 6222
CONNECT 6225 6227 6220 6226
CONNECT 6226 6225
CONNECT 6227 6229 6228 6225
CONNECT 6228 6230 6227 6232
CONNECT 6229 6231 6227
CONNECT 6230 6231 6228
CONNECT 6231 6230 6229
CONNECT 6232 6228 6234 6233
CONNECT 6233 6232
CONNECT 6234 6235 6232 6236
CONNECT 6235 6234
CONNECT 6236 6234 6237 6242
CONNECT 6237 6238 6236
CONNECT 6238 6239 6237
CONNECT 6239 6241 6238 6240
CONNECT 6240 6239
CONNECT 6241 6239
CONNECT 6242 6236 6244 6243
CONNECT 6243 6242
CONNECT 6244 6245 6242 6246
CONNECT 6245 6244
CONNECT 6246 6244 6247 6251
CONNECT 6247 6248 6250 6246
CONNECT 6248 6249 6247
CONNECT 6249 6248
CONNECT 6250 6247
CONNECT 6251 6253 6246 6252
CONNECT 6252 6251
CONNECT 6253 6254 6255 6251
CONNECT 6254 6253
CONNECT 6255 6256 6253 6264
CONNECT 6256 6257 6255
CONNECT 6257 6258 6256
CONNECT 6258 6259 6257
CONNECT 6259 6258 6260
CONNECT 6260 6259 6262 6261 6263
CONNECT 6260
CONNECT 6261 6260
CONNECT 6262 6260
CONNECT 6263 6260
CONNECT 6264 6255 6266 6265
CONNECT 6265 6264
CONNECT 6266 6267 6264 6268
CONNECT 6267 6266
CONNECT 6268 6266 6269 6281
CONNECT 6269 6268 6270
CONNECT 6270 6269 6271
CONNECT 6271 6270 6272
CONNECT 6272 6271 6274 6273
CONNECT 6273 6272
CONNECT 6274 6275 6278 6272

CONECT 6275 6277 6276 6274
CONECT 6276 6275
CONECT 6277 6275
CONECT 6278 6274 6280 6279
CONECT 6279 6278
CONECT 6280 6278
CONECT 6281 6268 6283 6282
CONECT 6282 6281
CONECT 6283 6284 6281 6285
CONECT 6284 6283
CONECT 6285 6283 6286 6293
CONECT 6286 6287 6285
CONECT 6287 6286 6288
CONECT 6288 6287 6290 6289
CONECT 6289 6288
CONECT 6290 6292 6291 6288
CONECT 6291 6290
CONECT 6292 6290
CONECT 6293 6295 6285 6294
CONECT 6294 6293
CONECT 6295 6296 6297 6293
CONECT 6296 6295
CONECT 6297 6298 6295 6304
CONECT 6298 6299 6297
CONECT 6299 6298 6301 6300
CONECT 6300 6299
CONECT 6301 6303 6299 6302
CONECT 6302 6301
CONECT 6303 6301
CONECT 6304 6306 6297 6305
CONECT 6305 6304
CONECT 6306 6307 6308 6304
CONECT 6307 6306
CONECT 6308 6309 6306 6312
CONECT 6309 6310 6308
CONECT 6310 6311 6309
CONECT 6311 6310
CONECT 6312 6308 6314 6313
CONECT 6313 6312
CONECT 6314 6315 6312 6316
CONECT 6315 6314
CONECT 6316 6314 6317 6323
CONECT 6317 6316 6318
CONECT 6318 6317 6320 6319
CONECT 6319 6318
CONECT 6320 6321 6318 6322
CONECT 6321 6320
CONECT 6322 6320
CONECT 6323 6316 6325 6324
CONECT 6324 6323
CONECT 6325 6326 6323 6327
CONECT 6326 6325
CONECT 6327 6325 6328 6332
CONECT 6328 6327 6329
CONECT 6329 6331 6328 6330
CONECT 6330 6329
CONECT 6331 6329
CONECT 6332 6334 6327 6333
CONECT 6333 6332
CONECT 6334 6335 6336 6332
CONECT 6335 6334
CONECT 6336 6337 6334 6344
CONECT 6337 6338 6336
CONECT 6338 6340 6337 6339
CONECT 6339 6338 6341
CONECT 6340 6342 6338
CONECT 6341 6343 6339
CONECT 6342 6340 6343
CONECT 6343 6342 6341
CONECT 6344 6346 6336 6345
CONECT 6345 6344
CONECT 6346 6347 6348 6344
CONECT 6347 6346
CONECT 6348 6349 6346 6352

CONNECT 6349 6350 6348
CONNECT 6350 6349 6351
CONNECT 6351 6350
CONNECT 6352 6348 6354 6353
CONNECT 6353 6352
CONNECT 6354 6355 6352 6356
CONNECT 6355 6354
CONNECT 6356 6354 6357 6361
CONNECT 6357 6358 6356
CONNECT 6358 6360 6357 6359
CONNECT 6359 6358
CONNECT 6360 6358
CONNECT 6361 6356 6363 6362
CONNECT 6362 6361
CONNECT 6363 6364 6361 6365
CONNECT 6364 6363
CONNECT 6365 6363 6366 6370
CONNECT 6366 6367 6365
CONNECT 6367 6368 6366 6369
CONNECT 6368 6367
CONNECT 6369 6367
CONNECT 6370 6372 6365 6371
CONNECT 6371 6370
CONNECT 6372 6373 6374 6370
CONNECT 6373 6372
CONNECT 6374 6375 6372 6382
CONNECT 6375 6376 6374
CONNECT 6376 6375 6378 6377
CONNECT 6377 6376 6379
CONNECT 6378 6376 6380
CONNECT 6379 6377 6381
CONNECT 6380 6378 6381
CONNECT 6381 6380 6379
CONNECT 6382 6374 6384 6383
CONNECT 6383 6382
CONNECT 6384 6385 6386 6382
CONNECT 6385 6384
CONNECT 6386 6387 6384 6391
CONNECT 6387 6388 6386
CONNECT 6388 6387 6390 6389
CONNECT 6389 6388
CONNECT 6390 6388
CONNECT 6391 6386 6393 6392
CONNECT 6392 6391
CONNECT 6393 6394 6391 6395
CONNECT 6394 6393
CONNECT 6395 6393 6396 6397
CONNECT 6396 6395
CONNECT 6397 6395 6399 6398
CONNECT 6398 6397
CONNECT 6399 6400 6397 6401
CONNECT 6400 6399
CONNECT 6401 6399 6402 6406
CONNECT 6402 6401 6403
CONNECT 6403 6402 6405 6404
CONNECT 6404 6403
CONNECT 6405 6403
CONNECT 6406 6408 6401 6407
CONNECT 6407 6406
CONNECT 6408 6409 6410 6406
CONNECT 6409 6408
CONNECT 6410 6408 6411
CONNECT 6411 6410 6413 6412
CONNECT 6412 6411
CONNECT 6413 6414 6415 6411
CONNECT 6414 6413
CONNECT 6415 6416 6413 6420
CONNECT 6416 6417 6418 6415
CONNECT 6417 6419 6416
CONNECT 6418 6416
CONNECT 6419 6417
CONNECT 6420 6415 6422 6421
CONNECT 6421 6420
CONNECT 6422 6423 6420 6424

CONNECT 6423 6422
CONNECT 6424 6422 6425 6429
CONNECT 6425 6426 6424 6427
CONNECT 6426 6428 6425
CONNECT 6427 6425
CONNECT 6428 6426
CONNECT 6429 6424 6431 6430
CONNECT 6430 6429
CONNECT 6431 6432 6429 6433
CONNECT 6432 6431
CONNECT 6433 6431 6434 6437
CONNECT 6434 6433 6435
CONNECT 6435 6434 6436
CONNECT 6436 6435
CONNECT 6437 6439 6433 6438
CONNECT 6438 6437
CONNECT 6439 6440 6441 6437
CONNECT 6440 6439
CONNECT 6441 6442 6439 6449
CONNECT 6442 6443 6441
CONNECT 6443 6442 6444 6445
CONNECT 6444 6443 6446
CONNECT 6445 6443 6447
CONNECT 6446 6444 6448
CONNECT 6447 6445 6448
CONNECT 6448 6446 6447
CONNECT 6449 6441 6451 6450
CONNECT 6450 6449
CONNECT 6451 6452 6449 6453
CONNECT 6452 6451
CONNECT 6453 6451 6454 6458
CONNECT 6454 6455 6453 6456
CONNECT 6455 6457 6454
CONNECT 6456 6454
CONNECT 6457 6455
CONNECT 6458 6453 6460 6459
CONNECT 6459 6458
CONNECT 6460 6461 6458 6462
CONNECT 6461 6460
CONNECT 6462 6460 6463 6467
CONNECT 6463 6466 6462 6464
CONNECT 6464 6463 6465
CONNECT 6465 6464
CONNECT 6466 6463
CONNECT 6467 6462 6469 6468
CONNECT 6468 6467
CONNECT 6469 6470 6467 6471
CONNECT 6470 6469
CONNECT 6471 6469 6472 6479
CONNECT 6472 6473 6471
CONNECT 6473 6474 6472 6475
CONNECT 6474 6476 6473
CONNECT 6475 6473 6477
CONNECT 6476 6474 6478
CONNECT 6477 6478 6475
CONNECT 6478 6476 6477
CONNECT 6479 6481 6471 6480
CONNECT 6480 6479
CONNECT 6481 6482 6483 6479
CONNECT 6482 6481
CONNECT 6483 6484 6481 6491
CONNECT 6484 6485 6483
CONNECT 6485 6484 6486 6487
CONNECT 6486 6485 6488
CONNECT 6487 6485 6489
CONNECT 6488 6486 6490
CONNECT 6489 6487 6490
CONNECT 6490 6488 6489
CONNECT 6491 6483 6493 6492
CONNECT 6492 6491
CONNECT 6493 6494 6491 6495
CONNECT 6494 6493
CONNECT 6495 6493 6496 6500
CONNECT 6496 6495 6497

CONNECT 6497 6496 6499 6498
CONNECT 6498 6497
CONNECT 6499 6497
CONNECT 6500 6495 6502 6501
CONNECT 6501 6500
CONNECT 6502 6503 6500 6504
CONNECT 6503 6502
CONNECT 6504 6502 6505 6512
CONNECT 6505 6504 6506
CONNECT 6506 6505 6507
CONNECT 6507 6509 6508 6506
CONNECT 6508 6507
CONNECT 6509 6510 6511 6507
CONNECT 6510 6509
CONNECT 6511 6509
CONNECT 6512 6514 6504 6513
CONNECT 6513 6512
CONNECT 6514 6515 6516 6512
CONNECT 6515 6514
CONNECT 6516 6514 6517
CONNECT 6517 6519 6516 6518
CONNECT 6518 6517
CONNECT 6519 6520 6521 6517
CONNECT 6520 6519
CONNECT 6521 6522 6519 6529
CONNECT 6522 6523 6521
CONNECT 6523 6524 6522 6525
CONNECT 6524 6526 6523
CONNECT 6525 6523 6527
CONNECT 6526 6524 6528
CONNECT 6527 6528 6525
CONNECT 6528 6526 6527
CONNECT 6529 6521 6531 6530
CONNECT 6530 6529
CONNECT 6531 6532 6529 6533
CONNECT 6532 6531
CONNECT 6533 6531 6534 6538
CONNECT 6534 6535 6533 6537
CONNECT 6535 6536 6534
CONNECT 6536 6535
CONNECT 6537 6534
CONNECT 6538 6533 6540 6539
CONNECT 6539 6538
CONNECT 6540 6541 6538 6542
CONNECT 6541 6540
CONNECT 6542 6540 6543 6550
CONNECT 6543 6544 6542
CONNECT 6544 6546 6545 6543
CONNECT 6545 6547 6544
CONNECT 6546 6548 6544
CONNECT 6547 6549 6545
CONNECT 6548 6549 6546
CONNECT 6549 6548 6547
CONNECT 6550 6552 6542 6551
CONNECT 6551 6550
CONNECT 6552 6553 6554 6550
CONNECT 6553 6552
CONNECT 6554 6552 6555
CONNECT 6555 6554 6557 6556
CONNECT 6556 6555
CONNECT 6557 6558 6555 6559
CONNECT 6558 6557
CONNECT 6559 6560 6557 6568
CONNECT 6560 6559 6561
CONNECT 6561 6560 6562
CONNECT 6562 6561 6563
CONNECT 6563 6562 6564
CONNECT 6564 6563 6567 6565 6566
CONNECT 6564
CONNECT 6565 6564
CONNECT 6566 6564
CONNECT 6567 6564
CONNECT 6568 6559 6570 6569
CONNECT 6569 6568

CONNECT 6570 6571 6568 6572
CONNECT 6571 6570
CONNECT 6572 6570 6573 6574
CONNECT 6573 6572
CONNECT 6574 6572 6576 6575
CONNECT 6575 6574
CONNECT 6576 6577 6578 6574
CONNECT 6577 6576
CONNECT 6578 6576 6579
CONNECT 6579 6581 6578 6580
CONNECT 6580 6579
CONNECT 6581 6582 6583 6579
CONNECT 6582 6581
CONNECT 6583 6584 6581 6589
CONNECT 6584 6585 6583
CONNECT 6585 6586 6584
CONNECT 6586 6588 6587 6585
CONNECT 6587 6586
CONNECT 6588 6586
CONNECT 6589 6583 6591 6590
CONNECT 6590 6589
CONNECT 6591 6592 6589 6593
CONNECT 6592 6591
CONNECT 6593 6591 6594 6598
CONNECT 6594 6596 6593 6595
CONNECT 6595 6594 6597
CONNECT 6596 6594
CONNECT 6597 6595
CONNECT 6598 6593 6600 6599
CONNECT 6599 6598
CONNECT 6600 6601 6598 6602
CONNECT 6601 6600
CONNECT 6602 6600 6603 6607
CONNECT 6603 6602 6604
CONNECT 6604 6603 6606 6605
CONNECT 6605 6604
CONNECT 6606 6604
CONNECT 6607 6609 6602 6608
CONNECT 6608 6607
CONNECT 6609 6610 6611 6607
CONNECT 6610 6609
CONNECT 6611 6612 6609 6616
CONNECT 6612 6613 6615 6611
CONNECT 6613 6614 6612
CONNECT 6614 6613
CONNECT 6615 6612
CONNECT 6616 6618 6611 6617
CONNECT 6617 6616
CONNECT 6618 6619 6620 6616
CONNECT 6619 6618
CONNECT 6620 6621 6618 6629
CONNECT 6621 6622 6620
CONNECT 6622 6623 6621
CONNECT 6623 6624 6622
CONNECT 6624 6625 6623
CONNECT 6625 6627 6626 6628 6624
CONNECT 6625
CONNECT 6626 6625
CONNECT 6627 6625
CONNECT 6628 6625
CONNECT 6629 6620 6631 6630
CONNECT 6630 6629
CONNECT 6631 6632 6629 6633
CONNECT 6632 6631
CONNECT 6633 6631 6634 6646
CONNECT 6634 6635 6633
CONNECT 6635 6636 6634
CONNECT 6636 6635 6637
CONNECT 6637 6636 6639 6638
CONNECT 6638 6637
CONNECT 6639 6640 6637 6643
CONNECT 6640 6641 6642 6639
CONNECT 6641 6640
CONNECT 6642 6640

CONNECT 6643 6639 6645 6644
CONNECT 6644 6643
CONNECT 6645 6643
CONNECT 6646 6633 6648 6647
CONNECT 6647 6646
CONNECT 6648 6649 6646 6650
CONNECT 6649 6648
CONNECT 6650 6648 6651 6655
CONNECT 6651 6650 6652
CONNECT 6652 6654 6651 6653
CONNECT 6653 6652
CONNECT 6654 6652
CONNECT 6655 6657 6650 6656
CONNECT 6656 6655
CONNECT 6657 6658 6659 6655
CONNECT 6658 6657
CONNECT 6659 6660 6657 6672
CONNECT 6660 6661 6659
CONNECT 6661 6662 6660
CONNECT 6662 6663 6661
CONNECT 6663 6665 6664 6662
CONNECT 6664 6663
CONNECT 6665 6669 6663 6666
CONNECT 6666 6665 6667 6668
CONNECT 6667 6666
CONNECT 6668 6666
CONNECT 6669 6671 6670 6665
CONNECT 6670 6669
CONNECT 6671 6669
CONNECT 6672 6659 6674 6673
CONNECT 6673 6672
CONNECT 6674 6675 6672 6676
CONNECT 6675 6674
CONNECT 6676 6677 6674 6686
CONNECT 6677 6678 6676
CONNECT 6678 6677 6679 6680
CONNECT 6679 6678 6681
CONNECT 6680 6678 6682
CONNECT 6681 6679 6683
CONNECT 6682 6680 6683
CONNECT 6683 6681 6682 6684
CONNECT 6684 6683 6685
CONNECT 6685 6684
CONNECT 6686 6676 6688 6687
CONNECT 6687 6686
CONNECT 6688 6689 6686 6690
CONNECT 6689 6688
CONNECT 6690 6688 6691 6695
CONNECT 6691 6692 6690
CONNECT 6692 6693 6691
CONNECT 6693 6692 6694
CONNECT 6694 6693
CONNECT 6695 6690 6697 6696
CONNECT 6696 6695
CONNECT 6697 6698 6695 6699
CONNECT 6698 6697
CONNECT 6699 6697 6700 6703
CONNECT 6700 6702 6699 6701
CONNECT 6701 6700
CONNECT 6702 6700
CONNECT 6703 6705 6699 6704
CONNECT 6704 6703
CONNECT 6705 6706 6707 6703
CONNECT 6706 6705
CONNECT 6707 6708 6705 6715
CONNECT 6708 6709 6707
CONNECT 6709 6711 6708 6710
CONNECT 6710 6709 6712
CONNECT 6711 6713 6709
CONNECT 6712 6714 6710
CONNECT 6713 6711 6714
CONNECT 6714 6713 6712
CONNECT 6715 6707 6717 6716
CONNECT 6716 6715

CONECT 6717 6718 6715 6719
CONECT 6718 6717
CONECT 6719 6717 6720 6732
CONECT 6720 6721 6719
CONECT 6721 6722 6720
CONECT 6722 6721 6723
CONECT 6723 6724 6722 6725
CONECT 6724 6723
CONECT 6725 6723 6729 6726
CONECT 6726 6725 6728 6727
CONECT 6727 6726
CONECT 6728 6726
CONECT 6729 6731 6725 6730
CONECT 6730 6729
CONECT 6731 6729
CONECT 6732 6719 6734 6733
CONECT 6733 6732
CONECT 6734 6735 6732 6736
CONECT 6735 6734
CONECT 6736 6734 6737 6740
CONECT 6737 6738 6736
CONECT 6738 6739 6737
CONECT 6739 6738
CONECT 6740 6736 6742 6741
CONECT 6741 6740
CONECT 6742 6743 6740 6744
CONECT 6743 6742
CONECT 6744 6742 6745 6749
CONECT 6745 6746 6744
CONECT 6746 6747 6745
CONECT 6747 6748 6746
CONECT 6748 6747
CONECT 6749 6751 6744 6750
CONECT 6750 6749
CONECT 6751 6752 6753 6749
CONECT 6752 6751
CONECT 6753 6754 6751 6758
CONECT 6754 6755 6753
CONECT 6755 6756 6757 6754
CONECT 6756 6755
CONECT 6757 6755
CONECT 6758 6753 6760 6759
CONECT 6759 6758
CONECT 6760 6761 6758 6762
CONECT 6761 6760
CONECT 6762 6760 6763 6775
CONECT 6763 6764 6762
CONECT 6764 6765 6763
CONECT 6765 6766 6764
CONECT 6766 6768 6765 6767
CONECT 6767 6766
CONECT 6768 6769 6772 6766
CONECT 6769 6771 6770 6768
CONECT 6770 6769
CONECT 6771 6769
CONECT 6772 6774 6768 6773
CONECT 6773 6772
CONECT 6774 6772
CONECT 6775 6762 6777 6776
CONECT 6776 6775
CONECT 6777 6778 6775 6779
CONECT 6778 6777
CONECT 6779 6777 6780 6787
CONECT 6780 6781 6779
CONECT 6781 6782 6780
CONECT 6782 6783 6781 6784
CONECT 6783 6782
CONECT 6784 6782 6786 6785
CONECT 6785 6784
CONECT 6786 6784
CONECT 6787 6779 6788 6789
CONECT 6788 6787
CONECT 6789 6787 6790 6791
CONECT 6790 6789

CONNECT 6791 6789 6792 6796
CONNECT 6792 6791 6793
CONNECT 6793 6792 6795 6794
CONNECT 6794 6793
CONNECT 6795 6793
CONNECT 6796 6791 6797 6798
CONNECT 6797 6796
CONNECT 6798 6796 6799 6800
CONNECT 6799 6798
CONNECT 6800 6798 6804 6801
CONNECT 6801 6803 6800 6802
CONNECT 6802 6801
CONNECT 6803 6801
CONNECT 6804 6805 6800 6806
CONNECT 6805 6804
CONNECT 6806 6804 6808 6807
CONNECT 6807 6806
CONNECT 6808 6812 6806 6809
CONNECT 6809 6808 6810
CONNECT 6810 6809 6811
CONNECT 6811 6810
CONNECT 6812 6814 6813 6808
CONNECT 6813 6812
CONNECT 6814 6816 6815 6812
CONNECT 6815 6814
CONNECT 6816 6817 6828 6814
CONNECT 6817 6818 6816
CONNECT 6818 6820 6819 6817
CONNECT 6819 6823 6818 6824
CONNECT 6820 6821 6818
CONNECT 6821 6822 6823 6820
CONNECT 6822 6821
CONNECT 6823 6825 6821 6819
CONNECT 6824 6826 6819
CONNECT 6825 6827 6823
CONNECT 6826 6827 6824
CONNECT 6827 6825 6826
CONNECT 6828 6830 6816 6829
CONNECT 6829 6828
CONNECT 6830 6831 6832 6828
CONNECT 6831 6830
CONNECT 6832 6833 6830 6840
CONNECT 6833 6834 6832
CONNECT 6834 6836 6835 6833
CONNECT 6835 6837 6834
CONNECT 6836 6838 6834
CONNECT 6837 6839 6835
CONNECT 6838 6839 6836
CONNECT 6839 6838 6837
CONNECT 6840 6832 6841 6842
CONNECT 6841 6840
CONNECT 6842 6840 6843 6844
CONNECT 6843 6842
CONNECT 6844 6842 6845 6849
CONNECT 6845 6846 6844
CONNECT 6846 6847 6848 6845
CONNECT 6847 6846
CONNECT 6848 6846
CONNECT 6849 6844 6851 6850
CONNECT 6850 6849
CONNECT 6851 6852 6849 6853
CONNECT 6852 6851
CONNECT 6853 6858 6851 6854
CONNECT 6854 6853 6855
CONNECT 6855 6854 6856 6857
CONNECT 6856 6855
CONNECT 6857 6855
CONNECT 6858 6860 6859 6853
CONNECT 6859 6858
CONNECT 6860 6861 6862 6858
CONNECT 6861 6863 6865 6860
CONNECT 6862 6864 6860
CONNECT 6863 6864 6861
CONNECT 6864 6863 6862

CONNECT 6865 6867 6861 6866
CONNECT 6866 6865
CONNECT 6867 6868 6869 6865
CONNECT 6868 6867
CONNECT 6869 6878 6867 6870
CONNECT 6870 6869 6871
CONNECT 6871 6870 6872
CONNECT 6872 6871 6873
CONNECT 6873 6872 6874
CONNECT 6874 6873 6876 6877 6875
CONNECT 6874
CONNECT 6875 6874
CONNECT 6876 6874
CONNECT 6877 6874
CONNECT 6878 6880 6879 6869
CONNECT 6879 6878
CONNECT 6880 6882 6881 6878
CONNECT 6881 6880
CONNECT 6882 6889 6883 6880
CONNECT 6883 6882 6884
CONNECT 6884 6883 6885 6886
CONNECT 6885 6884
CONNECT 6886 6884 6887 6888
CONNECT 6887 6886
CONNECT 6888 6886
CONNECT 6889 6891 6890 6882
CONNECT 6890 6889
CONNECT 6891 6893 6892 6889
CONNECT 6892 6891
CONNECT 6893 6898 6894 6891
CONNECT 6894 6895 6893 6897
CONNECT 6895 6896 6894
CONNECT 6896 6895
CONNECT 6897 6894
CONNECT 6898 6899 6900 6893
CONNECT 6899 6898
CONNECT 6900 6902 6898 6901
CONNECT 6901 6900
CONNECT 6902 6907 6903 6900
CONNECT 6903 6906 6902 6904
CONNECT 6904 6903 6905
CONNECT 6905 6904
CONNECT 6906 6903
CONNECT 6907 6908 6909 6902
CONNECT 6908 6907
CONNECT 6909 6911 6907 6910
CONNECT 6910 6909
CONNECT 6911 6912 6909
CONNECT 6912 6913 6911 6914
CONNECT 6913 6912
CONNECT 6914 6912 6916 6915
CONNECT 6915 6914
CONNECT 6916 6918 6914 6917
CONNECT 6917 6916
CONNECT 6918 6919 6920 6916
CONNECT 6919 6918
CONNECT 6920 6922 6918 6921
CONNECT 6921 6920
CONNECT 6922 6927 6923 6920
CONNECT 6923 6922 6924
CONNECT 6924 6923 6926 6925
CONNECT 6925 6924
CONNECT 6926 6924
CONNECT 6927 6928 6929 6922
CONNECT 6928 6927
CONNECT 6929 6931 6927 6930
CONNECT 6930 6929
CONNECT 6931 6936 6932 6929
CONNECT 6932 6935 6931 6933
CONNECT 6933 6932 6934
CONNECT 6934 6933
CONNECT 6935 6932
CONNECT 6936 6937 6938 6931
CONNECT 6937 6936

CONNECT 6938 6940 6936 6939
CONNECT 6939 6938
CONNECT 6940 6945 6938 6941
CONNECT 6941 6940 6944 6942
CONNECT 6942 6941 6943
CONNECT 6943 6942
CONNECT 6944 6941
CONNECT 6945 6946 6940 6947
CONNECT 6946 6945
CONNECT 6947 6945 6949 6948
CONNECT 6948 6947
CONNECT 6949 6962 6947 6950
CONNECT 6950 6949 6951
CONNECT 6951 6950 6952
CONNECT 6952 6951 6953
CONNECT 6953 6952 6955 6954
CONNECT 6954 6953
CONNECT 6955 6956 6953 6959
CONNECT 6956 6957 6958 6955
CONNECT 6957 6956
CONNECT 6958 6956
CONNECT 6959 6955 6961 6960
CONNECT 6960 6959
CONNECT 6961 6959
CONNECT 6962 6963 6964 6949
CONNECT 6963 6962
CONNECT 6964 6966 6962 6965
CONNECT 6965 6964
CONNECT 6966 6971 6967 6964
CONNECT 6967 6966 6968
CONNECT 6968 6967 6969 6970
CONNECT 6969 6968
CONNECT 6970 6968
CONNECT 6971 6972 6973 6966
CONNECT 6972 6971
CONNECT 6973 6975 6971 6974
CONNECT 6974 6973
CONNECT 6975 6976 6977 6973
CONNECT 6976 6975
CONNECT 6977 6978 6975 6979
CONNECT 6978 6977
CONNECT 6979 6977 6981 6980
CONNECT 6980 6979
CONNECT 6981 6988 6979 6982
CONNECT 6982 6981 6983
CONNECT 6983 6982 6984 6985
CONNECT 6984 6983
CONNECT 6985 6983 6987 6986
CONNECT 6986 6985
CONNECT 6987 6985
CONNECT 6988 6989 6981 6990
CONNECT 6989 6988
CONNECT 6990 6988 6992 6991
CONNECT 6991 6990
CONNECT 6992 6997 6990 6993
CONNECT 6993 6992 6994
CONNECT 6994 6993 6995 6996
CONNECT 6995 6994
CONNECT 6996 6994
CONNECT 6997 6999 6998 6992
CONNECT 6998 6997
CONNECT 6999 7001 7000 6997
CONNECT 7000 6999
CONNECT 7001 7003 7002 6999
CONNECT 7002 7001
CONNECT 7003 7005 7004 7001
CONNECT 7004 7003
CONNECT 7005 7007 7006 7003
CONNECT 7006 7005
CONNECT 7007 7008 7009 7005
CONNECT 7008 7007
CONNECT 7009 7010 7007 7011
CONNECT 7010 7009
CONNECT 7011 7009 7013 7012

CONNECT 7012 7011
CONNECT 7013 7011 7021 7014
CONNECT 7014 7013 7015
CONNECT 7015 7016 7014
CONNECT 7016 7018 7017 7015
CONNECT 7017 7016
CONNECT 7018 7019 7020 7016
CONNECT 7019 7018
CONNECT 7020 7018
CONNECT 7021 7022 7013 7023
CONNECT 7022 7021
CONNECT 7023 7021 7025 7024
CONNECT 7024 7023
CONNECT 7025 7029 7023 7026
CONNECT 7026 7025 7027 7028
CONNECT 7027 7026
CONNECT 7028 7026
CONNECT 7029 7031 7030 7025
CONNECT 7030 7029
CONNECT 7031 7033 7032 7029
CONNECT 7032 7031
CONNECT 7033 7034 7042 7031
CONNECT 7034 7035 7033
CONNECT 7035 7036 7034
CONNECT 7036 7037 7035
CONNECT 7037 7036 7038
CONNECT 7038 7040 7037 7039 7041
CONNECT 7038
CONNECT 7039 7038
CONNECT 7040 7038
CONNECT 7041 7038
CONNECT 7042 7043 7044 7033
CONNECT 7043 7042
CONNECT 7044 7046 7042 7045
CONNECT 7045 7044
CONNECT 7046 7044 7047
CONNECT 7047 7048 7046 7049
CONNECT 7048 7047
CONNECT 7049 7047 7050 7051
CONNECT 7050 7049
CONNECT 7051 7053 7049 7052
CONNECT 7052 7051
CONNECT 7053 7055 7054 7051
CONNECT 7054 7053
CONNECT 7055 7057 7056 7053
CONNECT 7056 7055
CONNECT 7057 7062 7058 7055
CONNECT 7058 7060 7059 7057
CONNECT 7059 7061 7058
CONNECT 7060 7058
CONNECT 7061 7059
CONNECT 7062 7064 7063 7057
CONNECT 7063 7062
CONNECT 7064 7066 7065 7062
CONNECT 7065 7064
CONNECT 7066 7067 7064
CONNECT 7067 7068 7066 7069
CONNECT 7068 7067
CONNECT 7069 7067 7071 7070
CONNECT 7070 7069
CONNECT 7071 7069 7075 7072
CONNECT 7072 7071 7073
CONNECT 7073 7072 7074
CONNECT 7074 7073
CONNECT 7075 7076 7071 7077
CONNECT 7076 7075
CONNECT 7077 7075 7079 7078
CONNECT 7078 7077
CONNECT 7079 7092 7077 7080
CONNECT 7080 7079 7081
CONNECT 7081 7080 7082
CONNECT 7082 7081 7083
CONNECT 7083 7082 7084 7085
CONNECT 7084 7083

CONECT 7085 7083 7086 7089
CONECT 7086 7087 7085 7088
CONECT 7087 7086
CONECT 7088 7086
CONECT 7089 7085 7090 7091
CONECT 7090 7089
CONECT 7091 7089
CONECT 7092 7094 7093 7079
CONECT 7093 7092
CONECT 7094 7096 7095 7092
CONECT 7095 7094
CONECT 7096 7101 7097 7094
CONECT 7097 7098 7096
CONECT 7098 7099 7100 7097
CONECT 7099 7098
CONECT 7100 7098
CONECT 7101 7102 7103 7096
CONECT 7102 7101
CONECT 7103 7105 7101 7104
CONECT 7104 7103
CONECT 7105 7106 7107 7103
CONECT 7106 7105
CONECT 7107 7108 7105 7109
CONECT 7108 7107
CONECT 7109 7107 7111 7110
CONECT 7110 7109
CONECT 7111 7115 7109 7112
CONECT 7112 7111 7113 7114
CONECT 7113 7112
CONECT 7114 7112
CONECT 7115 7116 7117 7111
CONECT 7116 7115
CONECT 7117 7119 7115 7118
CONECT 7118 7117
CONECT 7119 7124 7120 7117
CONECT 7120 7122 7121 7119
CONECT 7121 7120 7123
CONECT 7122 7120
CONECT 7123 7121
CONECT 7124 7126 7125 7119
CONECT 7125 7124
CONECT 7126 7128 7127 7124
CONECT 7127 7126
CONECT 7128 7129 7133 7126
CONECT 7129 7130 7128 7132
CONECT 7130 7131 7129
CONECT 7131 7130
CONECT 7132 7129
CONECT 7133 7134 7135 7128
CONECT 7134 7133
CONECT 7135 7137 7133 7136
CONECT 7136 7135
CONECT 7137 7145 7135 7138
CONECT 7138 7137 7139
CONECT 7139 7138 7140
CONECT 7140 7139 7142 7141
CONECT 7141 7140
CONECT 7142 7144 7140 7143
CONECT 7143 7142
CONECT 7144 7142
CONECT 7145 7146 7137 7147
CONECT 7146 7145
CONECT 7147 7145 7149 7148
CONECT 7148 7147
CONECT 7149 7156 7147 7150
CONECT 7150 7149 7151
CONECT 7151 7152 7150 7153
CONECT 7152 7151
CONECT 7153 7151 7155 7154
CONECT 7154 7153
CONECT 7155 7153
CONECT 7156 7157 7158 7149
CONECT 7157 7156
CONECT 7158 7160 7156 7159

CONNECT 7159 7158
CONNECT 7160 7165 7161 7158
CONNECT 7161 7163 7160 7162
CONNECT 7162 7161 7164
CONNECT 7163 7161
CONNECT 7164 7162
CONNECT 7165 7166 7167 7160
CONNECT 7166 7165
CONNECT 7167 7169 7165 7168
CONNECT 7168 7167
CONNECT 7169 7170 7171 7167
CONNECT 7170 7169
CONNECT 7171 7172 7169 7173
CONNECT 7172 7171
CONNECT 7173 7171 7175 7174
CONNECT 7174 7173
CONNECT 7175 7173 7182 7176
CONNECT 7176 7175 7177
CONNECT 7177 7178 7176 7179
CONNECT 7178 7177
CONNECT 7179 7177 7180 7181
CONNECT 7180 7179
CONNECT 7181 7179
CONNECT 7182 7183 7175 7184
CONNECT 7183 7182
CONNECT 7184 7182 7186 7185
CONNECT 7185 7184
CONNECT 7186 7191 7184 7187
CONNECT 7187 7186 7188
CONNECT 7188 7190 7187 7189
CONNECT 7189 7188
CONNECT 7190 7188
CONNECT 7191 7192 7193 7186
CONNECT 7192 7191
CONNECT 7193 7195 7191 7194
CONNECT 7194 7193
CONNECT 7195 7196 7193
CONNECT 7196 7198 7197 7195
CONNECT 7197 7196
CONNECT 7198 7200 7199 7196
CONNECT 7199 7198
CONNECT 7200 7201 7205 7198
CONNECT 7201 7204 7202 7200
CONNECT 7202 7201 7203
CONNECT 7203 7202
CONNECT 7204 7201
CONNECT 7205 7206 7200 7207
CONNECT 7206 7205
CONNECT 7207 7205 7209 7208
CONNECT 7208 7207
CONNECT 7209 7210 7207
CONNECT 7210 7211 7209 7212
CONNECT 7211 7210
CONNECT 7212 7210 7214 7213
CONNECT 7213 7212
CONNECT 7214 7219 7212 7215
CONNECT 7215 7214 7216 7217
CONNECT 7216 7215 7218
CONNECT 7217 7215
CONNECT 7218 7216
CONNECT 7219 7220 7221 7214
CONNECT 7220 7219
CONNECT 7221 7223 7222 7219
CONNECT 7222 7221
CONNECT 7223 7228 7224 7221
CONNECT 7224 7226 7223 7225
CONNECT 7225 7224 7227
CONNECT 7226 7224
CONNECT 7227 7225
CONNECT 7228 7230 7229 7223
CONNECT 7229 7228
CONNECT 7230 7232 7231 7228
CONNECT 7231 7230
CONNECT 7232 7233 7237 7230

CONECT 7233 7235 7234 7232
CONECT 7234 7233 7236
CONECT 7235 7233
CONECT 7236 7234
CONECT 7237 7238 7232 7239
CONECT 7238 7237
CONECT 7239 7237 7241 7240
CONECT 7240 7239
CONECT 7241 7239 7245 7242
CONECT 7242 7241 7243
CONECT 7243 7242 7244
CONECT 7244 7243
CONECT 7245 7246 7247 7241
CONECT 7246 7245
CONECT 7247 7249 7245 7248
CONECT 7248 7247
CONECT 7249 7257 7250 7247
CONECT 7250 7249 7251
CONECT 7251 7250 7252 7253
CONECT 7252 7251 7254
CONECT 7253 7251 7255
CONECT 7254 7252 7256
CONECT 7255 7253 7256
CONECT 7256 7254 7255
CONECT 7257 7259 7258 7249
CONECT 7258 7257
CONECT 7259 7261 7260 7257
CONECT 7260 7259
CONECT 7261 7262 7266 7259
CONECT 7262 7263 7264 7261
CONECT 7263 7265 7262
CONECT 7264 7262
CONECT 7265 7263
CONECT 7266 7267 7261 7268
CONECT 7267 7266
CONECT 7268 7266 7270 7269
CONECT 7269 7268
CONECT 7270 7268 7280 7271
CONECT 7271 7270 7272
CONECT 7272 7273 7271 7274
CONECT 7273 7275 7272
CONECT 7274 7272 7276
CONECT 7275 7273 7277
CONECT 7276 7277 7274
CONECT 7277 7275 7278 7276
CONECT 7278 7277 7279
CONECT 7279 7278
CONECT 7280 7282 7270 7281
CONECT 7281 7280
CONECT 7282 7283 7284 7280
CONECT 7283 7282
CONECT 7284 7282 7285
CONECT 7285 7284 7286 7287
CONECT 7286 7285
CONECT 7287 7285 7288 7289
CONECT 7288 7287
CONECT 7289 7287 7301 7290
CONECT 7290 7289 7291
CONECT 7291 7293 7290 7292
CONECT 7292 7291 7296 7297
CONECT 7293 7294 7291
CONECT 7294 7295 7293 7296
CONECT 7295 7294
CONECT 7296 7294 7292 7298
CONECT 7297 7292 7299
CONECT 7298 7296 7300
CONECT 7299 7297 7300
CONECT 7300 7298 7299
CONECT 7301 7303 7289 7302
CONECT 7302 7301
CONECT 7303 7304 7305 7301
CONECT 7304 7303
CONECT 7305 7306 7303 7313
CONECT 7306 7307 7305

CONECT 7307 7306 7308
CONECT 7308 7307 7310 7309
CONECT 7309 7308
CONECT 7310 7308 7312 7311
CONECT 7311 7310
CONECT 7312 7310
CONECT 7313 7305 7315 7314
CONECT 7314 7313
CONECT 7315 7316 7317 7313
CONECT 7316 7315
CONECT 7317 7318 7315 7322
CONECT 7318 7319 7317
CONECT 7319 7321 7320 7318
CONECT 7320 7319
CONECT 7321 7319
CONECT 7322 7317 7324 7323
CONECT 7323 7322
CONECT 7324 7325 7322 7326
CONECT 7325 7324
CONECT 7326 7324 7327 7331
CONECT 7327 7328 7326 7330
CONECT 7328 7329 7327
CONECT 7329 7328
CONECT 7330 7327
CONECT 7331 7326 7333 7332
CONECT 7332 7331
CONECT 7333 7334 7331 7335
CONECT 7334 7333
CONECT 7335 7333 7340 7336
CONECT 7336 7335 7337
CONECT 7337 7336 7338 7339
CONECT 7338 7337
CONECT 7339 7337
CONECT 7340 7342 7335 7341
CONECT 7341 7340
CONECT 7342 7343 7344 7340
CONECT 7343 7342
CONECT 7344 7345 7342 7349
CONECT 7345 7346 7344
CONECT 7346 7348 7347 7345
CONECT 7347 7346
CONECT 7348 7346
CONECT 7349 7344 7351 7350
CONECT 7350 7349
CONECT 7351 7352 7349 7353
CONECT 7352 7351
CONECT 7353 7354 7351 7358
CONECT 7354 7355 7353
CONECT 7355 7356 7354 7357
CONECT 7356 7355
CONECT 7357 7355
CONECT 7358 7353 7360 7359
CONECT 7359 7358
CONECT 7360 7361 7358 7362
CONECT 7361 7360
CONECT 7362 7360 7363 7367
CONECT 7363 7362 7364
CONECT 7364 7363 7366 7365
CONECT 7365 7364
CONECT 7366 7364
CONECT 7367 7362 7369 7368
CONECT 7368 7367
CONECT 7369 7370 7367 7371
CONECT 7370 7369
CONECT 7371 7369 7372 7373
CONECT 7372 7371
CONECT 7373 7375 7371 7374
CONECT 7374 7373
CONECT 7375 7376 7377 7373
CONECT 7376 7375
CONECT 7377 7378 7375 7382
CONECT 7378 7379 7380 7377
CONECT 7379 7381 7378
CONECT 7380 7378

CONNECT 7381 7379
CONNECT 7382 7377 7384 7383
CONNECT 7383 7382
CONNECT 7384 7385 7382 7386
CONNECT 7385 7384
CONNECT 7386 7387 7384 7390
CONNECT 7387 7389 7386 7388
CONNECT 7388 7387
CONNECT 7389 7387
CONNECT 7390 7386 7391 7392
CONNECT 7391 7390
CONNECT 7392 7390 7394 7393
CONNECT 7393 7392 7397 7395
CONNECT 7394 7392 7396
CONNECT 7395 7396 7393
CONNECT 7396 7394 7395
CONNECT 7397 7399 7393 7398
CONNECT 7398 7397
CONNECT 7399 7400 7401 7397
CONNECT 7400 7399
CONNECT 7401 7402 7399 7406
CONNECT 7402 7404 7401 7403
CONNECT 7403 7402 7405
CONNECT 7404 7402
CONNECT 7405 7403
CONNECT 7406 7408 7401 7407
CONNECT 7407 7406
CONNECT 7408 7409 7410 7406
CONNECT 7409 7408
CONNECT 7410 7411 7408 7415
CONNECT 7411 7412 7413 7410
CONNECT 7412 7414 7411
CONNECT 7413 7411
CONNECT 7414 7412
CONNECT 7415 7410 7417 7416
CONNECT 7416 7415
CONNECT 7417 7418 7415 7419
CONNECT 7418 7417
CONNECT 7419 7417 7420 7421
CONNECT 7420 7419
CONNECT 7421 7419 7423 7422
CONNECT 7422 7421
CONNECT 7423 7424 7421 7425
CONNECT 7424 7423
CONNECT 7425 7423 7430 7426
CONNECT 7426 7425 7427 7428
CONNECT 7427 7426 7429
CONNECT 7428 7426
CONNECT 7429 7427
CONNECT 7430 7432 7425 7431
CONNECT 7431 7430
CONNECT 7432 7433 7434 7430
CONNECT 7433 7432
CONNECT 7434 7435 7432 7436
CONNECT 7435 7434
CONNECT 7436 7438 7434 7437
CONNECT 7437 7436
CONNECT 7438 7439 7440 7436
CONNECT 7439 7438
CONNECT 7440 7438 7441
CONNECT 7441 7440 7442 7443
CONNECT 7442 7441
CONNECT 7443 7441 7444 7445
CONNECT 7444 7443
CONNECT 7445 7443 7446 7449
CONNECT 7446 7445 7447 7448
CONNECT 7447 7446
CONNECT 7448 7446
CONNECT 7449 7445 7451 7450
CONNECT 7450 7449
CONNECT 7451 7452 7449 7453
CONNECT 7452 7451
CONNECT 7453 7451 7454 7457
CONNECT 7454 7455 7453 7456

CONNECT 7455 7454
CONNECT 7456 7454
CONNECT 7457 7459 7453 7458
CONNECT 7458 7457
CONNECT 7459 7460 7461 7457
CONNECT 7460 7459
CONNECT 7461 7462 7459 7467
CONNECT 7462 7463 7461
CONNECT 7463 7464 7462
CONNECT 7464 7466 7465 7463
CONNECT 7465 7464
CONNECT 7466 7464
CONNECT 7467 7461 7469 7468
CONNECT 7468 7467
CONNECT 7469 7470 7467 7471
CONNECT 7470 7469
CONNECT 7471 7469 7472 7476
CONNECT 7472 7471 7473
CONNECT 7473 7472 7474
CONNECT 7474 7473 7475
CONNECT 7475 7474
CONNECT 7476 7471 7478 7477
CONNECT 7477 7476
CONNECT 7478 7479 7476 7480
CONNECT 7479 7478
CONNECT 7480 7478 7481 7489
CONNECT 7481 7480 7482
CONNECT 7482 7481 7483
CONNECT 7483 7484 7482
CONNECT 7484 7485 7483
CONNECT 7485 7486 7488 7484 7487
CONNECT 7485
CONNECT 7486 7485
CONNECT 7487 7485
CONNECT 7488 7485
CONNECT 7489 7491 7480 7490
CONNECT 7490 7489
CONNECT 7491 7492 7493 7489
CONNECT 7492 7491
CONNECT 7493 7494 7491 7498
CONNECT 7494 7495 7493
CONNECT 7495 7494 7496
CONNECT 7496 7495 7497
CONNECT 7497 7496
CONNECT 7498 7500 7493 7499
CONNECT 7499 7498
CONNECT 7500 7501 7502 7498
CONNECT 7501 7500
CONNECT 7502 7503 7500 7507
CONNECT 7503 7504 7502
CONNECT 7504 7506 7505 7503
CONNECT 7505 7504
CONNECT 7506 7504
CONNECT 7507 7502 7508 7509
CONNECT 7508 7507
CONNECT 7509 7507 7510 7511
CONNECT 7510 7509
CONNECT 7511 7509 7512 7515
CONNECT 7512 7511 7513
CONNECT 7513 7512 7514
CONNECT 7514 7513
CONNECT 7515 7511 7517 7516
CONNECT 7516 7515
CONNECT 7517 7518 7515 7519
CONNECT 7518 7517
CONNECT 7519 7517 7520
CONNECT 7520 7522 7519 7521
CONNECT 7521 7520
CONNECT 7522 7523 7524 7520
CONNECT 7523 7522
CONNECT 7524 7525 7532 7522
CONNECT 7525 7526 7524
CONNECT 7526 7525 7527
CONNECT 7527 7526 7528 7529

CONNECT 7528 7527
CONNECT 7529 7527 7531 7530
CONNECT 7530 7529
CONNECT 7531 7529
CONNECT 7532 7534 7524 7533
CONNECT 7533 7532
CONNECT 7534 7535 7536 7532
CONNECT 7535 7534
CONNECT 7536 7537 7534 7538
CONNECT 7537 7536
CONNECT 7538 7536 7539 7540
CONNECT 7539 7538
CONNECT 7540 7538 7541 7542
CONNECT 7541 7540
CONNECT 7542 7540 7543 7547
CONNECT 7543 7542 7544
CONNECT 7544 7543 7546 7545
CONNECT 7545 7544
CONNECT 7546 7544
CONNECT 7547 7542 7549 7548
CONNECT 7548 7547
CONNECT 7549 7550 7547 7551
CONNECT 7550 7549
CONNECT 7551 7549 7552 7560
CONNECT 7552 7553 7551
CONNECT 7553 7554 7552
CONNECT 7554 7553 7555
CONNECT 7555 7554 7556
CONNECT 7556 7558 7555 7559 7557
CONNECT 7556
CONNECT 7557 7556
CONNECT 7558 7556
CONNECT 7559 7556
CONNECT 7560 7562 7551 7561
CONNECT 7561 7560
CONNECT 7562 7563 7564 7560
CONNECT 7563 7562
CONNECT 7564 7565 7562 7569
CONNECT 7565 7566 7564
CONNECT 7566 7568 7567 7565
CONNECT 7567 7566
CONNECT 7568 7566
CONNECT 7569 7564 7571 7570
CONNECT 7570 7569
CONNECT 7571 7572 7569 7573
CONNECT 7572 7571
CONNECT 7573 7571 7574 7582
CONNECT 7574 7573 7575
CONNECT 7575 7576 7574
CONNECT 7576 7577 7575
CONNECT 7577 7578 7576
CONNECT 7578 7579 7580 7577 7581
CONNECT 7578
CONNECT 7579 7578
CONNECT 7580 7578
CONNECT 7581 7578
CONNECT 7582 7573 7583 7584
CONNECT 7583 7582
CONNECT 7584 7582 7585 7586
CONNECT 7585 7584
CONNECT 7586 7584 7595 7587
CONNECT 7587 7586 7588
CONNECT 7588 7587 7589
CONNECT 7589 7588 7590
CONNECT 7590 7589 7591
CONNECT 7591 7590 7593 7592 7594
CONNECT 7591
CONNECT 7592 7591
CONNECT 7593 7591
CONNECT 7594 7591
CONNECT 7595 7597 7586 7596
CONNECT 7596 7595
CONNECT 7597 7598 7599 7595
CONNECT 7598 7597

CONNECT 7599 7600 7597 7605
CONNECT 7600 7601 7599
CONNECT 7601 7602 7600
CONNECT 7602 7603 7604 7601
CONNECT 7603 7602
CONNECT 7604 7602
CONNECT 7605 7607 7599 7606
CONNECT 7606 7605
CONNECT 7607 7608 7609 7605
CONNECT 7608 7607
CONNECT 7609 7610 7607 7614
CONNECT 7610 7611 7609
CONNECT 7611 7613 7610 7612
CONNECT 7612 7611
CONNECT 7613 7611
CONNECT 7614 7609 7615 7616
CONNECT 7615 7614
CONNECT 7616 7614 7617 7618
CONNECT 7617 7616
CONNECT 7618 7616 7619 7624
CONNECT 7619 7618 7620
CONNECT 7620 7619 7621
CONNECT 7621 7622 7620 7623
CONNECT 7622 7621
CONNECT 7623 7621
CONNECT 7624 7618 7626 7625
CONNECT 7625 7624
CONNECT 7626 7627 7624 7628
CONNECT 7627 7626
CONNECT 7628 7626 7629
CONNECT 7629 7631 7628 7630
CONNECT 7630 7629
CONNECT 7631 7632 7633 7629
CONNECT 7632 7631
CONNECT 7633 7634 7637 7631
CONNECT 7634 7635 7633
CONNECT 7635 7636 7634
CONNECT 7636 7635
CONNECT 7637 7639 7633 7638
CONNECT 7638 7637
CONNECT 7639 7640 7641 7637
CONNECT 7640 7639
CONNECT 7641 7639 7642
CONNECT 7642 7641 7643 7644
CONNECT 7643 7642
CONNECT 7644 7642 7645 7646
CONNECT 7645 7644
CONNECT 7646 7644 7655 7647
CONNECT 7647 7646 7648
CONNECT 7648 7647 7649
CONNECT 7649 7648 7650
CONNECT 7650 7649 7651
CONNECT 7651 7650 7654 7653 7652
CONNECT 7651
CONNECT 7652 7651
CONNECT 7653 7651
CONNECT 7654 7651
CONNECT 7655 7646 7657 7656
CONNECT 7656 7655
CONNECT 7657 7658 7655 7659
CONNECT 7658 7657
CONNECT 7659 7657 7664 7660
CONNECT 7660 7659 7661 7662
CONNECT 7661 7660 7663
CONNECT 7662 7660
CONNECT 7663 7661
CONNECT 7664 7666 7665 7659
CONNECT 7665 7664
CONNECT 7666 7668 7667 7664
CONNECT 7667 7666
CONNECT 7668 7669 7670 7666
CONNECT 7669 7668
CONNECT 7670 7668 7672 7671
CONNECT 7671 7670

CONECT 7672 7673 7670 7674
CONECT 7673 7672
CONECT 7674 7672 7675 7679
CONECT 7675 7676 7674 7678
CONECT 7676 7677 7675
CONECT 7677 7676
CONECT 7678 7675
CONECT 7679 7674 7680 7681
CONECT 7680 7679
CONECT 7681 7679 7682 7683
CONECT 7682 7681
CONECT 7683 7681 7689 7684
CONECT 7684 7683 7685
CONECT 7685 7684 7686
CONECT 7686 7685 7688 7687
CONECT 7687 7686
CONECT 7688 7686
CONECT 7689 7691 7683 7690
CONECT 7690 7689
CONECT 7691 7692 7693 7689
CONECT 7692 7691
CONECT 7693 7695 7694 7691
CONECT 7694 7693
CONECT 7695 7697 7696 7693
CONECT 7696 7695
CONECT 7697 7699 7698 7695
CONECT 7698 7697
CONECT 7699 7700 7704 7697
CONECT 7700 7702 7701 7699
CONECT 7701 7703 7700
CONECT 7702 7700
CONECT 7703 7701
CONECT 7704 7699 7705 7706
CONECT 7705 7704
CONECT 7706 7704 7707 7708
CONECT 7707 7706
CONECT 7708 7706 7709 7714
CONECT 7709 7708 7710
CONECT 7710 7709 7711
CONECT 7711 7713 7710 7712
CONECT 7712 7711
CONECT 7713 7711
CONECT 7714 7708 7715 7716
CONECT 7715 7714
CONECT 7716 7714 7717 7718
CONECT 7717 7716
CONECT 7718 7716 7725 7719
CONECT 7719 7718 7720
CONECT 7720 7719 7722 7721
CONECT 7721 7720
CONECT 7722 7723 7720 7724
CONECT 7723 7722
CONECT 7724 7722
CONECT 7725 7727 7718 7726
CONECT 7726 7725
CONECT 7727 7728 7729 7725
CONECT 7728 7727
CONECT 7729 7730 7727 7737
CONECT 7730 7729 7731
CONECT 7731 7730 7733 7732
CONECT 7732 7731 7734
CONECT 7733 7731 7735
CONECT 7734 7732 7736
CONECT 7735 7733 7736
CONECT 7736 7735 7734
CONECT 7737 7729 7738 7739
CONECT 7738 7737
CONECT 7739 7737 7740 7741
CONECT 7740 7739
CONECT 7741 7739 7754 7742
CONECT 7742 7741 7743
CONECT 7743 7744 7742
CONECT 7744 7745 7743
CONECT 7745 7747 7746 7744

CONNECT 7746 7745
CONNECT 7747 7751 7748 7745
CONNECT 7748 7750 7747 7749
CONNECT 7749 7748
CONNECT 7750 7748
CONNECT 7751 7753 7752 7747
CONNECT 7752 7751
CONNECT 7753 7751
CONNECT 7754 7756 7741 7755
CONNECT 7755 7754
CONNECT 7756 7757 7758 7754
CONNECT 7757 7756
CONNECT 7758 7759 7763 7756
CONNECT 7759 7762 7760 7758
CONNECT 7760 7759 7761
CONNECT 7761 7760
CONNECT 7762 7759
CONNECT 7763 7765 7758 7764
CONNECT 7764 7763
CONNECT 7765 7766 7767 7763
CONNECT 7766 7765
CONNECT 7767 7768 7765 7771
CONNECT 7768 7769 7770 7767
CONNECT 7769 7768
CONNECT 7770 7768
CONNECT 7771 7767 7772 7773
CONNECT 7772 7771
CONNECT 7773 7771 7774 7775
CONNECT 7774 7773
CONNECT 7775 7773 7776 7779
CONNECT 7776 7775 7777 7778
CONNECT 7777 7776
CONNECT 7778 7776
CONNECT 7779 7775 7781 7780
CONNECT 7780 7779
CONNECT 7781 7782 7779 7783
CONNECT 7782 7781
CONNECT 7783 7787 7781 7784
CONNECT 7784 7783 7785
CONNECT 7785 7784 7786
CONNECT 7786 7785
CONNECT 7787 7789 7788 7783
CONNECT 7788 7787
CONNECT 7789 7791 7790 7787
CONNECT 7790 7789
CONNECT 7791 7792 7796 7789
CONNECT 7792 7793 7791
CONNECT 7793 7794 7795 7792
CONNECT 7794 7793
CONNECT 7795 7793
CONNECT 7796 7797 7791 7798
CONNECT 7797 7796
CONNECT 7798 7796 7799 7800
CONNECT 7799 7798
CONNECT 7800 7805 7798 7801
CONNECT 7801 7800 7802 7804
CONNECT 7802 7803 7801
CONNECT 7803 7802
CONNECT 7804 7801
CONNECT 7805 7807 7806 7800
CONNECT 7806 7805
CONNECT 7807 7809 7808 7805
CONNECT 7808 7807
CONNECT 7809 7817 7810 7807
CONNECT 7810 7811 7809
CONNECT 7811 7812 7810
CONNECT 7812 7813 7811 7814
CONNECT 7813 7812
CONNECT 7814 7812 7816 7815
CONNECT 7815 7814
CONNECT 7816 7814
CONNECT 7817 7819 7818 7809
CONNECT 7818 7817
CONNECT 7819 7821 7820 7817

CONNECT 7820 7819
CONNECT 7821 7827 7822 7819
CONNECT 7822 7821 7823
CONNECT 7823 7822 7824
CONNECT 7824 7826 7825 7823
CONNECT 7825 7824
CONNECT 7826 7824
CONNECT 7827 7829 7828 7821
CONNECT 7828 7827
CONNECT 7829 7831 7830 7827
CONNECT 7830 7829
CONNECT 7831 7832 7839 7829
CONNECT 7832 7833 7831
CONNECT 7833 7834 7832
CONNECT 7834 7835 7836 7833
CONNECT 7835 7834
CONNECT 7836 7837 7838 7834
CONNECT 7837 7836
CONNECT 7838 7836
CONNECT 7839 7831 7840 7841
CONNECT 7840 7839
CONNECT 7841 7839 7842 7843
CONNECT 7842 7841
CONNECT 7843 7841 7852 7844
CONNECT 7844 7843 7845
CONNECT 7845 7844 7846
CONNECT 7846 7845 7847
CONNECT 7847 7846 7848
CONNECT 7848 7850 7847 7851 7849
CONNECT 7848
CONNECT 7849 7848
CONNECT 7850 7848
CONNECT 7851 7848
CONNECT 7852 7854 7853 7843
CONNECT 7853 7852
CONNECT 7854 7856 7855 7852
CONNECT 7855 7854
CONNECT 7856 7864 7857 7854
CONNECT 7857 7856 7858
CONNECT 7858 7857 7860 7859
CONNECT 7859 7858 7861
CONNECT 7860 7858 7862
CONNECT 7861 7859 7863
CONNECT 7862 7860 7863
CONNECT 7863 7862 7861
CONNECT 7864 7866 7865 7856
CONNECT 7865 7864
CONNECT 7866 7868 7867 7864
CONNECT 7867 7866
CONNECT 7868 7869 7874 7866
CONNECT 7869 7870 7868
CONNECT 7870 7871 7869
CONNECT 7871 7872 7873 7870
CONNECT 7872 7871
CONNECT 7873 7871
CONNECT 7874 7875 7868 7876
CONNECT 7875 7874
CONNECT 7876 7874 7878 7877
CONNECT 7877 7876
CONNECT 7878 7876 7887 7882
CONNECT 7879 7881 7886 7880
CONNECT 7880 7879
CONNECT 7881 7885 7882 7879
CONNECT 7882 7878 7881
CONNECT 7883 7884 7885 7886
CONNECT 7884 7883
CONNECT 7885 7883 7881
CONNECT 7886 7883 7879
CONNECT 7887 7888 7878 7889
CONNECT 7888 7887
CONNECT 7889 7887 7890 7891
CONNECT 7890 7889
CONNECT 7891 7896 7889 7892
CONNECT 7892 7891 7893

CONNECT 7893 7892 7894
CONNECT 7894 7893 7895
CONNECT 7895 7894
CONNECT 7896 7898 7897 7891
CONNECT 7897 7896
CONNECT 7898 7900 7899 7896
CONNECT 7899 7898
CONNECT 7900 7910 7901 7898
CONNECT 7901 7900 7902
CONNECT 7902 7901 7904 7903
CONNECT 7903 7902 7905
CONNECT 7904 7902 7906
CONNECT 7905 7903 7907
CONNECT 7906 7904 7907
CONNECT 7907 7906 7905 7908
CONNECT 7908 7907 7909
CONNECT 7909 7908
CONNECT 7910 7911 7912 7900
CONNECT 7911 7910
CONNECT 7912 7914 7910 7913
CONNECT 7913 7912
CONNECT 7914 7915 7916 7912
CONNECT 7915 7914
CONNECT 7916 7917 7914 7918
CONNECT 7917 7916
CONNECT 7918 7916 7920 7919
CONNECT 7919 7918
CONNECT 7920 7928 7918 7921
CONNECT 7921 7920 7922
CONNECT 7922 7923 7921
CONNECT 7923 7924 7925 7922
CONNECT 7924 7923
CONNECT 7925 7923 7927 7926
CONNECT 7926 7925
CONNECT 7927 7925
CONNECT 7928 7929 7920 7930
CONNECT 7929 7928
CONNECT 7930 7928 7932 7931
CONNECT 7931 7930
CONNECT 7932 7936 7930 7933
CONNECT 7933 7932 7934
CONNECT 7934 7933 7935
CONNECT 7935 7934
CONNECT 7936 7938 7937 7932
CONNECT 7937 7936
CONNECT 7938 7940 7939 7936
CONNECT 7939 7938
CONNECT 7940 7941 7945 7938
CONNECT 7941 7942 7940
CONNECT 7942 7943 7941 7944
CONNECT 7943 7942
CONNECT 7944 7942
CONNECT 7945 7946 7947 7940
CONNECT 7946 7945
CONNECT 7947 7949 7945 7948
CONNECT 7948 7947
CONNECT 7949 7957 7947 7950
CONNECT 7950 7949 7951
CONNECT 7951 7950 7952
CONNECT 7952 7951 7953 7954
CONNECT 7953 7952
CONNECT 7954 7952 7955 7956
CONNECT 7955 7954
CONNECT 7956 7954
CONNECT 7957 7958 7949 7959
CONNECT 7958 7957
CONNECT 7959 7957 7961 7960
CONNECT 7960 7959
CONNECT 7961 7965 7959 7962
CONNECT 7962 7961 7963 7964
CONNECT 7963 7962
CONNECT 7964 7962
CONNECT 7965 7966 7967 7961
CONNECT 7966 7965

CONECT 7967 7968 7965 7969
CONECT 7968 7972 7970 7967
CONECT 7969 7967 7971
CONECT 7970 7968 7971
CONECT 7971 7970 7969
CONECT 7972 7973 7974 7968
CONECT 7973 7972
CONECT 7974 7976 7972 7975
CONECT 7975 7974
CONECT 7976 7986 7977 7974
CONECT 7977 7978 7976
CONECT 7978 7979 7980 7977
CONECT 7979 7981 7978
CONECT 7980 7982 7978
CONECT 7981 7983 7979
CONECT 7982 7983 7980
CONECT 7983 7984 7981 7982
CONECT 7984 7985 7983
CONECT 7985 7984
CONECT 7986 7987 7976 7988
CONECT 7987 7986
CONECT 7988 7986 7990 7989
CONECT 7989 7988
CONECT 7990 8003 7988 7991
CONECT 7991 7990 7992
CONECT 7992 7991 7993
CONECT 7993 7992 7994
CONECT 7994 7993 7995 7996
CONECT 7995 7994
CONECT 7996 7994 7997 8000
CONECT 7997 7999 7996 7998
CONECT 7998 7997
CONECT 7999 7997
CONECT 8000 7996 8002 8001
CONECT 8001 8000
CONECT 8002 8000
CONECT 8003 8004 7990 8005
CONECT 8004 8003
CONECT 8005 8003 8007 8006
CONECT 8006 8005
CONECT 8007 8014 8005 8008
CONECT 8008 8007 8009
CONECT 8009 8010 8008 8011
CONECT 8010 8009
CONECT 8011 8009 8012 8013
CONECT 8012 8011
CONECT 8013 8011
CONECT 8014 8015 8016 8007
CONECT 8015 8014
CONECT 8016 8018 8014 8017
CONECT 8017 8016
CONECT 8018 8022 8019 8016
CONECT 8019 8020 8018
CONECT 8020 8021 8019
CONECT 8021 8020
CONECT 8022 8023 8024 8018
CONECT 8023 8022
CONECT 8024 8026 8022 8025
CONECT 8025 8024
CONECT 8026 8031 8027 8024
CONECT 8027 8026 8028
CONECT 8028 8030 8027 8029
CONECT 8029 8028
CONECT 8030 8028
CONECT 8031 8032 8026 8033
CONECT 8032 8031
CONECT 8033 8031 8035 8034
CONECT 8034 8033
CONECT 8035 8048 8033 8036
CONECT 8036 8035 8037
CONECT 8037 8038 8036
CONECT 8038 8037 8039
CONECT 8039 8038 8041 8040
CONECT 8040 8039

CONNECT 8041 8042 8039 8045
CONNECT 8042 8043 8044 8041
CONNECT 8043 8042
CONNECT 8044 8042
CONNECT 8045 8041 8047 8046
CONNECT 8046 8045
CONNECT 8047 8045
CONNECT 8048 8049 8035 8050
CONNECT 8049 8048
CONNECT 8050 8048 8052 8051
CONNECT 8051 8050
CONNECT 8052 8061 8050 8053
CONNECT 8053 8052 8054
CONNECT 8054 8053 8055
CONNECT 8055 8054 8056
CONNECT 8056 8057 8055
CONNECT 8057 8060 8059 8058 8056
CONNECT 8057
CONNECT 8058 8057
CONNECT 8059 8057
CONNECT 8060 8057
CONNECT 8061 8062 8063 8052
CONNECT 8062 8061
CONNECT 8063 8065 8064 8061
CONNECT 8064 8063
CONNECT 8065 8067 8066 8063
CONNECT 8066 8065
CONNECT 8067 8068 8069 8065
CONNECT 8068 8067
CONNECT 8069 8071 8067 8070
CONNECT 8070 8069
CONNECT 8071 8080 8075 8069
CONNECT 8072 8079 8074 8073
CONNECT 8073 8072
CONNECT 8074 8078 8075 8072
CONNECT 8075 8071 8074
CONNECT 8076 8077 8078 8079
CONNECT 8077 8076
CONNECT 8078 8076 8074
CONNECT 8079 8076 8072
CONNECT 8080 8081 8071 8082
CONNECT 8081 8080
CONNECT 8082 8080 8084 8083
CONNECT 8083 8082
CONNECT 8084 8089 8082 8085
CONNECT 8085 8084 8086 8087
CONNECT 8086 8088 8085
CONNECT 8087 8085
CONNECT 8088 8086
CONNECT 8089 8090 8091 8084
CONNECT 8090 8089
CONNECT 8091 8093 8089 8092
CONNECT 8092 8091
CONNECT 8093 8101 8094 8091
CONNECT 8094 8093 8095
CONNECT 8095 8094 8096 8097
CONNECT 8096 8095 8098
CONNECT 8097 8095 8099
CONNECT 8098 8096 8100
CONNECT 8099 8097 8100
CONNECT 8100 8098 8099
CONNECT 8101 8102 8103 8093
CONNECT 8102 8101
CONNECT 8103 8105 8101 8104
CONNECT 8104 8103
CONNECT 8105 8106 8103
CONNECT 8106 8107 8105 8108
CONNECT 8107 8106
CONNECT 8108 8106 8110 8109
CONNECT 8109 8108
CONNECT 8110 8115 8108 8111
CONNECT 8111 8110 8112 8113
CONNECT 8112 8111 8114
CONNECT 8113 8111

CONECT 8114 8112
CONECT 8115 8116 8110 8117
CONECT 8116 8115
CONECT 8117 8115 8119 8118
CONECT 8118 8117
CONECT 8119 8124 8117 8120
CONECT 8120 8119 8121 8123
CONECT 8121 8122 8120
CONECT 8122 8121
CONECT 8123 8120
CONECT 8124 8125 8126 8119
CONECT 8125 8124
CONECT 8126 8128 8124 8127
CONECT 8127 8126
CONECT 8128 8136 8129 8126
CONECT 8129 8130 8128
CONECT 8130 8132 8131 8129
CONECT 8131 8133 8130
CONECT 8132 8134 8130
CONECT 8133 8135 8131
CONECT 8134 8135 8132
CONECT 8135 8134 8133
CONECT 8136 8137 8138 8128
CONECT 8137 8136
CONECT 8138 8140 8136 8139
CONECT 8139 8138
CONECT 8140 8141 8144 8138
CONECT 8141 8140 8142
CONECT 8142 8141 8143
CONECT 8143 8142
CONECT 8144 8145 8140 8146
CONECT 8145 8144
CONECT 8146 8144 8148 8147
CONECT 8147 8146
CONECT 8148 8156 8146 8149
CONECT 8149 8148 8150
CONECT 8150 8152 8149 8151
CONECT 8151 8150 8153
CONECT 8152 8154 8150
CONECT 8153 8155 8151
CONECT 8154 8152 8155
CONECT 8155 8154 8153
CONECT 8156 8157 8158 8148
CONECT 8157 8156
CONECT 8158 8160 8156 8159
CONECT 8159 8158
CONECT 8160 8165 8158 8161
CONECT 8161 8164 8160 8162
CONECT 8162 8161 8163
CONECT 8163 8162
CONECT 8164 8161
CONECT 8165 8167 8166 8160
CONECT 8166 8165
CONECT 8167 8169 8168 8165
CONECT 8168 8167
CONECT 8169 8177 8170 8167
CONECT 8170 8169 8171
CONECT 8171 8170 8172
CONECT 8172 8174 8171 8173
CONECT 8173 8172
CONECT 8174 8175 8176 8172
CONECT 8175 8174
CONECT 8176 8174
CONECT 8177 8178 8169 8179
CONECT 8178 8177
CONECT 8179 8177 8181 8180
CONECT 8180 8179
CONECT 8181 8183 8179 8182
CONECT 8182 8181
CONECT 8183 8184 8181 8185
CONECT 8184 8183
CONECT 8185 8183 8187 8186
CONECT 8186 8185
CONECT 8187 8192 8185 8188

CONECT 8188 8187 8189
CONECT 8189 8188 8190
CONECT 8190 8189 8191
CONECT 8191 8190
CONECT 8192 8193 8194 8187
CONECT 8193 8192
CONECT 8194 8196 8195 8192
CONECT 8195 8194
CONECT 8196 8201 8197 8194
CONECT 8197 8198 8196
CONECT 8198 8199 8197
CONECT 8199 8200 8198
CONECT 8200 8199
CONECT 8201 8202 8203 8196
CONECT 8202 8201
CONECT 8203 8205 8201 8204
CONECT 8204 8203
CONECT 8205 8206 8215 8203
CONECT 8206 8205 8207
CONECT 8207 8206 8209 8208
CONECT 8208 8207 8210
CONECT 8209 8207 8211
CONECT 8210 8208 8212
CONECT 8211 8209 8212
CONECT 8212 8211 8210 8213
CONECT 8213 8212 8214
CONECT 8214 8213
CONECT 8215 8216 8205 8217
CONECT 8216 8215
CONECT 8217 8215 8219 8218
CONECT 8218 8217
CONECT 8219 8217 8227 8220
CONECT 8220 8219 8221
CONECT 8221 8220 8222 8223
CONECT 8222 8221 8224
CONECT 8223 8221 8225
CONECT 8224 8222 8226
CONECT 8225 8223 8226
CONECT 8226 8224 8225
CONECT 8227 8228 8219 8229
CONECT 8228 8227
CONECT 8229 8227 8231 8230
CONECT 8230 8229
CONECT 8231 8235 8229 8232
CONECT 8232 8231 8233
CONECT 8233 8234 8232
CONECT 8234 8233
CONECT 8235 8237 8236 8231
CONECT 8236 8235
CONECT 8237 8239 8238 8235
CONECT 8238 8237
CONECT 8239 8240 8249 8237
CONECT 8240 8241 8239
CONECT 8241 8243 8240 8242
CONECT 8242 8241 8244
CONECT 8243 8245 8241
CONECT 8244 8246 8242
CONECT 8245 8243 8246
CONECT 8246 8245 8247 8244
CONECT 8247 8246 8248
CONECT 8248 8247
CONECT 8249 8250 8251 8239
CONECT 8250 8249
CONECT 8251 8253 8249 8252
CONECT 8252 8251
CONECT 8253 8254 8255 8251
CONECT 8254 8253
CONECT 8255 8256 8253 8257
CONECT 8256 8255
CONECT 8257 8255 8259 8258
CONECT 8258 8257
CONECT 8259 8260 8257
CONECT 8260 8261 8262 8259
CONECT 8261 8260

CONECT 8262 8264 8260 8263
CONECT 8263 8262
CONECT 8264 8267 8265 8262
CONECT 8265 8264 8266
CONECT 8266 8265
CONECT 8267 8269 8268 8264
CONECT 8268 8267
CONECT 8269 8271 8270 8267
CONECT 8270 8269
CONECT 8271 8272 8279 8269
CONECT 8272 8273 8271
CONECT 8273 8274 8272 8275
CONECT 8274 8276 8273
CONECT 8275 8273 8277
CONECT 8276 8274 8278
CONECT 8277 8278 8275
CONECT 8278 8276 8277
CONECT 8279 8280 8271 8281
CONECT 8280 8279
CONECT 8281 8279 8283 8282
CONECT 8282 8281
CONECT 8283 8281 8296 8284
CONECT 8284 8283 8285
CONECT 8285 8286 8284
CONECT 8286 8287 8285
CONECT 8287 8288 8289 8286
CONECT 8288 8287
CONECT 8289 8293 8287 8290
CONECT 8290 8289 8292 8291
CONECT 8291 8290
CONECT 8292 8290
CONECT 8293 8294 8295 8289
CONECT 8294 8293
CONECT 8295 8293
CONECT 8296 8297 8283 8298
CONECT 8297 8296
CONECT 8298 8296 8300 8299
CONECT 8299 8298
CONECT 8300 8308 8298 8301
CONECT 8301 8300 8302
CONECT 8302 8301 8304 8303
CONECT 8303 8302 8305
CONECT 8304 8302 8306
CONECT 8305 8303 8307
CONECT 8306 8304 8307
CONECT 8307 8306 8305
CONECT 8308 8309 8310 8300
CONECT 8309 8308
CONECT 8310 8312 8308 8311
CONECT 8311 8310
CONECT 8312 8313 8310
CONECT 8313 8315 8314 8312
CONECT 8314 8313
CONECT 8315 8317 8316 8313
CONECT 8316 8315
CONECT 8317 8318 8319 8315
CONECT 8318 8317
CONECT 8319 8320 8317 8321
CONECT 8320 8319
CONECT 8321 8319 8323 8322
CONECT 8322 8321
CONECT 8323 8333 8321 8324
CONECT 8324 8323 8325
CONECT 8325 8324 8327 8326
CONECT 8326 8325 8328
CONECT 8327 8325 8329
CONECT 8328 8326 8330
CONECT 8329 8327 8330
CONECT 8330 8329 8328 8331
CONECT 8331 8330 8332
CONECT 8332 8331
CONECT 8333 8335 8334 8323
CONECT 8334 8333
CONECT 8335 8337 8336 8333

CONNECT 8336 8335
CONNECT 8337 8342 8338 8335
CONNECT 8338 8339 8337
CONNECT 8339 8340 8341 8338
CONNECT 8340 8339
CONNECT 8341 8339
CONNECT 8342 8344 8343 8337
CONNECT 8343 8342
CONNECT 8344 8346 8345 8342
CONNECT 8345 8344
CONNECT 8346 8350 8347 8344
CONNECT 8347 8349 8346 8348
CONNECT 8348 8347
CONNECT 8349 8347
CONNECT 8350 8351 8352 8346
CONNECT 8351 8350
CONNECT 8352 8354 8350 8353
CONNECT 8353 8352
CONNECT 8354 8356 8355 8352
CONNECT 8355 8354
CONNECT 8356 8358 8357 8354
CONNECT 8357 8356
CONNECT 8358 8360 8359 8356
CONNECT 8359 8358
CONNECT 8360 8364 8369 8358
CONNECT 8361 8362 8363 8368
CONNECT 8362 8361
CONNECT 8363 8364 8361 8367
CONNECT 8364 8360 8363
CONNECT 8365 8367 8368 8366
CONNECT 8366 8365
CONNECT 8367 8363 8365
CONNECT 8368 8361 8365
CONNECT 8369 8360 8370 8371
CONNECT 8370 8369
CONNECT 8371 8369 8372 8373
CONNECT 8372 8371
CONNECT 8373 8374 8371 8382
CONNECT 8374 8375 8373
CONNECT 8375 8374 8376
CONNECT 8376 8375 8377
CONNECT 8377 8376 8378
CONNECT 8378 8381 8380 8377 8379
CONNECT 8378
CONNECT 8379 8378
CONNECT 8380 8378
CONNECT 8381 8378
CONNECT 8382 8373 8383 8384
CONNECT 8383 8382
CONNECT 8384 8382 8385 8386
CONNECT 8385 8384
CONNECT 8386 8384 8391 8387
CONNECT 8387 8386 8388
CONNECT 8388 8387 8390 8389
CONNECT 8389 8388
CONNECT 8390 8388
CONNECT 8391 8386 8392 8393
CONNECT 8392 8391
CONNECT 8393 8391 8394 8395
CONNECT 8394 8393
CONNECT 8395 8393 8400 8396
CONNECT 8396 8395 8397
CONNECT 8397 8396 8398
CONNECT 8398 8399 8397
CONNECT 8399 8398
CONNECT 8400 8402 8395 8401
CONNECT 8401 8400
CONNECT 8402 8403 8404 8400
CONNECT 8403 8402
CONNECT 8404 8408 8402 8405
CONNECT 8405 8406 8404
CONNECT 8406 8407 8405
CONNECT 8407 8406
CONNECT 8408 8409 8410 8404

CONNECT 8409 8408
CONNECT 8410 8412 8408 8411
CONNECT 8411 8410
CONNECT 8412 8413 8420 8410
CONNECT 8413 8414 8412
CONNECT 8414 8413 8416 8415
CONNECT 8415 8414 8417
CONNECT 8416 8414 8418
CONNECT 8417 8415 8419
CONNECT 8418 8416 8419
CONNECT 8419 8418 8417
CONNECT 8420 8422 8412 8421
CONNECT 8421 8420
CONNECT 8422 8423 8424 8420
CONNECT 8423 8422
CONNECT 8424 8425 8422 8430
CONNECT 8425 8426 8424
CONNECT 8426 8425 8427
CONNECT 8427 8426 8429 8428
CONNECT 8428 8427
CONNECT 8429 8427
CONNECT 8430 8424 8431 8432
CONNECT 8431 8430
CONNECT 8432 8430 8433 8434
CONNECT 8433 8432
CONNECT 8434 8432 8435 8439
CONNECT 8435 8434 8436
CONNECT 8436 8437 8435 8438
CONNECT 8437 8436
CONNECT 8438 8436
CONNECT 8439 8434 8441 8440
CONNECT 8440 8439
CONNECT 8441 8442 8439 8443
CONNECT 8442 8441
CONNECT 8443 8441 8444 8447
CONNECT 8444 8446 8445 8443
CONNECT 8445 8444
CONNECT 8446 8444
CONNECT 8447 8449 8443 8448
CONNECT 8448 8447
CONNECT 8449 8450 8451 8447
CONNECT 8450 8449
CONNECT 8451 8452 8449 8456
CONNECT 8452 8453 8451
CONNECT 8453 8455 8454 8452
CONNECT 8454 8453
CONNECT 8455 8453
CONNECT 8456 8451 8458 8457
CONNECT 8457 8456
CONNECT 8458 8459 8456 8460
CONNECT 8459 8458
CONNECT 8460 8458 8461 8465
CONNECT 8461 8462 8460
CONNECT 8462 8463 8464 8461
CONNECT 8463 8462
CONNECT 8464 8462
CONNECT 8465 8460 8467 8466
CONNECT 8466 8465
CONNECT 8467 8468 8465 8469
CONNECT 8468 8467
CONNECT 8469 8467 8470 8473
CONNECT 8470 8472 8469 8471
CONNECT 8471 8470
CONNECT 8472 8470
CONNECT 8473 8475 8469 8474
CONNECT 8474 8473
CONNECT 8475 8476 8477 8473
CONNECT 8476 8475
CONNECT 8477 8478 8475 8485
CONNECT 8478 8479 8477
CONNECT 8479 8478 8481 8480
CONNECT 8480 8479 8482
CONNECT 8481 8479 8483
CONNECT 8482 8480 8484

CONNECT 8483 8481 8484
CONNECT 8484 8483 8482
CONNECT 8485 8477 8487 8486
CONNECT 8486 8485
CONNECT 8487 8488 8485 8489
CONNECT 8488 8487
CONNECT 8489 8487 8490 8493
CONNECT 8490 8489 8491
CONNECT 8491 8490 8492
CONNECT 8492 8491
CONNECT 8493 8489 8495 8494
CONNECT 8494 8493
CONNECT 8495 8496 8493 8497
CONNECT 8496 8495
CONNECT 8497 8495 8498 8499
CONNECT 8498 8497
CONNECT 8499 8501 8497 8500
CONNECT 8500 8499
CONNECT 8501 8502 8503 8499
CONNECT 8502 8501
CONNECT 8503 8504 8501 8507
CONNECT 8504 8506 8505 8503
CONNECT 8505 8504
CONNECT 8506 8504
CONNECT 8507 8509 8503 8508
CONNECT 8508 8507
CONNECT 8509 8510 8511 8507
CONNECT 8510 8509
CONNECT 8511 8512 8509 8515
CONNECT 8512 8513 8514 8511
CONNECT 8513 8512
CONNECT 8514 8512
CONNECT 8515 8511 8517 8516
CONNECT 8516 8515
CONNECT 8517 8518 8515 8519
CONNECT 8518 8517
CONNECT 8519 8517 8520 8527
CONNECT 8520 8521 8519
CONNECT 8521 8522 8523 8520
CONNECT 8522 8524 8521
CONNECT 8523 8525 8521
CONNECT 8524 8526 8522
CONNECT 8525 8526 8523
CONNECT 8526 8524 8525
CONNECT 8527 8519 8529 8528
CONNECT 8528 8527
CONNECT 8529 8530 8527 8531
CONNECT 8530 8529
CONNECT 8531 8529 8532
CONNECT 8532 8534 8531 8533
CONNECT 8533 8532
CONNECT 8534 8535 8536 8532
CONNECT 8535 8534
CONNECT 8536 8537 8534 8538
CONNECT 8537 8536
CONNECT 8538 8540 8536 8539
CONNECT 8539 8538
CONNECT 8540 8541 8542 8538
CONNECT 8541 8540
CONNECT 8542 8543 8540 8547
CONNECT 8543 8542 8544
CONNECT 8544 8543 8545
CONNECT 8545 8546 8544
CONNECT 8546 8545
CONNECT 8547 8542 8548 8549
CONNECT 8548 8547
CONNECT 8549 8547 8550 8551
CONNECT 8550 8549
CONNECT 8551 8549 8553 8552
CONNECT 8552 8551
CONNECT 8553 8551 8555 8554
CONNECT 8554 8553
CONNECT 8555 8556 8553 8557
CONNECT 8556 8555

CONNECT 8557 8558 8555 8561
CONNECT 8558 8560 8559 8557
CONNECT 8559 8558
CONNECT 8560 8558
CONNECT 8561 8563 8557 8562
CONNECT 8562 8561
CONNECT 8563 8564 8565 8561
CONNECT 8564 8563
CONNECT 8565 8563 8566
CONNECT 8566 8565 8567 8568
CONNECT 8567 8566
CONNECT 8568 8566 8569 8570
CONNECT 8569 8568
CONNECT 8570 8568 8571 8578
CONNECT 8571 8572 8570
CONNECT 8572 8573 8571
CONNECT 8573 8574 8575 8572
CONNECT 8574 8573
CONNECT 8575 8573 8576 8577
CONNECT 8576 8575
CONNECT 8577 8575
CONNECT 8578 8570 8579 8580
CONNECT 8579 8578
CONNECT 8580 8578 8581 8582
CONNECT 8581 8580
CONNECT 8582 8580 8586 8583
CONNECT 8583 8584 8582 8585
CONNECT 8584 8583
CONNECT 8585 8583
CONNECT 8586 8588 8582 8587
CONNECT 8587 8586
CONNECT 8588 8589 8590 8586
CONNECT 8589 8588
CONNECT 8590 8591 8594 8588
CONNECT 8591 8592 8590
CONNECT 8592 8593 8591
CONNECT 8593 8592
CONNECT 8594 8595 8596 8590
CONNECT 8595 8594
CONNECT 8596 8598 8594 8597
CONNECT 8597 8596
CONNECT 8598 8599 8596 8602
CONNECT 8599 8600 8598
CONNECT 8600 8601 8599
CONNECT 8601 8600
CONNECT 8602 8598 8604 8603
CONNECT 8603 8602
CONNECT 8604 8605 8602 8606
CONNECT 8605 8604
CONNECT 8606 8604 8607 8614
CONNECT 8607 8608 8606
CONNECT 8608 8610 8609 8607
CONNECT 8609 8611 8608
CONNECT 8610 8612 8608
CONNECT 8611 8613 8609
CONNECT 8612 8613 8610
CONNECT 8613 8612 8611
CONNECT 8614 8606 8615 8616
CONNECT 8615 8614
CONNECT 8616 8614 8617 8618
CONNECT 8617 8616
CONNECT 8618 8616 8619 8620
CONNECT 8619 8618
CONNECT 8620 8618 8621 8622
CONNECT 8621 8620
CONNECT 8622 8620 8624 8623
CONNECT 8623 8622 8627 8625
CONNECT 8624 8622 8626
CONNECT 8625 8623 8626
CONNECT 8626 8624 8625
CONNECT 8627 8623 8628 8629
CONNECT 8628 8627
CONNECT 8629 8627 8630 8631
CONNECT 8630 8629

CONNECT 8631 8629 8632 8636
CONNECT 8632 8631 8633
CONNECT 8633 8634 8635 8632
CONNECT 8634 8633
CONNECT 8635 8633
CONNECT 8636 8631 8638 8637
CONNECT 8637 8636
CONNECT 8638 8639 8636 8640
CONNECT 8639 8638
CONNECT 8640 8638 8641 8650
CONNECT 8641 8640 8642
CONNECT 8642 8644 8641 8643
CONNECT 8643 8642 8645
CONNECT 8644 8646 8642
CONNECT 8645 8647 8643
CONNECT 8646 8644 8647
CONNECT 8647 8646 8648 8645
CONNECT 8648 8647 8649
CONNECT 8649 8648
CONNECT 8650 8640 8651 8652
CONNECT 8651 8650
CONNECT 8652 8650 8653 8654
CONNECT 8653 8652
CONNECT 8654 8655 8652 8656
CONNECT 8655 8654
CONNECT 8656 8654 8658 8657
CONNECT 8657 8656
CONNECT 8658 8659 8656 8660
CONNECT 8659 8658
CONNECT 8660 8661 8658 8669
CONNECT 8661 8662 8660
CONNECT 8662 8663 8661
CONNECT 8663 8664 8662
CONNECT 8664 8665 8663
CONNECT 8665 8666 8668 8664 8667
CONNECT 8665
CONNECT 8666 8665
CONNECT 8667 8665
CONNECT 8668 8665
CONNECT 8669 8671 8660 8670
CONNECT 8670 8669
CONNECT 8671 8672 8673 8669
CONNECT 8672 8671
CONNECT 8673 8674 8671 8675
CONNECT 8674 8673
CONNECT 8675 8673 8677 8676
CONNECT 8676 8675
CONNECT 8677 8678 8675 8679
CONNECT 8678 8677
CONNECT 8679 8677 8680 8688
CONNECT 8680 8681 8679
CONNECT 8681 8682 8680
CONNECT 8682 8683 8681
CONNECT 8683 8684 8682
CONNECT 8684 8685 8687 8683 8686
CONNECT 8684
CONNECT 8685 8684
CONNECT 8686 8684
CONNECT 8687 8684
CONNECT 8688 8679 8690 8689
CONNECT 8689 8688
CONNECT 8690 8691 8688 8692
CONNECT 8691 8690
CONNECT 8692 8690 8697 8693
CONNECT 8693 8694 8692 8695
CONNECT 8694 8696 8693
CONNECT 8695 8693
CONNECT 8696 8694
CONNECT 8697 8699 8692 8698
CONNECT 8698 8697
CONNECT 8699 8700 8701 8697
CONNECT 8700 8699
CONNECT 8701 8702 8699 8705
CONNECT 8702 8703 8701

CONNECT 8703 8704 8702
CONNECT 8704 8703
CONNECT 8705 8707 8701 8706
CONNECT 8706 8705
CONNECT 8707 8708 8709 8705
CONNECT 8708 8707
CONNECT 8709 8710 8707 8711
CONNECT 8710 8709
CONNECT 8711 8709 8712 8713
CONNECT 8712 8711
CONNECT 8713 8711 8714 8715
CONNECT 8714 8713
CONNECT 8715 8713 8717 8716
CONNECT 8716 8715
CONNECT 8717 8715 8719 8718
CONNECT 8718 8717
CONNECT 8719 8720 8717 8721
CONNECT 8720 8719
CONNECT 8721 8719 8725 8730
CONNECT 8722 8724 8729 8723
CONNECT 8723 8722
CONNECT 8724 8728 8725 8722
CONNECT 8725 8724 8721
CONNECT 8726 8728 8727 8729
CONNECT 8727 8726
CONNECT 8728 8724 8726
CONNECT 8729 8726 8722
CONNECT 8730 8732 8721 8731
CONNECT 8731 8730
CONNECT 8732 8733 8734 8730
CONNECT 8733 8732
CONNECT 8734 8735 8732 8739
CONNECT 8735 8737 8736 8734
CONNECT 8736 8735 8738
CONNECT 8737 8735
CONNECT 8738 8736
CONNECT 8739 8734 8741 8740
CONNECT 8740 8739
CONNECT 8741 8742 8739 8743
CONNECT 8742 8741
CONNECT 8743 8741 8744 8748
CONNECT 8744 8745 8743 8746
CONNECT 8745 8747 8744
CONNECT 8746 8744
CONNECT 8747 8745
CONNECT 8748 8743 8749 8750
CONNECT 8749 8748
CONNECT 8750 8748 8751 8752
CONNECT 8751 8750
CONNECT 8752 8750 8757 8753
CONNECT 8753 8752 8754
CONNECT 8754 8753 8755
CONNECT 8755 8754 8756
CONNECT 8756 8755
CONNECT 8757 8759 8752 8758
CONNECT 8758 8757
CONNECT 8759 8760 8761 8757
CONNECT 8760 8759
CONNECT 8761 8762 8766 8759
CONNECT 8762 8764 8763 8761
CONNECT 8763 8762 8765
CONNECT 8764 8762
CONNECT 8765 8763
CONNECT 8766 8768 8761 8767
CONNECT 8767 8766
CONNECT 8768 8769 8770 8766
CONNECT 8769 8768
CONNECT 8770 8771 8768 8775
CONNECT 8771 8772 8773 8770
CONNECT 8772 8774 8771
CONNECT 8773 8771
CONNECT 8774 8772
CONNECT 8775 8770 8776 8777
CONNECT 8776 8775

CONNECT 8777 8775 8778 8779
CONNECT 8778 8777
CONNECT 8779 8777 8780 8785
CONNECT 8780 8781 8779
CONNECT 8781 8782 8780
CONNECT 8782 8781 8784 8783
CONNECT 8783 8782
CONNECT 8784 8782
CONNECT 8785 8779 8786 8787
CONNECT 8786 8785
CONNECT 8787 8785 8788 8789
CONNECT 8788 8787
CONNECT 8789 8787 8790 8798
CONNECT 8790 8791 8789
CONNECT 8791 8792 8790
CONNECT 8792 8793 8791
CONNECT 8793 8794 8792
CONNECT 8794 8795 8797 8796 8793
CONNECT 8794
CONNECT 8795 8794
CONNECT 8796 8794
CONNECT 8797 8794
CONNECT 8798 8789 8799 8800
CONNECT 8799 8798
CONNECT 8800 8798 8801 8802
CONNECT 8801 8800
CONNECT 8802 8800 8807 8803
CONNECT 8803 8802 8804 8806
CONNECT 8804 8803 8805
CONNECT 8805 8804
CONNECT 8806 8803
CONNECT 8807 8809 8802 8808
CONNECT 8808 8807
CONNECT 8809 8811 8810 8807
CONNECT 8810 8812 8809 8814
CONNECT 8811 8813 8809
CONNECT 8812 8813 8810
CONNECT 8813 8812 8811
CONNECT 8814 8810 8815 8816
CONNECT 8815 8814
CONNECT 8816 8814 8817 8818
CONNECT 8817 8816
CONNECT 8818 8816 8823 8819
CONNECT 8819 8818 8820
CONNECT 8820 8819 8821 8822
CONNECT 8821 8820
CONNECT 8822 8820
CONNECT 8823 8825 8818 8824
CONNECT 8824 8823
CONNECT 8825 8826 8827 8823
CONNECT 8826 8825
CONNECT 8827 8832 8825 8828
CONNECT 8828 8827 8830 8829
CONNECT 8829 8828 8831
CONNECT 8830 8828
CONNECT 8831 8829
CONNECT 8832 8834 8833 8827
CONNECT 8833 8832
CONNECT 8834 8836 8835 8832
CONNECT 8835 8834
CONNECT 8836 8837 8841 8834
CONNECT 8837 8838 8836
CONNECT 8838 8840 8839 8837
CONNECT 8839 8838
CONNECT 8840 8838
CONNECT 8841 8842 8836 8843
CONNECT 8842 8841
CONNECT 8843 8841 8845 8844
CONNECT 8844 8843
CONNECT 8845 8846 8843 8849
CONNECT 8846 8847 8845
CONNECT 8847 8848 8846
CONNECT 8848 8847
CONNECT 8849 8845 8850 8851

CONECT 8850 8849
CONECT 8851 8849 8852 8853
CONECT 8852 8851
CONECT 8853 8851 8863 8854
CONECT 8854 8853 8855
CONECT 8855 8856 8854 8857
CONECT 8856 8858 8855
CONECT 8857 8855 8859
CONECT 8858 8856 8860
CONECT 8859 8860 8857
CONECT 8860 8858 8861 8859
CONECT 8861 8860 8862
CONECT 8862 8861
CONECT 8863 8864 8853 8865
CONECT 8864 8863
CONECT 8865 8863 8867 8866
CONECT 8866 8865
CONECT 8867 8865 8868 8871
CONECT 8868 8867 8869
CONECT 8869 8868 8870
CONECT 8870 8869
CONECT 8871 8867 8872 8873
CONECT 8872 8871
CONECT 8873 8871 8874 8875
CONECT 8874 8873
CONECT 8875 8873 8880 8876
CONECT 8876 8877 8875 8879
CONECT 8877 8878 8876
CONECT 8878 8877
CONECT 8879 8876
CONECT 8880 8882 8875 8881
CONECT 8881 8880
CONECT 8882 8883 8884 8880
CONECT 8883 8882
CONECT 8884 8890 8882 8885
CONECT 8885 8886 8884
CONECT 8886 8887 8885
CONECT 8887 8889 8888 8886
CONECT 8888 8887
CONECT 8889 8887
CONECT 8890 8891 8892 8884
CONECT 8891 8890
CONECT 8892 8894 8893 8890
CONECT 8893 8892
CONECT 8894 8895 8892
CONECT 8895 8896 8894 8897
CONECT 8896 8895
CONECT 8897 8895 8899 8898
CONECT 8898 8897
CONECT 8899 8900 8897 8904
CONECT 8900 8901 8899
CONECT 8901 8902 8900 8903
CONECT 8902 8901
CONECT 8903 8901
CONECT 8904 8905 8899 8906
CONECT 8905 8904
CONECT 8906 8904 8908 8907
CONECT 8907 8906
CONECT 8908 8906 8913 8909
CONECT 8909 8908 8910
CONECT 8910 8911 8909
CONECT 8911 8910 8912
CONECT 8912 8911
CONECT 8913 8915 8908 8914
CONECT 8914 8913
CONECT 8915 8917 8916 8913
CONECT 8916 8918 8915 8920
CONECT 8917 8919 8915
CONECT 8918 8919 8916
CONECT 8919 8917 8918
CONECT 8920 8916 8921 8922
CONECT 8921 8920
CONECT 8922 8920 8923 8924
CONECT 8923 8922

CONNECT 8924 8922 8931 8925
CONNECT 8925 8924 8926
CONNECT 8926 8927 8925 8928
CONNECT 8927 8926
CONNECT 8928 8926 8930 8929
CONNECT 8929 8928
CONNECT 8930 8928
CONNECT 8931 8933 8924 8932
CONNECT 8932 8931
CONNECT 8933 8934 8935 8931
CONNECT 8934 8933
CONNECT 8935 8936 8933 8940
CONNECT 8936 8939 8937 8935
CONNECT 8937 8936 8938
CONNECT 8938 8937
CONNECT 8939 8936
CONNECT 8940 8942 8935 8941
CONNECT 8941 8940
CONNECT 8942 8943 8944 8940
CONNECT 8943 8942
CONNECT 8944 8945 8942 8949
CONNECT 8945 8946 8944
CONNECT 8946 8948 8947 8945
CONNECT 8947 8946
CONNECT 8948 8946
CONNECT 8949 8944 8950 8951
CONNECT 8950 8949
CONNECT 8951 8949 8952 8953
CONNECT 8952 8951
CONNECT 8953 8951 8959 8954
CONNECT 8954 8953 8955
CONNECT 8955 8954 8956
CONNECT 8956 8955 8957 8958
CONNECT 8957 8956
CONNECT 8958 8956
CONNECT 8959 8953 8961 8960
CONNECT 8960 8959
CONNECT 8961 8962 8959 8963
CONNECT 8962 8961
CONNECT 8963 8961 8964
CONNECT 8964 8963 8965 8966
CONNECT 8965 8964
CONNECT 8966 8964 8967 8968
CONNECT 8967 8966
CONNECT 8968 8966 8975 8969
CONNECT 8969 8968 8970
CONNECT 8970 8971 8969 8972
CONNECT 8971 8970
CONNECT 8972 8970 8973 8974
CONNECT 8973 8972
CONNECT 8974 8972
CONNECT 8975 8976 8968 8977
CONNECT 8976 8975
CONNECT 8977 8975 8979 8978
CONNECT 8978 8977
CONNECT 8979 8980 8977 8983
CONNECT 8980 8982 8981 8979
CONNECT 8981 8980
CONNECT 8982 8980
CONNECT 8983 8979 8985 8984
CONNECT 8984 8983
CONNECT 8985 8986 8983 8987
CONNECT 8986 8985
CONNECT 8987 8985 8992 8988
CONNECT 8988 8991 8987 8989
CONNECT 8989 8988 8990
CONNECT 8990 8989
CONNECT 8991 8988
CONNECT 8992 8993 8987 8994
CONNECT 8993 8992
CONNECT 8994 8992 8996 8995
CONNECT 8995 8994
CONNECT 8996 8994 8997 9004
CONNECT 8997 8998 8996

CONECT 8998 8999 9000 8997
CONECT 8999 9001 8998
CONECT 9000 9002 8998
CONECT 9001 9003 8999
CONECT 9002 9003 9000
CONECT 9003 9001 9002
CONECT 9004 8996 9006 9005
CONECT 9005 9004
CONECT 9006 9007 9004 9008
CONECT 9007 9006
CONECT 9008 9006 9009
CONECT 9009 9010 9008 9011
CONECT 9010 9009
CONECT 9011 9009 9013 9012
CONECT 9012 9011
CONECT 9013 9019 9011 9014
CONECT 9014 9013 9015
CONECT 9015 9014 9016
CONECT 9016 9017 9015 9018
CONECT 9017 9016
CONECT 9018 9016
CONECT 9019 9021 9020 9013
CONECT 9020 9019
CONECT 9021 9023 9022 9019
CONECT 9022 9021
CONECT 9023 9024 9027 9021
CONECT 9024 9025 9023 9026
CONECT 9025 9024
CONECT 9026 9024
CONECT 9027 9023 9029 9028
CONECT 9028 9027
CONECT 9029 9030 9027 9031
CONECT 9030 9029
CONECT 9031 9035 9029 9032
CONECT 9032 9031 9033 9034
CONECT 9033 9032
CONECT 9034 9032
CONECT 9035 9036 9037 9031
CONECT 9036 9035
CONECT 9037 9039 9035 9038
CONECT 9038 9037
CONECT 9039 9040 9047 9037
CONECT 9040 9041 9039
CONECT 9041 9042 9043 9040
CONECT 9042 9044 9041
CONECT 9043 9045 9041
CONECT 9044 9046 9042
CONECT 9045 9046 9043
CONECT 9046 9044 9045
CONECT 9047 9049 9039 9048
CONECT 9048 9047
CONECT 9049 9050 9051 9047
CONECT 9050 9049
CONECT 9051 9058 9049 9052
CONECT 9052 9051 9053
CONECT 9053 9054 9052 9055
CONECT 9054 9053
CONECT 9055 9053 9057 9056
CONECT 9056 9055
CONECT 9057 9055
CONECT 9058 9060 9059 9051
CONECT 9059 9058
CONECT 9060 9062 9061 9058
CONECT 9061 9060
CONECT 9062 9063 9072 9060
CONECT 9063 9064 9062
CONECT 9064 9066 9063 9065
CONECT 9065 9064 9067
CONECT 9066 9068 9064
CONECT 9067 9069 9065
CONECT 9068 9066 9069
CONECT 9069 9068 9070 9067
CONECT 9070 9069 9071
CONECT 9071 9070

CONNECT 9072 9074 9062 9073
CONNECT 9073 9072
CONNECT 9074 9076 9075 9072
CONNECT 9075 9077 9074 9079
CONNECT 9076 9078 9074
CONNECT 9077 9078 9075
CONNECT 9078 9077 9076
CONNECT 9079 9080 9075 9081
CONNECT 9080 9079
CONNECT 9081 9079 9083 9082
CONNECT 9082 9081
CONNECT 9083 9081 9084 9088
CONNECT 9084 9083 9085 9087
CONNECT 9085 9084 9086
CONNECT 9086 9085
CONNECT 9087 9084
CONNECT 9088 9083 9090 9089
CONNECT 9089 9088
CONNECT 9090 9091 9088 9092
CONNECT 9091 9090
CONNECT 9092 9090 9093 9105
CONNECT 9093 9094 9092
CONNECT 9094 9095 9093
CONNECT 9095 9094 9096
CONNECT 9096 9095 9097 9098
CONNECT 9097 9096
CONNECT 9098 9096 9099 9102
CONNECT 9099 9101 9098 9100
CONNECT 9100 9099
CONNECT 9101 9099
CONNECT 9102 9098 9104 9103
CONNECT 9103 9102
CONNECT 9104 9102
CONNECT 9105 9092 9107 9106
CONNECT 9106 9105
CONNECT 9107 9109 9105 9108
CONNECT 9108 9107 9110 9112
CONNECT 9109 9111 9107
CONNECT 9110 9111 9108
CONNECT 9111 9109 9110
CONNECT 9112 9108 9114 9113
CONNECT 9113 9112
CONNECT 9114 9115 9116 9112
CONNECT 9115 9114
CONNECT 9116 9117 9114 9121
CONNECT 9117 9118 9116
CONNECT 9118 9117 9120 9119
CONNECT 9119 9118
CONNECT 9120 9118
CONNECT 9121 9116 9123 9122
CONNECT 9122 9121
CONNECT 9123 9124 9121 9125
CONNECT 9124 9123
CONNECT 9125 9123 9130 9126
CONNECT 9126 9125 9128 9127
CONNECT 9127 9126 9129
CONNECT 9128 9126
CONNECT 9129 9127
CONNECT 9130 9131 9132 9125
CONNECT 9131 9130
CONNECT 9132 9133 9130 9134
CONNECT 9133 9135 9137 9132
CONNECT 9134 9136 9132
CONNECT 9135 9133 9136
CONNECT 9136 9135 9134
CONNECT 9137 9139 9133 9138
CONNECT 9138 9137
CONNECT 9139 9140 9141 9137
CONNECT 9140 9139
CONNECT 9141 9142 9139 9145
CONNECT 9142 9144 9143 9141
CONNECT 9143 9142
CONNECT 9144 9142
CONNECT 9145 9141 9147 9146

CONNECT 9146 9145
CONNECT 9147 9148 9145 9149
CONNECT 9148 9147
CONNECT 9149 9150 9147 9154
CONNECT 9150 9151 9149
CONNECT 9151 9153 9152 9150
CONNECT 9152 9151
CONNECT 9153 9151
CONNECT 9154 9149 9155 9156
CONNECT 9155 9154
CONNECT 9156 9154 9157 9158
CONNECT 9157 9156
CONNECT 9158 9156 9166 9159
CONNECT 9159 9158 9160
CONNECT 9160 9159 9161
CONNECT 9161 9160 9162 9163
CONNECT 9162 9161
CONNECT 9163 9161 9165 9164
CONNECT 9164 9163
CONNECT 9165 9163
CONNECT 9166 9158 9168 9167
CONNECT 9167 9166
CONNECT 9168 9169 9166 9170
CONNECT 9169 9168
CONNECT 9170 9168 9171
CONNECT 9171 9173 9170 9172
CONNECT 9172 9171
CONNECT 9173 9174 9175 9171
CONNECT 9174 9173
CONNECT 9175 9176 9180 9173
CONNECT 9176 9177 9175
CONNECT 9177 9179 9176 9178
CONNECT 9178 9177
CONNECT 9179 9177
CONNECT 9180 9181 9175 9182
CONNECT 9181 9180
CONNECT 9182 9180 9184 9183
CONNECT 9183 9182
CONNECT 9184 9188 9182 9185
CONNECT 9185 9184 9186
CONNECT 9186 9185 9187
CONNECT 9187 9186
CONNECT 9188 9190 9184 9189
CONNECT 9189 9188
CONNECT 9190 9191 9192 9188
CONNECT 9191 9190
CONNECT 9192 9197 9193 9190
CONNECT 9193 9194 9192
CONNECT 9194 9193 9196 9195
CONNECT 9195 9194
CONNECT 9196 9194
CONNECT 9197 9198 9199 9192
CONNECT 9198 9197
CONNECT 9199 9201 9197 9200
CONNECT 9200 9199
CONNECT 9201 9207 9202 9199
CONNECT 9202 9201 9203
CONNECT 9203 9202 9204
CONNECT 9204 9205 9203 9206
CONNECT 9205 9204
CONNECT 9206 9204
CONNECT 9207 9209 9201 9208
CONNECT 9208 9207
CONNECT 9209 9210 9211 9207
CONNECT 9210 9209
CONNECT 9211 9212 9215 9209
CONNECT 9212 9213 9214 9211
CONNECT 9213 9212
CONNECT 9214 9212
CONNECT 9215 9216 9211 9217
CONNECT 9216 9215
CONNECT 9217 9215 9219 9218
CONNECT 9218 9217
CONNECT 9219 9228 9217 9220

CONNECT 9220 9219 9221
CONNECT 9221 9220 9222
CONNECT 9222 9221 9223
CONNECT 9223 9222 9224
CONNECT 9224 9223 9227 9226 9225
CONNECT 9224
CONNECT 9225 9224
CONNECT 9226 9224
CONNECT 9227 9224
CONNECT 9228 9229 9230 9219
CONNECT 9229 9228
CONNECT 9230 9232 9228 9231
CONNECT 9231 9230
CONNECT 9232 9233 9241 9230
CONNECT 9233 9234 9232
CONNECT 9234 9233 9235
CONNECT 9235 9236 9234
CONNECT 9236 9237 9235
CONNECT 9237 9238 9239 9236 9240
CONNECT 9237
CONNECT 9238 9237
CONNECT 9239 9237
CONNECT 9240 9237
CONNECT 9241 9243 9232 9242
CONNECT 9242 9241
CONNECT 9243 9244 9245 9241
CONNECT 9244 9243
CONNECT 9245 9243 9246
CONNECT 9246 9245 9247 9248
CONNECT 9247 9246
CONNECT 9248 9246 9249 9250
CONNECT 9249 9248
CONNECT 9250 9248 9258 9251
CONNECT 9251 9250 9252
CONNECT 9252 9251 9253
CONNECT 9253 9254 9252 9255
CONNECT 9254 9253
CONNECT 9255 9253 9256 9257
CONNECT 9256 9255
CONNECT 9257 9255
CONNECT 9258 9259 9250 9260
CONNECT 9259 9258
CONNECT 9260 9258 9262 9261
CONNECT 9261 9260
CONNECT 9262 9263 9260 9267
CONNECT 9263 9264 9266 9262
CONNECT 9264 9265 9263
CONNECT 9265 9264
CONNECT 9266 9263
CONNECT 9267 9262 9269 9268
CONNECT 9268 9267
CONNECT 9269 9270 9267 9271
CONNECT 9270 9269
CONNECT 9271 9269 9272 9276
CONNECT 9272 9271 9273
CONNECT 9273 9272 9275 9274
CONNECT 9274 9273
CONNECT 9275 9273
CONNECT 9276 9277 9271 9278
CONNECT 9277 9276
CONNECT 9278 9276 9280 9279
CONNECT 9279 9278
CONNECT 9280 9278 9282 9281
CONNECT 9281 9280
CONNECT 9282 9284 9280 9283
CONNECT 9283 9282
CONNECT 9284 9285 9286 9282
CONNECT 9285 9284
CONNECT 9286 9287 9284 9291
CONNECT 9287 9288 9286
CONNECT 9288 9287 9289 9290
CONNECT 9289 9288
CONNECT 9290 9288
CONNECT 9291 9292 9286 9293

CONNECT 9292 9291
CONNECT 9293 9291 9295 9294
CONNECT 9294 9293
CONNECT 9295 9293 9299 9296
CONNECT 9296 9295 9298 9297
CONNECT 9297 9296
CONNECT 9298 9296
CONNECT 9299 9301 9295 9300
CONNECT 9300 9299
CONNECT 9301 9302 9303 9299
CONNECT 9302 9301
CONNECT 9303 9301 9304
CONNECT 9304 9303 9305 9306
CONNECT 9305 9304
CONNECT 9306 9304 9307 9308
CONNECT 9307 9306
CONNECT 9308 9312 9306 9309
CONNECT 9309 9308 9310
CONNECT 9310 9309 9311
CONNECT 9311 9310
CONNECT 9312 9314 9313 9308
CONNECT 9313 9312
CONNECT 9314 9316 9315 9312
CONNECT 9315 9314
CONNECT 9316 9320 9317 9314
CONNECT 9317 9316 9318
CONNECT 9318 9317 9319
CONNECT 9319 9318
CONNECT 9320 9322 9321 9316
CONNECT 9321 9320
CONNECT 9322 9324 9323 9320
CONNECT 9323 9322
CONNECT 9324 9325 9322
CONNECT 9325 9326 9324 9327
CONNECT 9326 9325
CONNECT 9327 9325 9329 9328
CONNECT 9328 9327
CONNECT 9329 9327 9330 9332
CONNECT 9330 9331 9329
CONNECT 9331 9330
CONNECT 9332 9329 9334 9333
CONNECT 9333 9332
CONNECT 9334 9335 9332 9336
CONNECT 9335 9334
CONNECT 9336 9334 9337
CONNECT 9337 9339 9338 9336
CONNECT 9338 9337
CONNECT 9339 9341 9340 9337
CONNECT 9340 9339
CONNECT 9341 9350 9342 9339
CONNECT 9342 9341 9343
CONNECT 9343 9342 9344
CONNECT 9344 9343 9345
CONNECT 9345 9344 9346
CONNECT 9346 9349 9348 9345 9347
CONNECT 9346
CONNECT 9347 9346
CONNECT 9348 9346
CONNECT 9349 9346
CONNECT 9350 9352 9351 9341
CONNECT 9351 9350
CONNECT 9352 9354 9353 9350
CONNECT 9353 9352
CONNECT 9354 9355 9358 9352
CONNECT 9355 9356 9354
CONNECT 9356 9357 9355
CONNECT 9357 9356
CONNECT 9358 9359 9354 9360
CONNECT 9359 9358
CONNECT 9360 9358 9362 9361
CONNECT 9361 9360
CONNECT 9362 9360 9367 9363
CONNECT 9363 9362 9366 9364
CONNECT 9364 9363 9365

CONNECT 9365 9364
CONNECT 9366 9363
CONNECT 9367 9368 9362 9369
CONNECT 9368 9367
CONNECT 9369 9367 9371 9370
CONNECT 9370 9369
CONNECT 9371 9375 9369 9372
CONNECT 9372 9371 9373 9374
CONNECT 9373 9372
CONNECT 9374 9372
CONNECT 9375 9377 9376 9371
CONNECT 9376 9375
CONNECT 9377 9379 9378 9375
CONNECT 9378 9377
CONNECT 9379 9383 9380 9377
CONNECT 9380 9381 9379 9382
CONNECT 9381 9380
CONNECT 9382 9380
CONNECT 9383 9384 9385 9379
CONNECT 9384 9383
CONNECT 9385 9387 9383 9386
CONNECT 9386 9385
CONNECT 9387 9388 9395 9385
CONNECT 9388 9389 9387
CONNECT 9389 9388 9390
CONNECT 9390 9389 9391 9392
CONNECT 9391 9390
CONNECT 9392 9390 9393 9394
CONNECT 9393 9392
CONNECT 9394 9392
CONNECT 9395 9396 9387 9397
CONNECT 9396 9395
CONNECT 9397 9395 9399 9398
CONNECT 9398 9397
CONNECT 9399 9404 9397 9400
CONNECT 9400 9399 9401
CONNECT 9401 9403 9400 9402
CONNECT 9402 9401
CONNECT 9403 9401
CONNECT 9404 9405 9406 9399
CONNECT 9405 9404
CONNECT 9406 9408 9404 9407
CONNECT 9407 9406
CONNECT 9408 9413 9409 9406
CONNECT 9409 9410 9408
CONNECT 9410 9411 9409 9412
CONNECT 9411 9410
CONNECT 9412 9410
CONNECT 9413 9415 9414 9408
CONNECT 9414 9413
CONNECT 9415 9417 9416 9413
CONNECT 9416 9415
CONNECT 9417 9418 9423 9415
CONNECT 9418 9419 9417
CONNECT 9419 9420 9418
CONNECT 9420 9422 9421 9419
CONNECT 9421 9420
CONNECT 9422 9420
CONNECT 9423 9424 9417 9425
CONNECT 9424 9423
CONNECT 9425 9423 9427 9426
CONNECT 9426 9425
CONNECT 9427 9440 9428 9425
CONNECT 9428 9429 9427
CONNECT 9429 9430 9428
CONNECT 9430 9431 9429
CONNECT 9431 9433 9430 9432
CONNECT 9432 9431
CONNECT 9433 9434 9437 9431
CONNECT 9434 9436 9435 9433
CONNECT 9435 9434
CONNECT 9436 9434
CONNECT 9437 9439 9433 9438
CONNECT 9438 9437

CONNECT 9439 9437
CONNECT 9440 9441 9442 9427
CONNECT 9441 9440
CONNECT 9442 9444 9440 9443
CONNECT 9443 9442
CONNECT 9444 9445 9452 9442
CONNECT 9445 9446 9444
CONNECT 9446 9447 9448 9445
CONNECT 9447 9449 9446
CONNECT 9448 9450 9446
CONNECT 9449 9451 9447
CONNECT 9450 9451 9448
CONNECT 9451 9449 9450
CONNECT 9452 9453 9444 9454
CONNECT 9453 9452
CONNECT 9454 9452 9455 9456
CONNECT 9455 9454
CONNECT 9456 9454 9466 9457
CONNECT 9457 9456 9458
CONNECT 9458 9459 9460 9457
CONNECT 9459 9461 9458
CONNECT 9460 9462 9458
CONNECT 9461 9463 9459
CONNECT 9462 9463 9460
CONNECT 9463 9464 9461 9462
CONNECT 9464 9465 9463
CONNECT 9465 9464
CONNECT 9466 9456 9468 9467
CONNECT 9467 9466
CONNECT 9468 9469 9466 9470
CONNECT 9469 9468
CONNECT 9470 9468 9471 9475
CONNECT 9471 9472 9470
CONNECT 9472 9474 9473 9471
CONNECT 9473 9472
CONNECT 9474 9472
CONNECT 9475 9470 9476 9477
CONNECT 9476 9475
CONNECT 9477 9475 9479 9478
CONNECT 9478 9477 9482 9480
CONNECT 9479 9477 9481
CONNECT 9480 9481 9478
CONNECT 9481 9479 9480
CONNECT 9482 9483 9478 9484
CONNECT 9483 9482
CONNECT 9484 9482 9485 9486
CONNECT 9485 9484
CONNECT 9486 9484 9491 9487
CONNECT 9487 9486 9488
CONNECT 9488 9490 9487 9489
CONNECT 9489 9488
CONNECT 9490 9488
CONNECT 9491 9486 9492 9493
CONNECT 9492 9491
CONNECT 9493 9491 9494 9495
CONNECT 9494 9493
CONNECT 9495 9493 9497 9496
CONNECT 9496 9495
CONNECT 9497 9495 9498 9499
CONNECT 9498 9497
CONNECT 9499 9497 9500 9501
CONNECT 9500 9499
CONNECT 9501 9502 9499
CONNECT 9502 9503 9504 9501
CONNECT 9503 9502
CONNECT 9504 9506 9502 9505
CONNECT 9505 9504
CONNECT 9506 9507 9515 9504
CONNECT 9507 9506 9508
CONNECT 9508 9507 9509
CONNECT 9509 9508 9510
CONNECT 9510 9509 9511
CONNECT 9511 9510 9514 9513 9512
CONNECT 9511

CONNECT 9512 9511
CONNECT 9513 9511
CONNECT 9514 9511
CONNECT 9515 9517 9506 9516
CONNECT 9516 9515
CONNECT 9517 9518 9519 9515
CONNECT 9518 9517
CONNECT 9519 9523 9520 9517
CONNECT 9520 9521 9522 9519
CONNECT 9521 9520
CONNECT 9522 9520
CONNECT 9523 9524 9525 9519
CONNECT 9524 9523
CONNECT 9525 9527 9523 9526
CONNECT 9526 9525
CONNECT 9527 9532 9525 9528
CONNECT 9528 9527 9529
CONNECT 9529 9528 9531 9530
CONNECT 9530 9529
CONNECT 9531 9529
CONNECT 9532 9534 9527 9533
CONNECT 9533 9532
CONNECT 9534 9535 9536 9532
CONNECT 9535 9534
CONNECT 9536 9537 9541 9534
CONNECT 9537 9538 9536
CONNECT 9538 9539 9540 9537
CONNECT 9539 9538
CONNECT 9540 9538
CONNECT 9541 9536 9542 9543
CONNECT 9542 9541
CONNECT 9543 9541 9544 9545
CONNECT 9544 9543
CONNECT 9545 9546 9543 9550
CONNECT 9546 9547 9545
CONNECT 9547 9549 9546 9548
CONNECT 9548 9547
CONNECT 9549 9547
CONNECT 9550 9552 9545 9551
CONNECT 9551 9550
CONNECT 9552 9553 9554 9550
CONNECT 9553 9552
CONNECT 9554 9552 9555
CONNECT 9555 9557 9554 9556
CONNECT 9556 9555
CONNECT 9557 9558 9559 9555
CONNECT 9558 9557
CONNECT 9559 9560 9568 9557
CONNECT 9560 9561 9559
CONNECT 9561 9562 9560
CONNECT 9562 9563 9561
CONNECT 9563 9564 9562
CONNECT 9564 9566 9565 9567 9563
CONNECT 9564
CONNECT 9565 9564
CONNECT 9566 9564
CONNECT 9567 9564
CONNECT 9568 9569 9559 9570
CONNECT 9569 9568
CONNECT 9570 9568 9572 9571
CONNECT 9571 9570
CONNECT 9572 9578 9570 9573
CONNECT 9573 9572 9574
CONNECT 9574 9573 9575
CONNECT 9575 9576 9574 9577
CONNECT 9576 9575
CONNECT 9577 9575
CONNECT 9578 9579 9580 9572
CONNECT 9579 9578
CONNECT 9580 9582 9578 9581
CONNECT 9581 9580
CONNECT 9582 9583 9587 9580
CONNECT 9583 9585 9584 9582
CONNECT 9584 9586 9583

CONNECT 9585 9583
CONNECT 9586 9584
CONNECT 9587 9582 9589 9588
CONNECT 9588 9587
CONNECT 9589 9587 9591 9590
CONNECT 9590 9589
CONNECT 9591 9600 9589 9592
CONNECT 9592 9591 9593
CONNECT 9593 9592 9594
CONNECT 9594 9595 9593
CONNECT 9595 9596 9594
CONNECT 9596 9597 9599 9595 9598
CONNECT 9596
CONNECT 9597 9596
CONNECT 9598 9596
CONNECT 9599 9596
CONNECT 9600 9601 9602 9591
CONNECT 9601 9600
CONNECT 9602 9604 9600 9603
CONNECT 9603 9602
CONNECT 9604 9617 9605 9602
CONNECT 9605 9604 9606
CONNECT 9606 9605 9607
CONNECT 9607 9606 9608
CONNECT 9608 9610 9607 9609
CONNECT 9609 9608
CONNECT 9610 9611 9614 9608
CONNECT 9611 9613 9612 9610
CONNECT 9612 9611
CONNECT 9613 9611
CONNECT 9614 9616 9610 9615
CONNECT 9615 9614
CONNECT 9616 9614
CONNECT 9617 9619 9604 9618
CONNECT 9618 9617
CONNECT 9619 9621 9620 9617
CONNECT 9620 9619
CONNECT 9621 9626 9622 9619
CONNECT 9622 9623 9621
CONNECT 9623 9624 9625 9622
CONNECT 9624 9623
CONNECT 9625 9623
CONNECT 9626 9628 9627 9621
CONNECT 9627 9626
CONNECT 9628 9630 9629 9626
CONNECT 9629 9628
CONNECT 9630 9631 9637 9628
CONNECT 9631 9632 9630
CONNECT 9632 9633 9634 9631
CONNECT 9633 9632
CONNECT 9634 9635 9632 9636
CONNECT 9635 9634
CONNECT 9636 9634
CONNECT 9637 9639 9638 9630
CONNECT 9638 9637
CONNECT 9639 9640 9637 9641
CONNECT 9640 9639
CONNECT 9641 9645 9639 9642
CONNECT 9642 9643 9644 9641
CONNECT 9643 9642
CONNECT 9644 9642
CONNECT 9645 9647 9646 9641
CONNECT 9646 9645
CONNECT 9647 9648 9649 9645
CONNECT 9648 9650 9652 9647
CONNECT 9649 9651 9647
CONNECT 9650 9651 9648
CONNECT 9651 9650 9649
CONNECT 9652 9648 9653 9654
CONNECT 9653 9652
CONNECT 9654 9652 9655 9656
CONNECT 9655 9654
CONNECT 9656 9654 9657 9668
CONNECT 9657 9656 9658

CONNECT 9658 9660 9657 9659
CONNECT 9659 9658 9663 9664
CONNECT 9660 9658 9661
CONNECT 9661 9660 9662 9663
CONNECT 9662 9661
CONNECT 9663 9661 9659 9665
CONNECT 9664 9659 9666
CONNECT 9665 9663 9667
CONNECT 9666 9664 9667
CONNECT 9667 9665 9666
CONNECT 9668 9656 9669 9670
CONNECT 9669 9668
CONNECT 9670 9668 9671 9672
CONNECT 9671 9670
CONNECT 9672 9670 9677 9673
CONNECT 9673 9672 9674
CONNECT 9674 9673 9676 9675
CONNECT 9675 9674
CONNECT 9676 9674
CONNECT 9677 9679 9672 9678
CONNECT 9678 9677
CONNECT 9679 9680 9681 9677
CONNECT 9680 9679
CONNECT 9681 9694 9682 9679
CONNECT 9682 9683 9681
CONNECT 9683 9684 9682
CONNECT 9684 9683 9685
CONNECT 9685 9684 9687 9686
CONNECT 9686 9685
CONNECT 9687 9688 9685 9691
CONNECT 9688 9690 9689 9687
CONNECT 9689 9688
CONNECT 9690 9688
CONNECT 9691 9687 9692 9693
CONNECT 9692 9691
CONNECT 9693 9691
CONNECT 9694 9696 9695 9681
CONNECT 9695 9694
CONNECT 9696 9698 9697 9694
CONNECT 9697 9696
CONNECT 9698 9699 9696 9700
CONNECT 9699 9698
CONNECT 9700 9698 9701 9702
CONNECT 9701 9700
CONNECT 9702 9700 9703 9704
CONNECT 9703 9702
CONNECT 9704 9702 9713 9708
CONNECT 9705 9712 9706 9707
CONNECT 9706 9705
CONNECT 9707 9705 9711 9708
CONNECT 9708 9704 9707
CONNECT 9709 9712 9710 9711
CONNECT 9710 9709
CONNECT 9711 9709 9707
CONNECT 9712 9709 9705
CONNECT 9713 9704 9715 9714
CONNECT 9714 9713
CONNECT 9715 9716 9713 9717
CONNECT 9716 9715
CONNECT 9717 9715 9722 9718
CONNECT 9718 9719 9717
CONNECT 9719 9721 9720 9718
CONNECT 9720 9719
CONNECT 9721 9719
CONNECT 9722 9723 9717 9724
CONNECT 9723 9722
CONNECT 9724 9722 9726 9725
CONNECT 9725 9724
CONNECT 9726 9724 9727
CONNECT 9727 9729 9726 9728
CONNECT 9728 9727
CONNECT 9729 9730 9731 9727
CONNECT 9730 9729
CONNECT 9731 9736 9729 9732

CONNECT 9732 9733 9731 9734
CONNECT 9733 9735 9732
CONNECT 9734 9732
CONNECT 9735 9733
CONNECT 9736 9737 9731 9738
CONNECT 9737 9736
CONNECT 9738 9736 9740 9739
CONNECT 9739 9738
CONNECT 9740 9741 9738 9744
CONNECT 9741 9742 9740 9743
CONNECT 9742 9741
CONNECT 9743 9741
CONNECT 9744 9740 9746 9745
CONNECT 9745 9744
CONNECT 9746 9747 9744 9748
CONNECT 9747 9746
CONNECT 9748 9746 9752 9749
CONNECT 9749 9748 9750
CONNECT 9750 9749 9751
CONNECT 9751 9750
CONNECT 9752 9753 9748 9754
CONNECT 9753 9752
CONNECT 9754 9752 9756 9755
CONNECT 9755 9754
CONNECT 9756 9764 9754 9757
CONNECT 9757 9756 9758
CONNECT 9758 9757 9759
CONNECT 9759 9758 9761 9760
CONNECT 9760 9759
CONNECT 9761 9762 9759 9763
CONNECT 9762 9761
CONNECT 9763 9761
CONNECT 9764 9766 9765 9756
CONNECT 9765 9764
CONNECT 9766 9768 9767 9764
CONNECT 9767 9766
CONNECT 9768 9774 9769 9766
CONNECT 9769 9770 9768
CONNECT 9770 9771 9769
CONNECT 9771 9773 9772 9770
CONNECT 9772 9771
CONNECT 9773 9771
CONNECT 9774 9776 9775 9768
CONNECT 9775 9774
CONNECT 9776 9777 9778 9774
CONNECT 9777 9781 9779 9776
CONNECT 9778 9780 9776
CONNECT 9779 9777 9780
CONNECT 9780 9779 9778
CONNECT 9781 9783 9782 9777
CONNECT 9782 9781
CONNECT 9783 9785 9784 9781
CONNECT 9784 9783
CONNECT 9785 9790 9786 9783
CONNECT 9786 9787 9785 9788
CONNECT 9787 9789 9786
CONNECT 9788 9786
CONNECT 9789 9787
CONNECT 9790 9792 9791 9785
CONNECT 9791 9790
CONNECT 9792 9794 9793 9790
CONNECT 9793 9792
CONNECT 9794 9799 9795 9792
CONNECT 9795 9794 9796
CONNECT 9796 9795 9798 9797
CONNECT 9797 9796
CONNECT 9798 9796
CONNECT 9799 9801 9800 9794
CONNECT 9800 9799
CONNECT 9801 9803 9802 9799
CONNECT 9802 9801
CONNECT 9803 9811 9804 9801
CONNECT 9804 9805 9803
CONNECT 9805 9807 9806 9804

CONECT 9806 9808 9805
CONECT 9807 9809 9805
CONECT 9808 9810 9806
CONECT 9809 9810 9807
CONECT 9810 9809 9808
CONECT 9811 9813 9812 9803
CONECT 9812 9811
CONECT 9813 9815 9814 9811
CONECT 9814 9813
CONECT 9815 9820 9816 9813
CONECT 9816 9817 9815
CONECT 9817 9818 9819 9816
CONECT 9818 9817
CONECT 9819 9817
CONECT 9820 9821 9822 9815
CONECT 9821 9820
CONECT 9822 9824 9820 9823
CONECT 9823 9822
CONECT 9824 9827 9825 9822
CONECT 9825 9824 9826
CONECT 9826 9825
CONECT 9827 9829 9824 9828
CONECT 9828 9827
CONECT 9829 9830 9831 9827
CONECT 9830 9829
CONECT 9831 9832 9829 9835
CONECT 9832 9833 9831
CONECT 9833 9834 9832
CONECT 9834 9833
CONECT 9835 9831 9836 9837
CONECT 9836 9835
CONECT 9837 9835 9838 9839
CONECT 9838 9837
CONECT 9839 9837 9844 9840
CONECT 9840 9839 9841 9842
CONECT 9841 9843 9840
CONECT 9842 9840
CONECT 9843 9841
CONECT 9844 9846 9839 9845
CONECT 9845 9844
CONECT 9846 9847 9848 9844
CONECT 9847 9846
CONECT 9848 9849 9850 9846
CONECT 9849 9848
CONECT 9850 9852 9848 9851
CONECT 9851 9850
CONECT 9852 9853 9854 9850
CONECT 9853 9852
CONECT 9854 9855 9852 9860
CONECT 9855 9856 9854
CONECT 9856 9857 9855
CONECT 9857 9859 9856 9858
CONECT 9858 9857
CONECT 9859 9857
CONECT 9860 9854 9862 9861
CONECT 9861 9860
CONECT 9862 9860 9863 9864
CONECT 9863 9862
CONECT 9864 9862 9865 9871
CONECT 9865 9864 9866
CONECT 9866 9868 9865 9867
CONECT 9867 9866
CONECT 9868 9870 9869 9866
CONECT 9869 9868
CONECT 9870 9868
CONECT 9871 9864 9873 9872
CONECT 9872 9871
CONECT 9873 9874 9871 9875
CONECT 9874 9873
CONECT 9875 9873 9876 9880
CONECT 9876 9877 9875 9878
CONECT 9877 9876 9879
CONECT 9878 9876
CONECT 9879 9877

CONECT 9880 9882 9875 9881
CONECT 9881 9880
CONECT 9882 9883 9884 9880
CONECT 9883 9882
CONECT 9884 9885 9886 9882
CONECT 9885 9884
CONECT 9886 9884 9887 9888
CONECT 9887 9886
CONECT 9888 9886 9889 9890
CONECT 9889 9888
CONECT 9890 9888 9900 9891
CONECT 9891 9890 9892
CONECT 9892 9893 9891 9894
CONECT 9893 9895 9892
CONECT 9894 9892 9896
CONECT 9895 9893 9897
CONECT 9896 9897 9894
CONECT 9897 9895 9898 9896
CONECT 9898 9897 9899
CONECT 9899 9898
CONECT 9900 9902 9890 9901
CONECT 9901 9900
CONECT 9902 9903 9904 9900
CONECT 9903 9902
CONECT 9904 9902 9905
CONECT 9905 9904 9906 9907
CONECT 9906 9905
CONECT 9907 9905 9908 9909
CONECT 9908 9907
CONECT 9909 9907 9914 9910
CONECT 9910 9909 9911
CONECT 9911 9913 9910 9912
CONECT 9912 9911
CONECT 9913 9911
CONECT 9914 9916 9909 9915
CONECT 9915 9914
CONECT 9916 9918 9917 9914
CONECT 9917 9916
CONECT 9918 9925 9916 9919
CONECT 9919 9918 9920
CONECT 9920 9921 9919 9922
CONECT 9921 9920
CONECT 9922 9920 9924 9923
CONECT 9923 9922
CONECT 9924 9922
CONECT 9925 9926 9927 9918
CONECT 9926 9925
CONECT 9927 9929 9925 9928
CONECT 9928 9927
CONECT 9929 9933 9930 9927
CONECT 9930 9929 9931
CONECT 9931 9930 9932
CONECT 9932 9931
CONECT 9933 9934 9929 9935
CONECT 9934 9933
CONECT 9935 9933 9937 9936
CONECT 9936 9935
CONECT 9937 9950 9935 9938
CONECT 9938 9937 9939
CONECT 9939 9938 9940
CONECT 9940 9941 9939
CONECT 9941 9942 9943 9940
CONECT 9942 9941
CONECT 9943 9947 9941 9944
CONECT 9944 9943 9945 9946
CONECT 9945 9944
CONECT 9946 9944
CONECT 9947 9949 9948 9943
CONECT 9948 9947
CONECT 9949 9947
CONECT 9950 9952 9951 9937
CONECT 9951 9950
CONECT 9952 9954 9953 9950
CONECT 9953 9952

CONECT 9954 9955 9958 9952
CONECT 9955 9957 9956 9954
CONECT 9956 9955
CONECT 9957 9955
CONECT 9958 9960 9954 9959
CONECT 9959 9958
CONECT 9960 9961 9962 9958
CONECT 9961 9960
CONECT 9962 9963 9960 9966
CONECT 9963 9965 9964 9962
CONECT 9964 9963
CONECT 9965 9963
CONECT 9966 9967 9962 9968
CONECT 9967 9966
CONECT 9968 9966 9970 9969
CONECT 9969 9968
CONECT 9970 9968 9974 9971
CONECT 9971 9970 9972
CONECT 9972 9971 9973
CONECT 9973 9972
CONECT 9974 9976 9970 9975
CONECT 9975 9974
CONECT 9976 9977 9978 9974
CONECT 9977 9976
CONECT 9978 9979 9976 9986
CONECT 9979 9980 9978
CONECT 9980 9981 9979
CONECT 9981 9983 9982 9980
CONECT 9982 9981
CONECT 9983 9984 9985 9981
CONECT 9984 9983
CONECT 9985 9983
CONECT 9986 9978 9988 9987
CONECT 9987 9986
CONECT 9988 9989 9986 9990
CONECT 9989 9988
CONECT 9990 9988 9991 9996
CONECT 9991 9992 9990
CONECT 9992 9993 9991
CONECT 9993 9995 9994 9992
CONECT 9994 9993
CONECT 9995 9993
CONECT 9996 9990 9998 9997
CONECT 9997 9996
CONECT 9998 9999 999610000
CONECT 9999 9998
CONECT10000 99981000110006
CONECT100011000010002
CONECT100021000110003
CONECT10003100041000210005
CONECT1000410003
CONECT1000510003
CONECT10006100081000010007
CONECT1000710006
CONECT10008100091001010006
CONECT1000910008
CONECT10010100111000810015
CONECT10011100121001310010
CONECT100121001410011
CONECT1001310011
CONECT1001410012
CONECT10015100171001010016
CONECT1001610015
CONECT10017100181001910015
CONECT1001810017
CONECT10019100201001710023
CONECT10020100221002110019
CONECT1002110020
CONECT1002210020
CONECT10023100191002510024
CONECT1002410023
CONECT10025100261002310027
CONECT1002610025
CONECT10027100251002810040

CONNECT100281002910027
CONNECT100291003010028
CONNECT100301003110029
CONNECT10031100321003010033
CONNECT1003210031
CONNECT10033100311003710034
CONNECT10034100331003610035
CONNECT1003510034
CONNECT1003610034
CONNECT10037100391003810033
CONNECT1003810037
CONNECT1003910037
CONNECT10040100271004210041
CONNECT1004110040
CONNECT10042100431004010044
CONNECT1004310042
CONNECT10044100421004510046
CONNECT1004510044
CONNECT10046100481004410047
CONNECT1004710046
CONNECT10048100491005010046
CONNECT1004910048
CONNECT10050100511004810052
CONNECT1005110050
CONNECT10052100501005410053
CONNECT1005310052
CONNECT10054100551005210056
CONNECT1005510054
CONNECT10056100541005710065
CONNECT100571005810056
CONNECT100581005910057
CONNECT100591006010058
CONNECT100601006110059
CONNECT1006110062100601006310064
CONNECT10061
CONNECT1006210061
CONNECT1006310061
CONNECT1006410061
CONNECT10065100561006610067
CONNECT1006610065
CONNECT10067100651006810069
CONNECT1006810067
CONNECT10069100671007510070
CONNECT100701006910071
CONNECT100711007010072
CONNECT10072100711007310074
CONNECT1007310072
CONNECT1007410072
CONNECT10075100771006910076
CONNECT1007610075
CONNECT10077100781007910075
CONNECT1007810077
CONNECT10079100801007710081
CONNECT1008010079
CONNECT10081100831007910082
CONNECT1008210081
CONNECT10083100841008510081
CONNECT1008410083
CONNECT10085100921008310086
CONNECT100861008510087
CONNECT10087100861008810089
CONNECT1008810087
CONNECT10089100871009010091
CONNECT1009010089
CONNECT1009110089
CONNECT10092100941009310085
CONNECT1009310092
CONNECT10094100961009510092
CONNECT1009510094
CONNECT10096101011009710094
CONNECT10097100981009910096
CONNECT100981010010097
CONNECT1009910097
CONNECT1010010098

CONNECT10101101021010310096
CONNECT1010210101
CONNECT10103101051010110104
CONNECT1010410103
CONNECT10105101141010910103
CONNECT10106101131010710108
CONNECT1010710106
CONNECT10108101061011210109
CONNECT101091010810105
CONNECT10110101111011310112
CONNECT1011110110
CONNECT101121011010108
CONNECT101131011010106
CONNECT10114101151010510116
CONNECT1011510114
CONNECT10116101141011810117
CONNECT1011710116
CONNECT10118101201011610119
CONNECT1011910118
CONNECT10120101211012210118
CONNECT1012110120
CONNECT10122101241012010123
CONNECT1012310122
CONNECT10124101321012510122
CONNECT101251012410126
CONNECT10126101251012810127
CONNECT101271012610129
CONNECT101281012610130
CONNECT101291012710131
CONNECT101301012810131
CONNECT101311013010129
CONNECT10132101331013410124
CONNECT1013310132
CONNECT10134101361013210135
CONNECT1013510134
CONNECT10136101411013710134
CONNECT10137101391013610138
CONNECT101381013710140
CONNECT1013910137
CONNECT1014010138
CONNECT10141101421014310136
CONNECT1014210141
CONNECT10143101451014110144
CONNECT1014410143
CONNECT10145101511014310146
CONNECT101461014510147
CONNECT101471014610148
CONNECT10148101471014910150
CONNECT1014910148
CONNECT1015010148
CONNECT10151101521015310145
CONNECT1015210151
CONNECT10153101551015110154
CONNECT1015410153
CONNECT10155101591015610153
CONNECT101561015710155
CONNECT101571015810156
CONNECT1015810157
CONNECT10159101601015510161
CONNECT1016010159
CONNECT10161101591016310162
CONNECT1016210161
CONNECT10163101681016110164
CONNECT101641016310165
CONNECT10165101641016610167
CONNECT1016610165
CONNECT1016710165
CONNECT10168101701016910163
CONNECT1016910168
CONNECT10170101711017210168
CONNECT10171101731017510170
CONNECT101721017410170
CONNECT101731017110174
CONNECT101741017310172

CONNECT10175101771017110176
CONNECT1017610175
CONNECT10177101781017910175
CONNECT1017810177
CONNECT10179101801017710186
CONNECT101801018110179
CONNECT10181101821018310180
CONNECT1018210181
CONNECT10183101841018110185
CONNECT1018410183
CONNECT1018510183
CONNECT10186101791018710188
CONNECT1018710186
CONNECT10188101861018910190
CONNECT1018910188
CONNECT10190101881019110199
CONNECT101911019210190
CONNECT101921019310191
CONNECT101931019410192
CONNECT101941019510193
CONNECT1019510198101961019710194
CONNECT10195
CONNECT1019610195
CONNECT1019710195
CONNECT1019810195
CONNECT10199101901020110200
CONNECT1020010199
CONNECT10201102021019910203
CONNECT1020210201
CONNECT10203102131020110204
CONNECT102041020310205
CONNECT10205102041020710206
CONNECT102061020510208
CONNECT102071020510209
CONNECT102081020610210
CONNECT102091020710210
CONNECT10210102091020810211
CONNECT102111021010212
CONNECT1021210211
CONNECT10213102151021410203
CONNECT1021410213
CONNECT10215102171021610213
CONNECT1021610215
CONNECT10217102181022110215
CONNECT102181021910217
CONNECT102191022010218
CONNECT1022010219
CONNECT10221102221021710223
CONNECT1022210221
CONNECT10223102211022510224
CONNECT1022410223
CONNECT10225102231023010226
CONNECT10226102251022710229
CONNECT102271022610228
CONNECT1022810227
CONNECT1022910226
CONNECT10230102321022510231
CONNECT1023110230
CONNECT10232102331023410230
CONNECT1023310232
CONNECT10234102351023210243
CONNECT102351023610234
CONNECT102361023710235
CONNECT102371023810236
CONNECT102381023910237
CONNECT1023910242102411024010238
CONNECT10239
CONNECT1024010239
CONNECT1024110239
CONNECT1024210239
CONNECT10243102341024410245
CONNECT1024410243
CONNECT10245102431024610247
CONNECT1024610245

CONNECT10247102451025110248
CONNECT10248102491024710250
CONNECT1024910248
CONNECT1025010248
CONNECT10251102531024710252
CONNECT1025210251
CONNECT10253102541025510251
CONNECT1025410253
CONNECT102551025310256
CONNECT10256102581025510257
CONNECT1025710256
CONNECT10258102591026010256
CONNECT1025910258
CONNECT10260102581026110265
CONNECT102611026010262
CONNECT10262102611026310264
CONNECT1026310262
CONNECT1026410262
CONNECT10265102601026710266
CONNECT1026610265
CONNECT10267102681026510269
CONNECT1026810267
CONNECT10269102671027010278
CONNECT102701027110269
CONNECT102711027210270
CONNECT102721027310271
CONNECT102731027410272
CONNECT1027410275102761027710273
CONNECT10274
CONNECT1027510274
CONNECT1027610274
CONNECT1027710274
CONNECT10278102691028010279
CONNECT1027910278
CONNECT10280102811027810282
CONNECT1028110280
CONNECT102821028010283
CONNECT10283102821028510284
CONNECT1028410283
CONNECT10285102861028310287
CONNECT1028610285
CONNECT10287102921028510288
CONNECT10288102911028710289
CONNECT102891028810290
CONNECT1029010289
CONNECT1029110288
CONNECT10292102931029410287
CONNECT1029310292
CONNECT10294102961029210295
CONNECT1029510294
CONNECT10296102971029410304
CONNECT102971029810296
CONNECT102981029910297
CONNECT10299103001030110298
CONNECT1030010299
CONNECT10301103031029910302
CONNECT1030210301
CONNECT1030310301
CONNECT10304102961030510306
CONNECT1030510304
CONNECT10306103041030710308
CONNECT1030710306
CONNECT10308103061030910313
CONNECT103091031010308
CONNECT10310103121031110309
CONNECT1031110310
CONNECT1031210310
CONNECT10313103081031410315
CONNECT1031410313
CONNECT10315103131031610317
CONNECT1031610315
CONNECT10317103151032110318
CONNECT103181031710319
CONNECT103191031810320

CONNECT1032010319
CONNECT10321103221031710323
CONNECT1032210321
CONNECT10323103211032410325
CONNECT1032410323
CONNECT103251032310326
CONNECT10326103251032710328
CONNECT1032710326
CONNECT10328103261032910330
CONNECT1032910328
CONNECT103301033110328
CONNECT10331103331033210330
CONNECT1033210331
CONNECT10333103351033410331
CONNECT1033410333
CONNECT10335103361034310333
CONNECT103361033710335
CONNECT103371033610338
CONNECT10338103371034010339
CONNECT1033910338
CONNECT10340103411034210338
CONNECT1034110340
CONNECT1034210340
CONNECT10343103441034510335
CONNECT1034410343
CONNECT10345103471034310346
CONNECT1034610345
CONNECT10347103451034810356
CONNECT103481034910347
CONNECT103491035010348
CONNECT103501035110349
CONNECT103511035210350
CONNECT1035210355103531035410351
CONNECT10352
CONNECT1035310352
CONNECT1035410352
CONNECT1035510352
CONNECT10356103471035710358
CONNECT1035710356
CONNECT10358103561035910360
CONNECT1035910358
CONNECT10360103581036810361
CONNECT103611036010362
CONNECT103621036110363
CONNECT10363103641036210365
CONNECT1036410363
CONNECT10365103631036710366
CONNECT1036610365
CONNECT1036710365
CONNECT10368103701036910360
CONNECT1036910368
CONNECT10370103721037110368
CONNECT1037110370
CONNECT10372103851037310370
CONNECT103731037210374
CONNECT103741037310375
CONNECT103751037410376
CONNECT10376103751037810377
CONNECT1037710376
CONNECT10378103791037610382
CONNECT10379103811038010378
CONNECT1038010379
CONNECT1038110379
CONNECT10382103781038310384
CONNECT1038310382
CONNECT1038410382
CONNECT10385103871038610372
CONNECT1038610385
CONNECT10387103891038810385
CONNECT1038810387
CONNECT10389103901039410387
CONNECT10390103921039110389
CONNECT103911039310390
CONNECT1039210390

CONNECT1039310391
CONNECT10394103891039510396
CONNECT1039510394
CONNECT10396103941039710398
CONNECT1039710396
CONNECT10398103961040010399
CONNECT1039910398
CONNECT10400103981040110402
CONNECT1040110400
CONNECT10402104001040310404
CONNECT1040310402
CONNECT10404104091040210405
CONNECT10405104041040710406
CONNECT104061040510408
CONNECT1040710405
CONNECT1040810406
CONNECT10409104111041010404
CONNECT1041010409
CONNECT10411104131041210409
CONNECT1041210411
CONNECT10413104141041510411
CONNECT1041410413
CONNECT10415104171041310416
CONNECT1041610415
CONNECT10417104191041810415
CONNECT1041810417
CONNECT10419104201041710432
CONNECT104201042110419
CONNECT104211042010422
CONNECT104221042110423
CONNECT10423104251042410422
CONNECT1042410423
CONNECT10425104261042910423
CONNECT10426104271042810425
CONNECT1042710426
CONNECT1042810426
CONNECT10429104301042510431
CONNECT1043010429
CONNECT1043110429
CONNECT10432104191043310434
CONNECT1043310432
CONNECT10434104321043510436
CONNECT1043510434
CONNECT10436104341043810437
CONNECT1043710436
CONNECT10438104391043610440
CONNECT1043910438
CONNECT10440104381044110442
CONNECT1044110440
CONNECT10442104471044010443
CONNECT104431044410442
CONNECT10444104451044610443
CONNECT1044510444
CONNECT1044610444
CONNECT10447104491044810442
CONNECT1044810447
CONNECT10449104511045010447
CONNECT1045010449
CONNECT10451104521045510449
CONNECT10452104531045410451
CONNECT1045310452
CONNECT1045410452
CONNECT10455104561045110457
CONNECT1045610455
CONNECT10457104551045910458
CONNECT1045810457
CONNECT10459104571047210460
CONNECT104601045910461
CONNECT104611046010462
CONNECT104621046110463
CONNECT10463104651046410462
CONNECT1046410463
CONNECT10465104691046610463
CONNECT10466104681046710465

CONNECT1046710466
CONNECT1046810466
CONNECT10469104711047010465
CONNECT1047010469
CONNECT1047110469
CONNECT10472104591047310474
CONNECT1047310472
CONNECT10474104721047510476
CONNECT1047510474
CONNECT10476104741047710484
CONNECT104771047810476
CONNECT104781047910477
CONNECT10479104811047810480
CONNECT1048010479
CONNECT10481104831048210479
CONNECT1048210481
CONNECT1048310481
CONNECT10484104761048510486
CONNECT1048510484
CONNECT10486104841048810487
CONNECT10487104861048910491
CONNECT104881048610490
CONNECT104891049010487
CONNECT104901048810489
CONNECT10491104871049210493
CONNECT1049210491
CONNECT10493104911049410495
CONNECT1049410493
CONNECT10495104931049910504
CONNECT10496105031049710498
CONNECT1049710496
CONNECT10498104961050210499
CONNECT104991049810495
CONNECT10500105031050110502
CONNECT1050110500
CONNECT105021050010498
CONNECT105031049610500
CONNECT10504104951050610505
CONNECT1050510504
CONNECT10506105071050410508
CONNECT1050710506
CONNECT10508105061051310509
CONNECT10509105111050810510
CONNECT105101050910512
CONNECT1051110509
CONNECT1051210510
CONNECT10513105141050810515
CONNECT1051410513
CONNECT10515105131051710516
CONNECT1051610515
CONNECT10517105181051510522
CONNECT105181051910517
CONNECT10519105211052010518
CONNECT1052010519
CONNECT1052110519
CONNECT10522105171052410523
CONNECT1052310522
CONNECT10524105251052210526
CONNECT1052510524
CONNECT10526105241052710531
CONNECT105271052810526
CONNECT10528105291052710530
CONNECT1052910528
CONNECT1053010528
CONNECT10531105321052610533
CONNECT1053210531
CONNECT10533105311053510534
CONNECT1053410533
CONNECT10535105331053610540
CONNECT105361053710535
CONNECT10537105381053610539
CONNECT1053810537
CONNECT1053910537
CONNECT10540105351054210541

CONNECT1054110540
CONNECT10542105431054410540
CONNECT1054310542
CONNECT10544105451054210549
CONNECT105451054410546
CONNECT10546105451054810547
CONNECT1054710546
CONNECT1054810546
CONNECT10549105501054410551
CONNECT1055010549
CONNECT10551105491055310552
CONNECT1055210551
CONNECT10553105591055110554
CONNECT105541055310555
CONNECT105551055410556
CONNECT10556105571055510558
CONNECT1055710556
CONNECT1055810556
CONNECT10559105611056010553
CONNECT1056010559
CONNECT10561105631056210559
CONNECT1056210561
CONNECT10563105641056510561
CONNECT1056410563
CONNECT10565105661056310567
CONNECT1056610565
CONNECT10567105651056910568
CONNECT1056810567
CONNECT10569105671057010574
CONNECT10570105711056910573
CONNECT105711057210570
CONNECT1057210571
CONNECT1057310570
CONNECT10574105691057610575
CONNECT1057510574
CONNECT10576105771057410578
CONNECT1057710576
CONNECT10578105761058210579
CONNECT105791057810580
CONNECT105801057910581
CONNECT1058110580
CONNECT10582105841057810583
CONNECT1058310582
CONNECT10584105851058610582
CONNECT1058510584
CONNECT10586105881058710584
CONNECT1058710586
CONNECT10588105891059010586
CONNECT1058910588
CONNECT10590105921058810591
CONNECT1059110590
CONNECT10592105931059710590
CONNECT105931059410592
CONNECT10594105951059610593
CONNECT1059510594
CONNECT1059610594
CONNECT10597105921059910598
CONNECT1059810597
CONNECT10599106001060110597
CONNECT1060010599
CONNECT10601106021059910606
CONNECT106021060310601
CONNECT10603106051060210604
CONNECT1060410603
CONNECT1060510603
CONNECT10606106011060710608
CONNECT1060710606
CONNECT10608106091060610610
CONNECT1060910608
CONNECT10610106151060810611
CONNECT10611106101061410612
CONNECT106121061110613
CONNECT1061310612
CONNECT1061410611

CONNECT10615106171061610610
CONNECT1061610615
CONNECT10617106191061810615
CONNECT1061810617
CONNECT10619106201062510617
CONNECT106201062110619
CONNECT106211062010622
CONNECT10622106211062410623
CONNECT1062310622
CONNECT1062410622
CONNECT10625106271062610619
CONNECT1062610625
CONNECT10627106291062810625
CONNECT1062810627
CONNECT10629106301062710633
CONNECT106301063110629
CONNECT106311063210630
CONNECT1063210631
CONNECT10633106291063410635
CONNECT1063410633
CONNECT10635106331063610637
CONNECT1063610635
CONNECT10637106351064310638
CONNECT106381063710639
CONNECT106391063810640
CONNECT10640106391064210641
CONNECT1064110640
CONNECT1064210640
CONNECT10643106371064410645
CONNECT1064410643
CONNECT10645106431064610647
CONNECT1064610645
CONNECT10647106561064510648
CONNECT106481064710649
CONNECT106491065010648
CONNECT106501065110649
CONNECT106511065210650
CONNECT1065210654106551065310651
CONNECT10652
CONNECT1065310652
CONNECT1065410652
CONNECT1065510652
CONNECT10656106581065710647
CONNECT1065710656
CONNECT10658106601065910656
CONNECT1065910658
CONNECT10660106611066410658
CONNECT10661106631066210660
CONNECT1066210661
CONNECT1066310661
CONNECT10664106651066010666
CONNECT1066510664
CONNECT10666106641066810667
CONNECT1066710666
CONNECT10668106691066610672
CONNECT10669106711066810670
CONNECT1067010669
CONNECT1067110669
CONNECT10672106681067310674
CONNECT1067310672
CONNECT10674106721067510676
CONNECT1067510674
CONNECT10676106741068410677
CONNECT106771067610678
CONNECT106781067710679
CONNECT10679106801067810681
CONNECT1068010679
CONNECT10681106791068310682
CONNECT1068210681
CONNECT1068310681
CONNECT10684106861067610685
CONNECT1068510684
CONNECT10686106881068710684
CONNECT1068710686

CONNECT10688106941068910686
CONNECT106891069010688
CONNECT106901069110689
CONNECT10691106921069310690
CONNECT1069210691
CONNECT1069310691
CONNECT10694106961069510688
CONNECT1069510694
CONNECT10696106981069710694
CONNECT1069710696
CONNECT10698106991070010696
CONNECT1069910698
CONNECT10700106981070110702
CONNECT1070110700
CONNECT10702107001070310704
CONNECT1070310702
CONNECT10704107021070510709
CONNECT107051070410706
CONNECT10706107051070710708
CONNECT1070710706
CONNECT1070810706
CONNECT10709107041071010711
CONNECT1071010709
CONNECT10711107091071210713
CONNECT1071210711
CONNECT10713107111071810714
CONNECT107141071310715
CONNECT10715107141071610717
CONNECT1071610715
CONNECT1071710715
CONNECT10718107201071910713
CONNECT1071910718
CONNECT10720107221072110718
CONNECT1072110720
CONNECT10722107231073110720
CONNECT107231072410722
CONNECT107241072310725
CONNECT107251072410726
CONNECT107261072510727
CONNECT1072710726107291072810730
CONNECT10727
CONNECT1072810727
CONNECT1072910727
CONNECT1073010727
CONNECT10731107331073210722
CONNECT1073210731
CONNECT10733107351073410731
CONNECT1073410733
CONNECT10735107361073310737
CONNECT1073610735
CONNECT10737107351073810739
CONNECT1073810737
CONNECT10739107371074010741
CONNECT1074010739
CONNECT10741107391075410742
CONNECT107421074110743
CONNECT107431074210744
CONNECT107441074310745
CONNECT10745107441074610747
CONNECT1074610745
CONNECT10747107451074810751
CONNECT10748107491074710750
CONNECT1074910748
CONNECT1075010748
CONNECT10751107471075210753
CONNECT1075210751
CONNECT1075310751
CONNECT10754107551074110756
CONNECT1075510754
CONNECT10756107541075710758
CONNECT1075710756
CONNECT10758107641075610759
CONNECT107591075810760
CONNECT107601075910761

CONNECT10761107621076010763
CONNECT1076210761
CONNECT1076310761
CONNECT10764107661076510758
CONNECT1076510764
CONNECT10766107681076710764
CONNECT1076710766
CONNECT107681076910766
CONNECT10769107681077010771
CONNECT1077010769
CONNECT10771107691077310772
CONNECT1077210771
CONNECT10773107741077110786
CONNECT107741077510773
CONNECT107751077610774
CONNECT107761077710775
CONNECT10777107791077810776
CONNECT1077810777
CONNECT10779107801078310777
CONNECT10780107821078110779
CONNECT1078110780
CONNECT1078210780
CONNECT10783107851077910784
CONNECT1078410783
CONNECT1078510783
CONNECT10786107731078810787
CONNECT1078710786
CONNECT10788107861078910790
CONNECT1078910788
CONNECT10790107881079510791
CONNECT10791107941079010792
CONNECT107921079110793
CONNECT1079310792
CONNECT1079410791
CONNECT10795107961079010797
CONNECT1079610795
CONNECT10797107951079910798
CONNECT1079810797
CONNECT10799108001079710802
CONNECT108001079910801
CONNECT1080110800
CONNECT10802107991080410803
CONNECT1080310802
CONNECT10804108051080210806
CONNECT1080510804
CONNECT10806108041081110807
CONNECT10807108061080810809
CONNECT108081080710810
CONNECT1080910807
CONNECT1081010808
CONNECT10811108121080610813
CONNECT1081210811
CONNECT10813108111081510814
CONNECT1081410813
CONNECT10815108161081310819
CONNECT10816108181081510817
CONNECT1081710816
CONNECT1081810816
CONNECT10819108151082110820
CONNECT1082010819
CONNECT10821108221081910823
CONNECT1082210821
CONNECT10823108211082810824
CONNECT10824108251082610823
CONNECT108251082710824
CONNECT1082610824
CONNECT1082710825
CONNECT10828108291082310830
CONNECT1082910828
CONNECT10830108281083210831
CONNECT1083110830
CONNECT10832108331083010834
CONNECT1083310832
CONNECT10834108321083610835

CONNECT1083510834
CONNECT10836108371083410838
CONNECT1083710836
CONNECT10838108361084210847
CONNECT10839108411084010846
CONNECT1084010839
CONNECT10841108421084510839
CONNECT108421083810841
CONNECT10843108451084610844
CONNECT1084410843
CONNECT108451084110843
CONNECT108461083910843
CONNECT10847108491083810848
CONNECT1084810847
CONNECT10849108501085110847
CONNECT1085010849
CONNECT10851108521084910864
CONNECT108521085310851
CONNECT108531085410852
CONNECT108541085510853
CONNECT10855108571085610854
CONNECT1085610855
CONNECT10857108611085810855
CONNECT10858108571085910860
CONNECT1085910858
CONNECT1086010858
CONNECT10861108621086310857
CONNECT1086210861
CONNECT1086310861
CONNECT10864108511086510866
CONNECT1086510864
CONNECT10866108641086710868
CONNECT1086710866
CONNECT10868108661087310869
CONNECT108691086810870
CONNECT10870108721086910871
CONNECT1087110870
CONNECT1087210870
CONNECT10873108751086810874
CONNECT1087410873
CONNECT10875108761087710873
CONNECT1087610875
CONNECT10877108811087810875
CONNECT108781087910877
CONNECT108791088010878
CONNECT1088010879
CONNECT10881108831087710882
CONNECT1088210881
CONNECT10883108851088410881
CONNECT1088410883
CONNECT10885108861089010883
CONNECT10886108871088910885
CONNECT108871088810886
CONNECT1088810887
CONNECT1088910886
CONNECT10890108911088510892
CONNECT1089110890
CONNECT10892108901089410893
CONNECT1089310892
CONNECT10894108921089510899
CONNECT10895108941089610897
CONNECT108961089510898
CONNECT1089710895
CONNECT1089810896
CONNECT10899108941090010901
CONNECT1090010899
CONNECT10901108991090210903
CONNECT1090210901
CONNECT10903109011091110904
CONNECT109041090310905
CONNECT109051090410906
CONNECT10906109071090510908
CONNECT1090710906
CONNECT10908109061090910910

CONNECT1090910908
CONNECT1091010908
CONNECT10911109131090310912
CONNECT1091210911
CONNECT10913109141091510911
CONNECT1091410913
CONNECT10915109161092210913
CONNECT109161091710915
CONNECT10917109191091610918
CONNECT1091810917
CONNECT10919109201092110917
CONNECT1092010919
CONNECT1092110919
CONNECT10922109231091510924
CONNECT1092310922
CONNECT10924109221092610925
CONNECT1092510924
CONNECT10926109241092710928
CONNECT1092710926
CONNECT10928109261093010929
CONNECT1092910928
CONNECT10930109311092810932
CONNECT1093110930
CONNECT10932109331093010937
CONNECT109331093410932
CONNECT10934109361093510933
CONNECT1093510934
CONNECT1093610934
CONNECT10937109321093910938
CONNECT1093810937
CONNECT10939109401093710941
CONNECT1094010939
CONNECT10941109391094610942
CONNECT109421094110943
CONNECT10943109421094510944
CONNECT1094410943
CONNECT1094510943
CONNECT10946109471094110948
CONNECT1094710946
CONNECT10948109461095010949
CONNECT1094910948
CONNECT10950109481095110955
CONNECT10951109521095010953
CONNECT109521095410951
CONNECT1095310951
CONNECT1095410952
CONNECT10955109501095710956
CONNECT1095610955
CONNECT10957109581095510959
CONNECT1095810957
CONNECT10959109571096010963
CONNECT10960109621095910961
CONNECT1096110960
CONNECT1096210960
CONNECT10963109641095910965
CONNECT1096410963
CONNECT10965109631096710966
CONNECT1096610965
CONNECT10967109651097110968
CONNECT10968109671097010969
CONNECT1096910968
CONNECT1097010968
CONNECT10971109731096710972
CONNECT1097210971
CONNECT10973109741097510971
CONNECT1097410973
CONNECT10975109761097310983
CONNECT109761097710975
CONNECT10977109791097810976
CONNECT109781098010977
CONNECT109791098110977
CONNECT109801098210978
CONNECT109811098210979
CONNECT109821098110980

CONNECT10983109841097510985
CONNECT1098410983
CONNECT10985109831098710986
CONNECT1098610985
CONNECT10987109951098510988
CONNECT109881098710989
CONNECT109891099010988
CONNECT10990109911098910992
CONNECT1099110990
CONNECT10992109901099310994
CONNECT1099310992
CONNECT1099410992
CONNECT10995109971098710996
CONNECT1099610995
CONNECT10997109991099810995
CONNECT1099810997
CONNECT10999110001100610997
CONNECT110001100110999
CONNECT11001110021100311000
CONNECT1100211001
CONNECT11003110041100111005
CONNECT1100411003
CONNECT1100511003
CONNECT11006110081099911007
CONNECT1100711006
CONNECT11008110091101011006
CONNECT1100911008
CONNECT110101100811011
CONNECT11011110101101211013
CONNECT1101211011
CONNECT11013110111101411015
CONNECT1101411013
CONNECT11015110131102811016
CONNECT110161101511017
CONNECT110171101611018
CONNECT110181101911017
CONNECT11019110181102011021
CONNECT1102011019
CONNECT11021110191102211025
CONNECT11022110241102311021
CONNECT1102311022
CONNECT1102411022
CONNECT11025110211102711026
CONNECT1102611025
CONNECT1102711025
CONNECT11028110151103011029
CONNECT1102911028
CONNECT11030110281103111032
CONNECT1103111030
CONNECT11032110331103011036
CONNECT11033110341103511032
CONNECT1103411033
CONNECT1103511033
CONNECT11036110321103811037
CONNECT1103711036
CONNECT11038110391103611040
CONNECT1103911038
CONNECT11040110381104911041
CONNECT110411104011042
CONNECT110421104111043
CONNECT110431104211044
CONNECT110441104311045
CONNECT1104511047110481104411046
CONNECT11045
CONNECT1104611045
CONNECT1104711045
CONNECT1104811045
CONNECT11049110511104011050
CONNECT1105011049
CONNECT11051110521105311049
CONNECT1105211051
CONNECT11053110591105111054
CONNECT110541105311055
CONNECT110551105411056

CONNECT11056110571105511058
CONNECT1105711056
CONNECT1105811056
CONNECT11059110601106111053
CONNECT1106011059
CONNECT11061110631105911062
CONNECT1106211061
CONNECT11063110671107211061
CONNECT11064110651106611071
CONNECT1106511064
CONNECT11066110671106411070
CONNECT110671106311066
CONNECT11068110711107011069
CONNECT1106911068
CONNECT110701106611068
CONNECT110711106411068
CONNECT11072110741106311073
CONNECT1107311072
CONNECT11074110751107611072
CONNECT1107511074
CONNECT110761107711074
CONNECT11077110781107911076
CONNECT1107811077
CONNECT11079110771108111080
CONNECT1108011079
CONNECT11081110861108211079
CONNECT11082110851108111083
CONNECT110831108211084
CONNECT1108411083
CONNECT1108511082
CONNECT11086110881108111087
CONNECT1108711086
CONNECT11088110891109011086
CONNECT1108911088
CONNECT11090110941108811099
CONNECT11091110931109811092
CONNECT1109211091
CONNECT11093110971109411091
CONNECT110941109311090
CONNECT11095110961109711098
CONNECT1109611095
CONNECT110971109511093
CONNECT110981109511091
CONNECT11099110901110111100
CONNECT1110011099
CONNECT11101111021109911103
CONNECT1110211101
CONNECT11103111011110411111
CONNECT111041110311105
CONNECT111051110611104
CONNECT11106111071110811105
CONNECT1110711106
CONNECT11108111091110611110
CONNECT1110911108
CONNECT1111011108
CONNECT11111111031111311112
CONNECT1111211111
CONNECT1111311114111111115
CONNECT1111411113
CONNECT11115111131111611123
CONNECT111161111511117
CONNECT111171111611118
CONNECT11118111191112011117
CONNECT1111911118
CONNECT11120111181112211121
CONNECT1112111120
CONNECT1112211120
CONNECT11123111251111511124
CONNECT1112411123
CONNECT11125111261112711123
CONNECT1112611125
CONNECT11127111281112511132
CONNECT111281112911127
CONNECT11129111301113111128

CONNECT1113011129
CONNECT1113111129
CONNECT11132111271113411133
CONNECT1113311132
CONNECT11134111351113211136
CONNECT1113511134
CONNECT11136111341113711141
CONNECT111371113611138
CONNECT11138111371114011139
CONNECT1113911138
CONNECT1114011138
CONNECT11141111361114311142
CONNECT1114211141
CONNECT11143111441114111145
CONNECT1114411143
CONNECT11145111431114611147
CONNECT1114611145
CONNECT11147111491114511148
CONNECT1114811147
CONNECT11149111501115111147
CONNECT1115011149
CONNECT11151111521114911159
CONNECT111521115311151
CONNECT111531115411152
CONNECT11154111551115611153
CONNECT1115511154
CONNECT11156111571115411158
CONNECT1115711156
CONNECT1115811156
CONNECT11159111601115111161
CONNECT1116011159
CONNECT11161111591116311162
CONNECT1116211161
CONNECT11163111721116111164
CONNECT111641116311165
CONNECT111651116611164
CONNECT111661116711165
CONNECT111671116611168
CONNECT1116811171111671116911170
CONNECT11168
CONNECT1116911168
CONNECT1117011168
CONNECT1117111168
CONNECT11172111741116311173
CONNECT1117311172
CONNECT11174111751117611172
CONNECT1117511174
CONNECT111761117711174
CONNECT11177111791117811176
CONNECT1117811177
CONNECT11179111811118011177
CONNECT1118011179
CONNECT11181111861118211179
CONNECT11182111841118111183
CONNECT111831118211185
CONNECT1118411182
CONNECT1118511183
CONNECT11186111871118811181
CONNECT1118711186
CONNECT11188111901118611189
CONNECT1118911188
CONNECT11190111911120011188
CONNECT111911119211190
CONNECT11192111931119411191
CONNECT111931119511192
CONNECT111941119611192
CONNECT111951119711193
CONNECT111961119711194
CONNECT11197111981119511196
CONNECT111981119911197
CONNECT1119911198
CONNECT11200112011119011202
CONNECT1120111200
CONNECT11202112001120411203

CONNECT1120311202
CONNECT11204112021121211205
CONNECT112051120411206
CONNECT11206112051120711208
CONNECT112071120611209
CONNECT112081120611210
CONNECT112091120711211
CONNECT112101120811211
CONNECT112111120911210
CONNECT11212112131121411204
CONNECT1121311212
CONNECT11214112121121611215
CONNECT1121511214
CONNECT11216112201121411217
CONNECT112171121611218
CONNECT112181121711219
CONNECT1121911218
CONNECT11220112221122111216
CONNECT1122111220
CONNECT11222112241122311220
CONNECT1122311222
CONNECT11224112251122911222
CONNECT112251122611224
CONNECT112261122711225
CONNECT112271122811226
CONNECT1122811227
CONNECT11229112301122411231
CONNECT1123011229
CONNECT11231112291123311232
CONNECT1123211231
CONNECT11233112311123411237
CONNECT11234112351123311236
CONNECT1123511234
CONNECT1123611234
CONNECT11237112331123811239
CONNECT1123811237
CONNECT11239112371124011241
CONNECT1124011239
CONNECT11241112451123911242
CONNECT112421124111243
CONNECT112431124211244
CONNECT1124411243
CONNECT11245112471124611241
CONNECT1124611245
CONNECT11247112491124811245
CONNECT1124811247
CONNECT11249112531125011247
CONNECT11250112511125211249
CONNECT1125111250
CONNECT1125211250
CONNECT11253112541125511249
CONNECT1125411253
CONNECT11255112571125311256
CONNECT1125611255
CONNECT11257112581126511255
CONNECT112581125911257
CONNECT112591126011258
CONNECT11260112621125911261
CONNECT1126111260
CONNECT11262112631126411260
CONNECT1126311262
CONNECT1126411262
CONNECT11265112661125711267
CONNECT1126611265
CONNECT11267112651126911268
CONNECT1126811267
CONNECT11269112671127111270
CONNECT1127011269
CONNECT11271112721126911273
CONNECT1127211271
CONNECT1127311271
CONNECT1127411279
CONNECT1127511280
CONNECT11276112781128011281

[illegible]