

```

REMARK 4 XXXX COMPLIES WITH FORMAT V. 2.0
COMPND W:\zeph\SINDHU\DLG FILES\mutant5drug1\complex51.pdbqt
AUTHOR GENERATED BY OPEN BABEL 2.3.1
ATOM 1 N VAL 1 49.342 80.515 8.408 1.00 0.00 N
ATOM 2 HN1 VAL 1 49.642 80.757 7.464 1.00 0.00 H
ATOM 3 HN2 VAL 1 48.426 80.905 8.631 1.00 0.00 H
ATOM 4 HN3 VAL 1 49.107 79.526 8.494 1.00 0.00 H
ATOM 5 CA VAL 1 50.373 80.927 9.384 1.00 0.00 C
ATOM 6 CB VAL 1 50.613 82.405 9.288 1.00 0.00 C
ATOM 7 CG1 VAL 1 51.198 82.706 7.896 1.00 0.00 C
ATOM 8 CG2 VAL 1 49.293 83.140 9.573 1.00 0.00 C
ATOM 9 C VAL 1 49.935 80.574 10.761 1.00 0.00 C
ATOM 10 O VAL 1 49.431 79.481 10.974 1.00 0.00 O
ATOM 11 N SER 2 50.059 81.491 11.734 1.00 0.00 N
ATOM 12 HN SER 2 50.379 82.432 11.505 1.00 0.00 H
ATOM 13 CA SER 2 49.744 81.156 13.094 1.00 0.00 C
ATOM 14 CB SER 2 49.887 82.359 14.039 1.00 0.00 C
ATOM 15 OG SER 2 49.003 83.398 13.645 1.00 0.00 O
ATOM 16 HG SER 2 49.091 84.142 14.229 1.00 0.00 H
ATOM 17 C SER 2 48.335 80.659 13.168 1.00 0.00 C
ATOM 18 O SER 2 48.022 79.795 13.985 1.00 0.00 O
ATOM 19 N VAL 3 47.437 81.169 12.305 1.00 0.00 N
ATOM 20 HN VAL 3 47.701 81.865 11.608 1.00 0.00 H
ATOM 21 CA VAL 3 46.095 80.687 12.413 1.00 0.00 C
ATOM 22 CB VAL 3 45.163 81.380 11.448 1.00 0.00 C
ATOM 23 CG1 VAL 3 45.044 82.851 11.865 1.00 0.00 C
ATOM 24 CG2 VAL 3 45.707 81.260 10.014 1.00 0.00 C
ATOM 25 C VAL 3 46.032 79.196 12.191 1.00 0.00 C
ATOM 26 O VAL 3 45.829 78.472 13.158 1.00 0.00 O
ATOM 27 N PHE 4 46.225 78.669 10.956 1.00 0.00 N
ATOM 28 HN PHE 4 46.448 79.277 10.168 1.00 0.00 H
ATOM 29 CA PHE 4 46.113 77.241 10.762 1.00 0.00 C
ATOM 30 CB PHE 4 45.734 76.796 9.332 1.00 0.00 C
ATOM 31 CG PHE 4 46.806 77.098 8.345 1.00 0.00 C
ATOM 32 CD1 PHE 4 47.897 76.269 8.224 1.00 0.00 C
ATOM 33 CD2 PHE 4 46.703 78.190 7.515 1.00 0.00 C
ATOM 34 CE1 PHE 4 48.880 76.538 7.301 1.00 0.00 C
ATOM 35 CE2 PHE 4 47.685 78.463 6.593 1.00 0.00 C
ATOM 36 CZ PHE 4 48.777 77.638 6.485 1.00 0.00 C
ATOM 37 C PHE 4 47.345 76.513 11.215 1.00 0.00 C
ATOM 38 O PHE 4 47.265 75.456 11.837 1.00 0.00 O
ATOM 39 N SER 5 48.526 77.067 10.880 1.00 0.00 N
ATOM 40 HN SER 5 48.504 77.951 10.371 1.00 0.00 H
ATOM 41 CA SER 5 49.816 76.509 11.184 1.00 0.00 C
ATOM 42 CB SER 5 50.980 77.271 10.524 1.00 0.00 C
ATOM 43 OG SER 5 50.881 77.192 9.111 1.00 0.00 O
ATOM 44 HG SER 5 51.599 77.662 8.704 1.00 0.00 H
ATOM 45 C SER 5 50.093 76.492 12.656 1.00 0.00 C
ATOM 46 O SER 5 50.372 75.427 13.196 1.00 0.00 O
ATOM 47 N MET 6 50.007 77.644 13.359 1.00 0.00 N
ATOM 48 HN MET 6 49.741 78.513 12.896 1.00 0.00 H
ATOM 49 CA MET 6 50.296 77.627 14.771 1.00 0.00 C
ATOM 50 CB MET 6 50.148 78.979 15.496 1.00 0.00 C
ATOM 51 CG MET 6 50.657 78.932 16.940 1.00 0.00 C
ATOM 52 SD MET 6 52.468 78.994 17.096 1.00 0.00 S
ATOM 53 CE MET 6 52.614 77.799 18.453 1.00 0.00 C
ATOM 54 C MET 6 49.278 76.711 15.333 1.00 0.00 C
ATOM 55 O MET 6 49.553 75.944 16.254 1.00 0.00 O
ATOM 56 N PHE 7 48.082 76.741 14.719 1.00 0.00 N
ATOM 57 HN PHE 7 47.941 77.369 13.928 1.00 0.00 H
ATOM 58 CA PHE 7 47.006 75.909 15.156 1.00 0.00 C
ATOM 59 CB PHE 7 45.735 76.011 14.301 1.00 0.00 C
ATOM 60 CG PHE 7 44.643 75.282 15.001 1.00 0.00 C
ATOM 61 CD1 PHE 7 44.485 73.926 14.834 1.00 0.00 C
ATOM 62 CD2 PHE 7 43.776 75.960 15.826 1.00 0.00 C
ATOM 63 CE1 PHE 7 43.476 73.254 15.481 1.00 0.00 C
ATOM 64 CE2 PHE 7 42.767 75.292 16.476 1.00 0.00 C
ATOM 65 CZ PHE 7 42.614 73.937 16.304 1.00 0.00 C
ATOM 66 C PHE 7 47.460 74.497 15.039 1.00 0.00 C
ATOM 67 O PHE 7 47.180 73.680 15.914 1.00 0.00 O
ATOM 68 N ARG 8 48.147 74.145 13.937 1.00 0.00 N
ATOM 69 HN ARG 8 48.349 74.814 13.194 1.00 0.00 H
ATOM 70 CA ARG 8 48.579 72.785 13.862 1.00 0.00 C
ATOM 71 CB ARG 8 48.087 72.089 12.588 1.00 0.00 C

```

ATOM	72	CG	ARG	8	48.265	70.574	12.587	1.00	0.00	C
ATOM	73	CD	ARG	8	47.596	69.922	11.379	1.00	0.00	C
ATOM	74	NE	ARG	8	48.113	70.637	10.180	1.00	0.00	N
ATOM	75	HE	ARG	8	48.995	71.146	10.233	1.00	0.00	H
ATOM	76	CZ	ARG	8	47.411	70.614	9.009	1.00	0.00	C
ATOM	77	NH1	ARG	8	46.238	69.924	8.929	1.00	0.00	N
ATOM	78	1HH1	ARG	8	45.714	69.907	8.054	1.00	0.00	H
ATOM	79	2HH1	ARG	8	45.883	69.423	9.744	1.00	0.00	H
ATOM	80	NH2	ARG	8	47.886	71.284	7.919	1.00	0.00	N
ATOM	81	1HH2	ARG	8	47.362	71.267	7.044	1.00	0.00	H
ATOM	82	2HH2	ARG	8	48.764	71.800	7.979	1.00	0.00	H
ATOM	83	C	ARG	8	50.074	72.800	13.867	1.00	0.00	C
ATOM	84	O	ARG	8	50.705	72.707	12.816	1.00	0.00	O
ATOM	85	N	TYR	9	50.678	72.878	15.073	1.00	0.00	N
ATOM	86	HN	TYR	9	50.101	72.879	15.914	1.00	0.00	H
ATOM	87	CA	TYR	9	52.105	72.959	15.209	1.00	0.00	C
ATOM	88	CB	TYR	9	52.594	74.227	15.941	1.00	0.00	C
ATOM	89	CG	TYR	9	52.370	74.074	17.410	1.00	0.00	C
ATOM	90	CD1	TYR	9	51.104	74.041	17.948	1.00	0.00	C
ATOM	91	CD2	TYR	9	53.449	73.996	18.262	1.00	0.00	C
ATOM	92	CE1	TYR	9	50.918	73.907	19.305	1.00	0.00	C
ATOM	93	CE2	TYR	9	53.272	73.862	19.620	1.00	0.00	C
ATOM	94	CZ	TYR	9	52.003	73.815	20.145	1.00	0.00	C
ATOM	95	OH	TYR	9	51.814	73.677	21.537	1.00	0.00	O
ATOM	96	HH	TYR	9	52.564	73.613	22.117	1.00	0.00	H
ATOM	97	C	TYR	9	52.499	71.780	16.052	1.00	0.00	C
ATOM	98	O	TYR	9	51.673	70.915	16.331	1.00	0.00	O
ATOM	99	N	SER	10	53.784	71.701	16.453	1.00	0.00	N
ATOM	100	HN	SER	10	54.430	72.424	16.137	1.00	0.00	H
ATOM	101	CA	SER	10	54.299	70.655	17.302	1.00	0.00	C
ATOM	102	CB	SER	10	53.885	70.820	18.777	1.00	0.00	C
ATOM	103	OG	SER	10	52.474	70.745	18.910	1.00	0.00	O
ATOM	104	HG	SER	10	52.219	70.847	19.819	1.00	0.00	H
ATOM	105	C	SER	10	53.962	69.249	16.854	1.00	0.00	C
ATOM	106	O	SER	10	53.069	68.623	17.424	1.00	0.00	O
ATOM	107	N	ASN	11	54.633	68.702	15.799	1.00	0.00	N
ATOM	108	HN	ASN	11	55.330	69.228	15.271	1.00	0.00	H
ATOM	109	CA	ASN	11	54.298	67.330	15.472	1.00	0.00	C
ATOM	110	CB	ASN	11	53.066	67.221	14.550	1.00	0.00	C
ATOM	111	CG	ASN	11	51.930	68.139	14.978	1.00	0.00	C
ATOM	112	OD1	ASN	11	51.795	69.238	14.443	1.00	0.00	O
ATOM	113	ND2	ASN	11	51.077	67.683	15.933	1.00	0.00	N
ATOM	114	1HD2	ASN	11	51.189	66.771	16.377	1.00	0.00	H
ATOM	115	2HD2	ASN	11	50.316	68.298	16.220	1.00	0.00	H
ATOM	116	C	ASN	11	55.337	66.696	14.577	1.00	0.00	C
ATOM	117	O	ASN	11	55.158	66.733	13.360	1.00	0.00	O
ATOM	118	N	TRP	12	56.447	66.102	15.072	1.00	0.00	N
ATOM	119	HN	TRP	12	56.701	66.112	16.060	1.00	0.00	H
ATOM	120	CA	TRP	12	57.231	65.454	14.053	1.00	0.00	C
ATOM	121	CB	TRP	12	58.649	65.065	14.495	1.00	0.00	C
ATOM	122	CG	TRP	12	59.450	64.515	13.342	1.00	0.00	C
ATOM	123	CD2	TRP	12	60.834	64.137	13.413	1.00	0.00	C
ATOM	124	CD1	TRP	12	59.052	64.293	12.058	1.00	0.00	C
ATOM	125	NE1	TRP	12	60.103	63.808	11.317	1.00	0.00	N
ATOM	126	HE1	TRP	12	60.073	63.565	10.327	1.00	0.00	H
ATOM	127	CE2	TRP	12	61.205	63.705	12.140	1.00	0.00	C
ATOM	128	CE3	TRP	12	61.719	64.152	14.449	1.00	0.00	C
ATOM	129	CZ2	TRP	12	62.478	63.278	11.887	1.00	0.00	C
ATOM	130	CZ3	TRP	12	63.001	63.718	14.193	1.00	0.00	C
ATOM	131	CH2	TRP	12	63.372	63.289	12.935	1.00	0.00	C
ATOM	132	C	TRP	12	56.538	64.197	13.604	1.00	0.00	C
ATOM	133	O	TRP	12	55.891	64.152	12.559	1.00	0.00	O
ATOM	134	N	LEU	13	56.553	63.174	14.484	1.00	0.00	N
ATOM	135	HN	LEU	13	56.978	63.333	15.397	1.00	0.00	H
ATOM	136	CA	LEU	13	56.005	61.874	14.210	1.00	0.00	C
ATOM	137	CB	LEU	13	56.147	60.882	15.375	1.00	0.00	C
ATOM	138	CG	LEU	13	57.585	60.665	15.869	1.00	0.00	C
ATOM	139	CD1	LEU	13	58.133	61.925	16.557	1.00	0.00	C
ATOM	140	CD2	LEU	13	57.668	59.423	16.763	1.00	0.00	C
ATOM	141	C	LEU	13	54.545	62.082	14.060	1.00	0.00	C
ATOM	142	O	LEU	13	53.844	61.304	13.415	1.00	0.00	O
ATOM	143	N	ASP	14	54.045	63.115	14.752	1.00	0.00	N
ATOM	144	HN	ASP	14	54.669	63.704	15.304	1.00	0.00	H
ATOM	145	CA	ASP	14	52.647	63.398	14.723	1.00	0.00	C

ATOM	146	CB	ASP	14	52.262	64.593	15.613	1.00	0.00	C
ATOM	147	CG	ASP	14	52.363	64.178	17.076	1.00	0.00	C
ATOM	148	OD1	ASP	14	51.716	63.161	17.441	1.00	0.00	O
ATOM	149	OD2	ASP	14	53.076	64.872	17.850	1.00	0.00	O
ATOM	150	C	ASP	14	52.236	63.739	13.325	1.00	0.00	C
ATOM	151	O	ASP	14	51.354	63.105	12.748	1.00	0.00	O
ATOM	152	N	LYS	15	52.926	64.707	12.700	1.00	0.00	N
ATOM	153	HN	LYS	15	53.741	65.130	13.143	1.00	0.00	H
ATOM	154	CA	LYS	15	52.500	65.136	11.402	1.00	0.00	C
ATOM	155	CB	LYS	15	53.318	66.322	10.863	1.00	0.00	C
ATOM	156	CG	LYS	15	52.617	67.089	9.738	1.00	0.00	C
ATOM	157	CD	LYS	15	53.185	68.497	9.540	1.00	0.00	C
ATOM	158	CE	LYS	15	52.359	69.391	8.611	1.00	0.00	C
ATOM	159	NZ	LYS	15	52.712	69.124	7.200	1.00	0.00	N
ATOM	160	HZ1	LYS	15	52.162	69.720	6.581	1.00	0.00	H
ATOM	161	HZ2	LYS	15	52.616	68.136	6.963	1.00	0.00	H
ATOM	162	HZ3	LYS	15	53.713	69.222	7.032	1.00	0.00	H
ATOM	163	C	LYS	15	52.574	63.978	10.446	1.00	0.00	C
ATOM	164	O	LYS	15	51.742	63.865	9.548	1.00	0.00	O
ATOM	165	N	LEU	16	53.574	63.086	10.598	1.00	0.00	N
ATOM	166	HN	LEU	16	54.268	63.213	11.334	1.00	0.00	H
ATOM	167	CA	LEU	16	53.654	61.952	9.712	1.00	0.00	C
ATOM	168	CB	LEU	16	54.795	60.963	10.019	1.00	0.00	C
ATOM	169	CG	LEU	16	56.229	61.388	9.662	1.00	0.00	C
ATOM	170	CD1	LEU	16	56.759	62.520	10.547	1.00	0.00	C
ATOM	171	CD2	LEU	16	57.150	60.160	9.671	1.00	0.00	C
ATOM	172	C	LEU	16	52.444	61.095	9.870	1.00	0.00	C
ATOM	173	O	LEU	16	51.794	60.724	8.893	1.00	0.00	O
ATOM	174	N	TYR	17	52.092	60.774	11.124	1.00	0.00	N
ATOM	175	HN	TYR	17	52.585	61.178	11.921	1.00	0.00	H
ATOM	176	CA	TYR	17	51.014	59.856	11.324	1.00	0.00	C
ATOM	177	CB	TYR	17	50.755	59.493	12.798	1.00	0.00	C
ATOM	178	CG	TYR	17	49.874	58.294	12.739	1.00	0.00	C
ATOM	179	CD1	TYR	17	50.429	57.064	12.464	1.00	0.00	C
ATOM	180	CD2	TYR	17	48.516	58.382	12.945	1.00	0.00	C
ATOM	181	CE1	TYR	17	49.648	55.937	12.394	1.00	0.00	C
ATOM	182	CE2	TYR	17	47.729	57.255	12.876	1.00	0.00	C
ATOM	183	CZ	TYR	17	48.294	56.032	12.600	1.00	0.00	C
ATOM	184	OH	TYR	17	47.489	54.875	12.527	1.00	0.00	O
ATOM	185	HH	TYR	17	47.879	54.030	12.336	1.00	0.00	H
ATOM	186	C	TYR	17	49.787	60.497	10.765	1.00	0.00	C
ATOM	187	O	TYR	17	48.915	59.826	10.215	1.00	0.00	O
ATOM	188	N	MET	18	49.691	61.831	10.901	1.00	0.00	N
ATOM	189	HN	MET	18	50.458	62.347	11.332	1.00	0.00	H
ATOM	190	CA	MET	18	48.531	62.541	10.451	1.00	0.00	C
ATOM	191	CB	MET	18	48.697	64.056	10.660	1.00	0.00	C
ATOM	192	CG	MET	18	47.509	64.899	10.193	1.00	0.00	C
ATOM	193	SD	MET	18	47.722	66.686	10.446	1.00	0.00	S
ATOM	194	CE	MET	18	47.732	66.548	12.256	1.00	0.00	C
ATOM	195	C	MET	18	48.302	62.324	8.982	1.00	0.00	C
ATOM	196	O	MET	18	47.228	61.886	8.572	1.00	0.00	O
ATOM	197	N	VAL	19	49.331	62.549	8.147	1.00	0.00	N
ATOM	198	HN	VAL	19	50.248	62.787	8.526	1.00	0.00	H
ATOM	199	CA	VAL	19	49.149	62.457	6.728	1.00	0.00	C
ATOM	200	CB	VAL	19	50.406	62.749	5.960	1.00	0.00	C
ATOM	201	CG1	VAL	19	50.828	64.199	6.248	1.00	0.00	C
ATOM	202	CG2	VAL	19	51.473	61.704	6.329	1.00	0.00	C
ATOM	203	C	VAL	19	48.736	61.063	6.395	1.00	0.00	C
ATOM	204	O	VAL	19	47.927	60.842	5.494	1.00	0.00	O
ATOM	205	N	VAL	20	49.299	60.080	7.119	1.00	0.00	N
ATOM	206	HN	VAL	20	49.946	60.314	7.872	1.00	0.00	H
ATOM	207	CA	VAL	20	48.998	58.708	6.842	1.00	0.00	C
ATOM	208	CB	VAL	20	49.631	57.763	7.823	1.00	0.00	C
ATOM	209	CG1	VAL	20	49.050	56.360	7.579	1.00	0.00	C
ATOM	210	CG2	VAL	20	51.161	57.834	7.689	1.00	0.00	C
ATOM	211	C	VAL	20	47.526	58.489	6.982	1.00	0.00	C
ATOM	212	O	VAL	20	46.865	58.012	6.060	1.00	0.00	O
ATOM	213	N	GLY	21	46.966	58.897	8.132	1.00	0.00	N
ATOM	214	HN	GLY	21	47.536	59.406	8.808	1.00	0.00	H
ATOM	215	CA	GLY	21	45.589	58.637	8.436	1.00	0.00	C
ATOM	216	C	GLY	21	44.710	59.284	7.420	1.00	0.00	C
ATOM	217	O	GLY	21	43.667	58.739	7.058	1.00	0.00	O
ATOM	218	N	THR	22	45.098	60.476	6.940	1.00	0.00	N
ATOM	219	HN	THR	22	45.977	60.894	7.245	1.00	0.00	H

ATOM	220	CA	THR	22	44.265	61.153	5.996	1.00	0.00	C
ATOM	221	CB	THR	22	44.868	62.434	5.505	1.00	0.00	C
ATOM	222	OG1	THR	22	45.125	63.298	6.602	1.00	0.00	O
ATOM	223	HG1	THR	22	45.738	62.882	7.196	1.00	0.00	H
ATOM	224	CG2	THR	22	43.877	63.107	4.544	1.00	0.00	C
ATOM	225	C	THR	22	44.099	60.247	4.821	1.00	0.00	C
ATOM	226	O	THR	22	42.985	60.022	4.354	1.00	0.00	O
ATOM	227	N	LEU	23	45.202	59.622	4.380	1.00	0.00	N
ATOM	228	HN	LEU	23	46.076	59.723	4.896	1.00	0.00	H
ATOM	229	CA	LEU	23	45.173	58.816	3.198	1.00	0.00	C
ATOM	230	CB	LEU	23	46.526	58.130	2.947	1.00	0.00	C
ATOM	231	CG	LEU	23	46.729	57.485	1.556	1.00	0.00	C
ATOM	232	CD1	LEU	23	48.048	56.700	1.541	1.00	0.00	C
ATOM	233	CD2	LEU	23	45.537	56.652	1.053	1.00	0.00	C
ATOM	234	C	LEU	23	44.160	57.735	3.398	1.00	0.00	C
ATOM	235	O	LEU	23	43.349	57.472	2.510	1.00	0.00	O
ATOM	236	N	ALA	24	44.153	57.110	4.590	1.00	0.00	N
ATOM	237	HN	ALA	24	44.784	57.420	5.329	1.00	0.00	H
ATOM	238	CA	ALA	24	43.263	56.011	4.827	1.00	0.00	C
ATOM	239	CB	ALA	24	43.321	55.492	6.272	1.00	0.00	C
ATOM	240	C	ALA	24	41.876	56.508	4.600	1.00	0.00	C
ATOM	241	O	ALA	24	41.046	55.815	4.013	1.00	0.00	O
ATOM	242	N	ALA	25	41.599	57.748	5.031	1.00	0.00	N
ATOM	243	HN	ALA	25	42.328	58.316	5.463	1.00	0.00	H
ATOM	244	CA	ALA	25	40.273	58.269	4.881	1.00	0.00	C
ATOM	245	CB	ALA	25	40.133	59.703	5.417	1.00	0.00	C
ATOM	246	C	ALA	25	39.923	58.291	3.426	1.00	0.00	C
ATOM	247	O	ALA	25	38.827	57.895	3.029	1.00	0.00	O
ATOM	248	N	ILE	26	40.878	58.706	2.582	1.00	0.00	N
ATOM	249	HN	ILE	26	41.811	58.915	2.938	1.00	0.00	H
ATOM	250	CA	ILE	26	40.602	58.859	1.186	1.00	0.00	C
ATOM	251	CB	ILE	26	41.846	59.299	0.487	1.00	0.00	C
ATOM	252	CG1	ILE	26	42.300	60.634	1.096	1.00	0.00	C
ATOM	253	CG2	ILE	26	41.587	59.342	-1.027	1.00	0.00	C
ATOM	254	CD1	ILE	26	43.775	60.930	0.869	1.00	0.00	C
ATOM	255	C	ILE	26	40.170	57.543	0.605	1.00	0.00	C
ATOM	256	O	ILE	26	39.087	57.433	0.033	1.00	0.00	O
ATOM	257	N	ILE	27	40.956	56.479	0.826	1.00	0.00	N
ATOM	258	HN	ILE	27	41.763	56.572	1.443	1.00	0.00	H
ATOM	259	CA	ILE	27	40.682	55.210	0.209	1.00	0.00	C
ATOM	260	CB	ILE	27	41.679	54.159	0.593	1.00	0.00	C
ATOM	261	CG1	ILE	27	41.595	53.846	2.097	1.00	0.00	C
ATOM	262	CG2	ILE	27	43.060	54.664	0.149	1.00	0.00	C
ATOM	263	CD1	ILE	27	42.371	52.593	2.500	1.00	0.00	C
ATOM	264	C	ILE	27	39.334	54.729	0.648	1.00	0.00	C
ATOM	265	O	ILE	27	38.589	54.145	-0.137	1.00	0.00	O
ATOM	266	N	HIS	28	38.996	54.959	1.928	1.00	0.00	N
ATOM	267	HN	HIS	28	39.645	55.483	2.515	1.00	0.00	H
ATOM	268	CA	HIS	28	37.765	54.503	2.510	1.00	0.00	C
ATOM	269	ND1	HIS	28	36.104	53.077	4.762	1.00	0.00	N
ATOM	270	HD1	HIS	28	36.556	52.301	4.279	1.00	0.00	H
ATOM	271	CG	HIS	28	36.491	54.398	4.736	1.00	0.00	C
ATOM	272	CB	HIS	28	37.685	54.914	3.993	1.00	0.00	C
ATOM	273	NE2	HIS	28	34.661	54.187	6.039	1.00	0.00	N
ATOM	274	HE2	HIS	28	33.878	54.404	6.656	1.00	0.00	H
ATOM	275	CD2	HIS	28	35.598	55.061	5.522	1.00	0.00	C
ATOM	276	CE1	HIS	28	35.006	53.008	5.555	1.00	0.00	C
ATOM	277	C	HIS	28	36.578	55.073	1.774	1.00	0.00	C
ATOM	278	O	HIS	28	35.650	54.339	1.428	1.00	0.00	O
ATOM	279	N	GLY	29	36.581	56.391	1.487	1.00	0.00	N
ATOM	280	HN	GLY	29	37.387	56.965	1.735	1.00	0.00	H
ATOM	281	CA	GLY	29	35.446	56.989	0.831	1.00	0.00	C
ATOM	282	C	GLY	29	35.293	56.345	-0.502	1.00	0.00	C
ATOM	283	O	GLY	29	34.187	56.025	-0.933	1.00	0.00	O
ATOM	284	N	ALA	30	36.425	56.102	-1.177	1.00	0.00	N
ATOM	285	HN	ALA	30	37.319	56.347	-0.753	1.00	0.00	H
ATOM	286	CA	ALA	30	36.410	55.507	-2.478	1.00	0.00	C
ATOM	287	CB	ALA	30	37.821	55.255	-3.035	1.00	0.00	C
ATOM	288	C	ALA	30	35.732	54.180	-2.348	1.00	0.00	C
ATOM	289	O	ALA	30	35.065	53.715	-3.272	1.00	0.00	O
ATOM	290	N	GLY	31	35.889	53.522	-1.187	1.00	0.00	N
ATOM	291	HN	GLY	31	36.406	53.953	-0.421	1.00	0.00	H
ATOM	292	CA	GLY	31	35.327	52.212	-1.028	1.00	0.00	C
ATOM	293	C	GLY	31	33.838	52.247	-1.242	1.00	0.00	C

ATOM	294	O	GLY	31	33.293	51.390	-1.936	1.00	0.00	O
ATOM	295	N	LEU	32	33.129	53.247	-0.687	1.00	0.00	N
ATOM	296	HN	LEU	32	33.607	54.007	-0.204	1.00	0.00	H
ATOM	297	CA	LEU	32	31.690	53.238	-0.779	1.00	0.00	C
ATOM	298	CB	LEU	32	31.016	54.395	-0.018	1.00	0.00	C
ATOM	299	CG	LEU	32	31.081	54.246	1.514	1.00	0.00	C
ATOM	300	CD1	LEU	32	30.304	53.000	1.966	1.00	0.00	C
ATOM	301	CD2	LEU	32	32.524	54.276	2.043	1.00	0.00	C
ATOM	302	C	LEU	32	31.215	53.268	-2.204	1.00	0.00	C
ATOM	303	O	LEU	32	30.329	52.488	-2.557	1.00	0.00	O
ATOM	304	N	PRO	33	31.709	54.122	-3.050	1.00	0.00	N
ATOM	305	CA	PRO	33	31.253	54.091	-4.411	1.00	0.00	C
ATOM	306	CD	PRO	33	32.045	55.471	-2.654	1.00	0.00	C
ATOM	307	CB	PRO	33	31.708	55.407	-5.042	1.00	0.00	C
ATOM	308	CG	PRO	33	32.559	56.093	-3.955	1.00	0.00	C
ATOM	309	C	PRO	33	31.690	52.894	-5.183	1.00	0.00	C
ATOM	310	O	PRO	33	30.952	52.452	-6.063	1.00	0.00	O
ATOM	311	N	LEU	34	32.879	52.347	-4.882	1.00	0.00	N
ATOM	312	HN	LEU	34	33.456	52.721	-4.129	1.00	0.00	H
ATOM	313	CA	LEU	34	33.309	51.221	-5.655	1.00	0.00	C
ATOM	314	CB	LEU	34	34.712	50.703	-5.269	1.00	0.00	C
ATOM	315	CG	LEU	34	35.339	49.721	-6.292	1.00	0.00	C
ATOM	316	CD1	LEU	34	36.717	49.220	-5.829	1.00	0.00	C
ATOM	317	CD2	LEU	34	34.396	48.571	-6.677	1.00	0.00	C
ATOM	318	C	LEU	34	32.295	50.163	-5.362	1.00	0.00	C
ATOM	319	O	LEU	34	31.835	49.446	-6.251	1.00	0.00	O
ATOM	320	N	MET	35	31.856	50.119	-4.092	1.00	0.00	N
ATOM	321	HN	MET	35	32.213	50.802	-3.424	1.00	0.00	H
ATOM	322	CA	MET	35	30.907	49.148	-3.647	1.00	0.00	C
ATOM	323	CB	MET	35	30.446	49.410	-2.206	1.00	0.00	C
ATOM	324	CG	MET	35	31.502	49.079	-1.157	1.00	0.00	C
ATOM	325	SD	MET	35	31.582	47.313	-0.733	1.00	0.00	S
ATOM	326	CE	MET	35	30.392	47.408	0.637	1.00	0.00	C
ATOM	327	C	MET	35	29.697	49.282	-4.513	1.00	0.00	C
ATOM	328	O	MET	35	29.085	48.283	-4.888	1.00	0.00	O
ATOM	329	N	MET	36	29.304	50.522	-4.856	1.00	0.00	N
ATOM	330	HN	MET	36	29.807	51.346	-4.526	1.00	0.00	H
ATOM	331	CA	MET	36	28.152	50.644	-5.702	1.00	0.00	C
ATOM	332	CB	MET	36	27.731	52.094	-5.965	1.00	0.00	C
ATOM	333	CG	MET	36	26.711	52.648	-4.965	1.00	0.00	C
ATOM	334	SD	MET	36	27.247	52.777	-3.236	1.00	0.00	S
ATOM	335	CE	MET	36	26.840	51.058	-2.811	1.00	0.00	C
ATOM	336	C	MET	36	28.383	49.960	-7.017	1.00	0.00	C
ATOM	337	O	MET	36	27.584	49.112	-7.412	1.00	0.00	O
ATOM	338	N	LEU	37	29.528	50.220	-7.680	1.00	0.00	N
ATOM	339	HN	LEU	37	30.239	50.813	-7.251	1.00	0.00	H
ATOM	340	CA	LEU	37	29.753	49.666	-8.990	1.00	0.00	C
ATOM	341	CB	LEU	37	31.161	49.948	-9.540	1.00	0.00	C
ATOM	342	CG	LEU	37	31.503	49.107	-10.790	1.00	0.00	C
ATOM	343	CD1	LEU	37	30.555	49.404	-11.960	1.00	0.00	C
ATOM	344	CD2	LEU	37	32.987	49.241	-11.167	1.00	0.00	C
ATOM	345	C	LEU	37	29.641	48.176	-8.959	1.00	0.00	C
ATOM	346	O	LEU	37	28.972	47.589	-9.810	1.00	0.00	O
ATOM	347	N	VAL	38	30.260	47.523	-7.962	1.00	0.00	N
ATOM	348	HN	VAL	38	30.728	48.044	-7.221	1.00	0.00	H
ATOM	349	CA	VAL	38	30.259	46.090	-7.945	1.00	0.00	C
ATOM	350	CB	VAL	38	30.991	45.499	-6.775	1.00	0.00	C
ATOM	351	CG1	VAL	38	32.452	45.976	-6.830	1.00	0.00	C
ATOM	352	CG2	VAL	38	30.247	45.863	-5.481	1.00	0.00	C
ATOM	353	C	VAL	38	28.846	45.634	-7.866	1.00	0.00	C
ATOM	354	O	VAL	38	28.475	44.637	-8.482	1.00	0.00	O
ATOM	355	N	PHE	39	28.012	46.383	-7.126	1.00	0.00	N
ATOM	356	HN	PHE	39	28.362	47.222	-6.664	1.00	0.00	H
ATOM	357	CA	PHE	39	26.638	46.015	-6.979	1.00	0.00	C
ATOM	358	CB	PHE	39	25.844	47.048	-6.152	1.00	0.00	C
ATOM	359	CG	PHE	39	24.377	46.768	-6.208	1.00	0.00	C
ATOM	360	CD1	PHE	39	23.806	45.771	-5.450	1.00	0.00	C
ATOM	361	CD2	PHE	39	23.567	47.512	-7.036	1.00	0.00	C
ATOM	362	CE1	PHE	39	22.452	45.530	-5.515	1.00	0.00	C
ATOM	363	CE2	PHE	39	22.214	47.279	-7.105	1.00	0.00	C
ATOM	364	CZ	PHE	39	21.653	46.284	-6.341	1.00	0.00	C
ATOM	365	C	PHE	39	26.077	45.942	-8.361	1.00	0.00	C
ATOM	366	O	PHE	39	25.263	45.071	-8.658	1.00	0.00	O
ATOM	367	N	GLY	40	26.491	46.858	-9.252	1.00	0.00	N

ATOM	368	HN	GLY	40	27.176	47.564	-8.982	1.00	0.00	H
ATOM	369	CA	GLY	40	25.963	46.836	-10.586	1.00	0.00	C
ATOM	370	C	GLY	40	26.353	45.623	-11.379	1.00	0.00	C
ATOM	371	O	GLY	40	25.497	44.966	-11.965	1.00	0.00	O
ATOM	372	N	GLU	41	27.648	45.263	-11.402	1.00	0.00	N
ATOM	373	HN	GLU	41	28.323	45.748	-10.811	1.00	0.00	H
ATOM	374	CA	GLU	41	28.082	44.192	-12.261	1.00	0.00	C
ATOM	375	CB	GLU	41	29.601	43.953	-12.210	1.00	0.00	C
ATOM	376	CG	GLU	41	30.083	42.864	-13.174	1.00	0.00	C
ATOM	377	CD	GLU	41	30.089	43.407	-14.600	1.00	0.00	C
ATOM	378	OE1	GLU	41	30.512	44.578	-14.795	1.00	0.00	O
ATOM	379	OE2	GLU	41	29.685	42.645	-15.519	1.00	0.00	O
ATOM	380	C	GLU	41	27.410	42.928	-11.842	1.00	0.00	C
ATOM	381	O	GLU	41	27.049	42.090	-12.669	1.00	0.00	O
ATOM	382	N	MET	42	27.244	42.748	-10.523	1.00	0.00	N
ATOM	383	HN	MET	42	27.575	43.450	-9.861	1.00	0.00	H
ATOM	384	CA	MET	42	26.599	41.563	-10.056	1.00	0.00	C
ATOM	385	CB	MET	42	26.581	41.448	-8.519	1.00	0.00	C
ATOM	386	CG	MET	42	25.737	42.507	-7.806	1.00	0.00	C
ATOM	387	SD	MET	42	25.710	42.336	-5.996	1.00	0.00	S
ATOM	388	CE	MET	42	27.442	42.841	-5.792	1.00	0.00	C
ATOM	389	C	MET	42	25.192	41.609	-10.557	1.00	0.00	C
ATOM	390	O	MET	42	24.620	40.598	-10.958	1.00	0.00	O
ATOM	391	N	THR	43	24.600	42.815	-10.556	1.00	0.00	N
ATOM	392	HN	THR	43	25.135	43.625	-10.244	1.00	0.00	H
ATOM	393	CA	THR	43	23.243	43.004	-10.978	1.00	0.00	C
ATOM	394	CB	THR	43	22.780	44.423	-10.826	1.00	0.00	C
ATOM	395	OG1	THR	43	22.832	44.816	-9.464	1.00	0.00	O
ATOM	396	HG1	THR	43	22.539	45.714	-9.368	1.00	0.00	H
ATOM	397	CG2	THR	43	21.342	44.540	-11.354	1.00	0.00	C
ATOM	398	C	THR	43	23.094	42.668	-12.431	1.00	0.00	C
ATOM	399	O	THR	43	22.087	42.083	-12.827	1.00	0.00	O
ATOM	400	N	ASP	44	24.070	43.054	-13.277	1.00	0.00	N
ATOM	401	HN	ASP	44	24.903	43.519	-12.917	1.00	0.00	H
ATOM	402	CA	ASP	44	23.935	42.810	-14.688	1.00	0.00	C
ATOM	403	CB	ASP	44	25.054	43.431	-15.541	1.00	0.00	C
ATOM	404	CG	ASP	44	24.721	44.898	-15.772	1.00	0.00	C
ATOM	405	OD1	ASP	44	23.513	45.254	-15.733	1.00	0.00	O
ATOM	406	OD2	ASP	44	25.676	45.681	-16.013	1.00	0.00	O
ATOM	407	C	ASP	44	23.902	41.343	-14.979	1.00	0.00	C
ATOM	408	O	ASP	44	23.056	40.871	-15.739	1.00	0.00	O
ATOM	409	N	ILE	45	24.794	40.571	-14.343	1.00	0.00	N
ATOM	410	HN	ILE	45	25.431	40.988	-13.664	1.00	0.00	H
ATOM	411	CA	ILE	45	24.861	39.165	-14.608	1.00	0.00	C
ATOM	412	CB	ILE	45	25.924	38.475	-13.792	1.00	0.00	C
ATOM	413	CG1	ILE	45	26.286	37.125	-14.421	1.00	0.00	C
ATOM	414	CG2	ILE	45	25.458	38.377	-12.331	1.00	0.00	C
ATOM	415	CD1	ILE	45	27.047	37.280	-15.737	1.00	0.00	C
ATOM	416	C	ILE	45	23.512	38.620	-14.245	1.00	0.00	C
ATOM	417	O	ILE	45	22.994	37.694	-14.873	1.00	0.00	O
ATOM	418	N	PHE	46	22.911	39.222	-13.202	1.00	0.00	N
ATOM	419	HN	PHE	46	23.396	40.006	-12.766	1.00	0.00	H
ATOM	420	CA	PHE	46	21.640	38.843	-12.658	1.00	0.00	C
ATOM	421	CB	PHE	46	21.278	39.669	-11.407	1.00	0.00	C
ATOM	422	CG	PHE	46	20.131	39.019	-10.706	1.00	0.00	C
ATOM	423	CD1	PHE	46	20.353	37.957	-9.859	1.00	0.00	C
ATOM	424	CD2	PHE	46	18.841	39.467	-10.878	1.00	0.00	C
ATOM	425	CE1	PHE	46	19.311	37.349	-9.200	1.00	0.00	C
ATOM	426	CE2	PHE	46	17.793	38.864	-10.222	1.00	0.00	C
ATOM	427	CZ	PHE	46	18.027	37.801	-9.383	1.00	0.00	C
ATOM	428	C	PHE	46	20.562	39.051	-13.685	1.00	0.00	C
ATOM	429	O	PHE	46	19.611	38.272	-13.771	1.00	0.00	O
ATOM	430	N	ALA	47	20.651	40.152	-14.453	1.00	0.00	N
ATOM	431	HN	ALA	47	21.432	40.794	-14.317	1.00	0.00	H
ATOM	432	CA	ALA	47	19.670	40.443	-15.460	1.00	0.00	C
ATOM	433	CB	ALA	47	19.898	41.810	-16.130	1.00	0.00	C
ATOM	434	C	ALA	47	19.723	39.411	-16.542	1.00	0.00	C
ATOM	435	O	ALA	47	18.687	38.911	-16.972	1.00	0.00	O
ATOM	436	N	ASN	48	20.942	39.044	-16.987	1.00	0.00	N
ATOM	437	HN	ASN	48	21.768	39.420	-16.521	1.00	0.00	H
ATOM	438	CA	ASN	48	21.122	38.141	-18.095	1.00	0.00	C
ATOM	439	CB	ASN	48	22.610	37.894	-18.411	1.00	0.00	C
ATOM	440	CG	ASN	48	22.715	37.177	-19.750	1.00	0.00	C
ATOM	441	OD1	ASN	48	23.157	36.032	-19.831	1.00	0.00	O

ATOM	442	ND2	ASN	48	22.295	37.877	-20.837	1.00	0.00	N
ATOM	443	1HD2	ASN	48	22.365	37.397	-21.734	1.00	0.00	H
ATOM	444	2HD2	ASN	48	21.928	38.826	-20.770	1.00	0.00	H
ATOM	445	C	ASN	48	20.504	36.821	-17.759	1.00	0.00	C
ATOM	446	O	ASN	48	19.811	36.223	-18.583	1.00	0.00	O
ATOM	447	N	ALA	49	20.738	36.329	-16.529	1.00	0.00	N
ATOM	448	HN	ALA	49	21.312	36.860	-15.875	1.00	0.00	H
ATOM	449	CA	ALA	49	20.190	35.067	-16.127	1.00	0.00	C
ATOM	450	CB	ALA	49	20.598	34.653	-14.703	1.00	0.00	C
ATOM	451	C	ALA	49	18.701	35.181	-16.133	1.00	0.00	C
ATOM	452	O	ALA	49	17.989	34.258	-16.523	1.00	0.00	O
ATOM	453	N	GLY	50	18.188	36.325	-15.664	1.00	0.00	N
ATOM	454	HN	GLY	50	18.822	37.046	-15.320	1.00	0.00	H
ATOM	455	CA	GLY	50	16.776	36.568	-15.630	1.00	0.00	C
ATOM	456	C	GLY	50	16.258	36.662	-17.038	1.00	0.00	C
ATOM	457	O	GLY	50	15.084	36.419	-17.301	1.00	0.00	O
ATOM	458	N	ASN	51	17.104	37.121	-17.973	1.00	0.00	N
ATOM	459	HN	ASN	51	18.057	37.353	-17.692	1.00	0.00	H
ATOM	460	CA	ASN	51	16.736	37.302	-19.347	1.00	0.00	C
ATOM	461	CB	ASN	51	17.874	37.941	-20.163	1.00	0.00	C
ATOM	462	CG	ASN	51	17.432	38.037	-21.613	1.00	0.00	C
ATOM	463	OD1	ASN	51	17.404	37.038	-22.331	1.00	0.00	O
ATOM	464	ND2	ASN	51	17.073	39.270	-22.059	1.00	0.00	N
ATOM	465	1HD2	ASN	51	17.096	40.098	-21.464	1.00	0.00	H
ATOM	466	2HD2	ASN	51	16.776	39.334	-23.033	1.00	0.00	H
ATOM	467	C	ASN	51	16.431	35.975	-19.966	1.00	0.00	C
ATOM	468	O	ASN	51	15.494	35.840	-20.746	1.00	0.00	O
ATOM	469	N	LEU	52	17.271	34.961	-19.725	1.00	0.00	N
ATOM	470	HN	LEU	52	18.130	35.104	-19.194	1.00	0.00	H
ATOM	471	CA	LEU	52	16.926	33.670	-20.235	1.00	0.00	C
ATOM	472	CB	LEU	52	18.094	32.669	-20.201	1.00	0.00	C
ATOM	473	CG	LEU	52	19.241	32.990	-21.175	1.00	0.00	C
ATOM	474	CD1	LEU	52	20.361	31.940	-21.079	1.00	0.00	C
ATOM	475	CD2	LEU	52	18.716	33.159	-22.607	1.00	0.00	C
ATOM	476	C	LEU	52	15.836	33.061	-19.393	1.00	0.00	C
ATOM	477	O	LEU	52	14.957	32.359	-19.891	1.00	0.00	O
ATOM	478	N	GLU	53	15.971	33.227	-18.062	1.00	0.00	N
ATOM	479	HN	GLU	53	16.719	33.840	-17.738	1.00	0.00	H
ATOM	480	CA	GLU	53	15.139	32.605	-17.060	1.00	0.00	C
ATOM	481	CB	GLU	53	15.836	32.592	-15.694	1.00	0.00	C
ATOM	482	CG	GLU	53	15.007	31.938	-14.590	1.00	0.00	C
ATOM	483	CD	GLU	53	15.484	32.501	-13.259	1.00	0.00	C
ATOM	484	OE1	GLU	53	15.159	33.686	-12.975	1.00	0.00	O
ATOM	485	OE2	GLU	53	16.170	31.761	-12.508	1.00	0.00	O
ATOM	486	C	GLU	53	13.786	33.162	-16.730	1.00	0.00	C
ATOM	487	O	GLU	53	12.793	32.451	-16.861	1.00	0.00	O
ATOM	488	N	ASP	54	13.740	34.446	-16.295	1.00	0.00	N
ATOM	489	HN	ASP	54	14.598	34.986	-16.408	1.00	0.00	H
ATOM	490	CA	ASP	54	12.625	35.147	-15.690	1.00	0.00	C
ATOM	491	CB	ASP	54	11.798	36.009	-16.674	1.00	0.00	C
ATOM	492	CG	ASP	54	10.929	37.026	-15.937	1.00	0.00	C
ATOM	493	OD1	ASP	54	11.049	37.140	-14.690	1.00	0.00	O
ATOM	494	OD2	ASP	54	10.128	37.712	-16.626	1.00	0.00	O
ATOM	495	C	ASP	54	11.744	34.159	-14.979	1.00	0.00	C
ATOM	496	O	ASP	54	12.203	33.120	-14.504	1.00	0.00	O
ATOM	497	N	LEU	55	10.459	34.501	-14.770	1.00	0.00	N
ATOM	498	HN	LEU	55	10.111	35.440	-14.965	1.00	0.00	H
ATOM	499	CA	LEU	55	9.612	33.469	-14.258	1.00	0.00	C
ATOM	500	CB	LEU	55	8.150	33.911	-14.089	1.00	0.00	C
ATOM	501	CG	LEU	55	7.233	32.804	-13.540	1.00	0.00	C
ATOM	502	CD1	LEU	55	7.642	32.393	-12.116	1.00	0.00	C
ATOM	503	CD2	LEU	55	5.754	33.209	-13.641	1.00	0.00	C
ATOM	504	C	LEU	55	9.674	32.501	-15.376	1.00	0.00	C
ATOM	505	O	LEU	55	9.796	31.289	-15.204	1.00	0.00	O
ATOM	506	N	MET	56	9.574	33.077	-16.583	1.00	0.00	N
ATOM	507	HN	MET	56	9.306	34.061	-16.621	1.00	0.00	H
ATOM	508	CA	MET	56	9.817	32.405	-17.815	1.00	0.00	C
ATOM	509	CB	MET	56	8.540	31.904	-18.509	1.00	0.00	C
ATOM	510	CG	MET	56	7.814	30.780	-17.772	1.00	0.00	C
ATOM	511	SD	MET	56	6.291	30.213	-18.589	1.00	0.00	S
ATOM	512	CE	MET	56	5.235	31.554	-17.967	1.00	0.00	C
ATOM	513	C	MET	56	10.300	33.509	-18.679	1.00	0.00	C
ATOM	514	O	MET	56	9.504	34.038	-19.452	1.00	0.00	O
ATOM	515	N	SER	57	11.575	33.944	-18.557	1.00	0.00	N

ATOM	516	HN	SER	57	12.245	33.556	-17.893	1.00	0.00	H
ATOM	517	CA	SER	57	11.875	34.998	-19.454	1.00	0.00	C
ATOM	518	CB	SER	57	13.219	35.684	-19.240	1.00	0.00	C
ATOM	519	OG	SER	57	13.245	36.846	-20.056	1.00	0.00	O
ATOM	520	HG	SER	57	14.083	37.274	-19.923	1.00	0.00	H
ATOM	521	C	SER	57	11.858	34.388	-20.812	1.00	0.00	C
ATOM	522	O	SER	57	10.868	34.418	-21.541	1.00	0.00	O
ATOM	523	N	ASN	58	12.980	33.766	-21.185	1.00	0.00	N
ATOM	524	HN	ASN	58	13.833	33.813	-20.628	1.00	0.00	H
ATOM	525	CA	ASN	58	12.918	33.036	-22.401	1.00	0.00	C
ATOM	526	CB	ASN	58	13.845	33.547	-23.515	1.00	0.00	C
ATOM	527	CG	ASN	58	13.617	32.652	-24.727	1.00	0.00	C
ATOM	528	OD1	ASN	58	12.568	32.708	-25.366	1.00	0.00	O
ATOM	529	ND2	ASN	58	14.624	31.797	-25.052	1.00	0.00	N
ATOM	530	1HD2	ASN	58	15.494	31.751	-24.522	1.00	0.00	H
ATOM	531	2HD2	ASN	58	14.471	31.198	-25.863	1.00	0.00	H
ATOM	532	C	ASN	58	13.389	31.683	-22.035	1.00	0.00	C
ATOM	533	O	ASN	58	14.528	31.335	-22.324	1.00	0.00	O
ATOM	534	N	ILE	59	12.507	30.892	-21.399	1.00	0.00	N
ATOM	535	HN	ILE	59	11.592	31.282	-21.173	1.00	0.00	H
ATOM	536	CA	ILE	59	12.770	29.539	-21.020	1.00	0.00	C
ATOM	537	CB	ILE	59	12.430	29.184	-19.588	1.00	0.00	C
ATOM	538	CG1	ILE	59	13.171	30.096	-18.608	1.00	0.00	C
ATOM	539	CG2	ILE	59	12.819	27.717	-19.305	1.00	0.00	C
ATOM	540	CD1	ILE	59	12.830	29.741	-17.162	1.00	0.00	C
ATOM	541	C	ILE	59	11.840	28.800	-21.932	1.00	0.00	C
ATOM	542	O	ILE	59	11.927	28.984	-23.145	1.00	0.00	O
ATOM	543	N	THR	60	10.985	27.911	-21.391	1.00	0.00	N
ATOM	544	HN	THR	60	11.009	27.782	-20.379	1.00	0.00	H
ATOM	545	CA	THR	60	10.046	27.136	-22.142	1.00	0.00	C
ATOM	546	CB	THR	60	8.857	27.912	-22.652	1.00	0.00	C
ATOM	547	OG1	THR	60	7.863	27.013	-23.116	1.00	0.00	O
ATOM	548	HG1	THR	60	7.604	26.432	-22.410	1.00	0.00	H
ATOM	549	CG2	THR	60	9.275	28.851	-23.792	1.00	0.00	C
ATOM	550	C	THR	60	10.794	26.496	-23.264	1.00	0.00	C
ATOM	551	O	THR	60	10.240	26.242	-24.332	1.00	0.00	O
ATOM	552	N	ASN	61	12.091	26.206	-23.025	1.00	0.00	N
ATOM	553	HN	ASN	61	12.491	26.432	-22.114	1.00	0.00	H
ATOM	554	CA	ASN	61	12.922	25.588	-24.018	1.00	0.00	C
ATOM	555	CB	ASN	61	13.645	26.565	-24.960	1.00	0.00	C
ATOM	556	CG	ASN	61	12.641	26.962	-26.033	1.00	0.00	C
ATOM	557	OD1	ASN	61	11.978	26.106	-26.618	1.00	0.00	O
ATOM	558	ND2	ASN	61	12.522	28.289	-26.299	1.00	0.00	N
ATOM	559	1HD2	ASN	61	13.072	28.998	-25.814	1.00	0.00	H
ATOM	560	2HD2	ASN	61	11.849	28.555	-27.018	1.00	0.00	H
ATOM	561	C	ASN	61	13.952	24.745	-23.336	1.00	0.00	C
ATOM	562	O	ASN	61	13.671	24.102	-22.325	1.00	0.00	O
ATOM	563	N	ARG	62	15.180	24.743	-23.900	1.00	0.00	N
ATOM	564	HN	ARG	62	15.341	25.378	-24.681	1.00	0.00	H
ATOM	565	CA	ARG	62	16.277	23.913	-23.482	1.00	0.00	C
ATOM	566	CB	ARG	62	17.641	24.457	-23.950	1.00	0.00	C
ATOM	567	CG	ARG	62	17.680	25.206	-25.291	1.00	0.00	C
ATOM	568	CD	ARG	62	17.161	26.650	-25.196	1.00	0.00	C
ATOM	569	NE	ARG	62	17.788	27.446	-26.294	1.00	0.00	N
ATOM	570	HE	ARG	62	18.514	27.024	-26.873	1.00	0.00	H
ATOM	571	CZ	ARG	62	17.398	28.733	-26.530	1.00	0.00	C
ATOM	572	NH1	ARG	62	16.336	29.265	-25.856	1.00	0.00	N
ATOM	573	1HH1	ARG	62	16.045	30.226	-26.032	1.00	0.00	H
ATOM	574	2HH1	ARG	62	15.834	28.698	-25.173	1.00	0.00	H
ATOM	575	NH2	ARG	62	18.071	29.493	-27.445	1.00	0.00	N
ATOM	576	1HH2	ARG	62	17.780	30.454	-27.621	1.00	0.00	H
ATOM	577	2HH2	ARG	62	18.864	29.096	-27.948	1.00	0.00	H
ATOM	578	C	ARG	62	16.381	23.997	-21.984	1.00	0.00	C
ATOM	579	O	ARG	62	16.920	24.960	-21.449	1.00	0.00	O
ATOM	580	N	SER	63	15.888	22.969	-21.266	1.00	0.00	N
ATOM	581	HN	SER	63	15.481	22.174	-21.759	1.00	0.00	H
ATOM	582	CA	SER	63	15.915	22.953	-19.828	1.00	0.00	C
ATOM	583	CB	SER	63	15.162	21.741	-19.257	1.00	0.00	C
ATOM	584	OG	SER	63	15.210	21.755	-17.838	1.00	0.00	O
ATOM	585	HG	SER	63	14.745	21.006	-17.485	1.00	0.00	H
ATOM	586	C	SER	63	17.322	22.847	-19.329	1.00	0.00	C
ATOM	587	O	SER	63	17.761	23.626	-18.482	1.00	0.00	O
ATOM	588	N	ASP	64	18.074	21.875	-19.872	1.00	0.00	N
ATOM	589	HN	ASP	64	17.697	21.332	-20.648	1.00	0.00	H

ATOM	590	CA	ASP	64	19.392	21.580	-19.391	1.00	0.00	C
ATOM	591	CB	ASP	64	20.017	20.331	-20.043	1.00	0.00	C
ATOM	592	CG	ASP	64	20.101	20.515	-21.551	1.00	0.00	C
ATOM	593	OD1	ASP	64	19.025	20.648	-22.193	1.00	0.00	O
ATOM	594	OD2	ASP	64	21.244	20.527	-22.083	1.00	0.00	O
ATOM	595	C	ASP	64	20.290	22.751	-19.603	1.00	0.00	C
ATOM	596	O	ASP	64	21.161	23.030	-18.781	1.00	0.00	O
ATOM	597	N	ILE	65	20.091	23.480	-20.709	1.00	0.00	N
ATOM	598	HN	ILE	65	19.336	23.226	-21.346	1.00	0.00	H
ATOM	599	CA	ILE	65	20.917	24.607	-21.013	1.00	0.00	C
ATOM	600	CB	ILE	65	20.569	25.257	-22.325	1.00	0.00	C
ATOM	601	CG1	ILE	65	21.753	26.076	-22.859	1.00	0.00	C
ATOM	602	CG2	ILE	65	19.310	26.107	-22.120	1.00	0.00	C
ATOM	603	CD1	ILE	65	22.916	25.208	-23.336	1.00	0.00	C
ATOM	604	C	ILE	65	20.716	25.607	-19.918	1.00	0.00	C
ATOM	605	O	ILE	65	21.592	26.421	-19.644	1.00	0.00	O
ATOM	606	N	ASN	66	19.504	25.641	-19.335	1.00	0.00	N
ATOM	607	HN	ASN	66	18.780	25.000	-19.660	1.00	0.00	H
ATOM	608	CA	ASN	66	19.199	26.552	-18.269	1.00	0.00	C
ATOM	609	CB	ASN	66	17.715	26.542	-17.890	1.00	0.00	C
ATOM	610	CG	ASN	66	16.933	27.164	-19.030	1.00	0.00	C
ATOM	611	OD1	ASN	66	17.488	27.603	-20.036	1.00	0.00	O
ATOM	612	ND2	ASN	66	15.591	27.218	-18.850	1.00	0.00	N
ATOM	613	1HD2	ASN	66	15.131	26.854	-18.016	1.00	0.00	H
ATOM	614	2HD2	ASN	66	15.065	27.637	-19.617	1.00	0.00	H
ATOM	615	C	ASN	66	19.948	26.168	-17.037	1.00	0.00	C
ATOM	616	O	ASN	66	20.485	27.017	-16.331	1.00	0.00	O
ATOM	617	N	ASP	67	19.998	24.865	-16.724	1.00	0.00	N
ATOM	618	HN	ASP	67	19.578	24.157	-17.326	1.00	0.00	H
ATOM	619	CA	ASP	67	20.666	24.511	-15.510	1.00	0.00	C
ATOM	620	CB	ASP	67	20.499	23.024	-15.123	1.00	0.00	C
ATOM	621	CG	ASP	67	21.146	22.109	-16.150	1.00	0.00	C
ATOM	622	OD1	ASP	67	22.402	22.116	-16.251	1.00	0.00	O
ATOM	623	OD2	ASP	67	20.386	21.375	-16.836	1.00	0.00	O
ATOM	624	C	ASP	67	22.109	24.867	-15.656	1.00	0.00	C
ATOM	625	O	ASP	67	22.748	25.326	-14.711	1.00	0.00	O
ATOM	626	N	THR	68	22.674	24.652	-16.856	1.00	0.00	N
ATOM	627	HN	THR	68	22.119	24.269	-17.621	1.00	0.00	H
ATOM	628	CA	THR	68	24.059	24.963	-17.058	1.00	0.00	C
ATOM	629	CB	THR	68	24.616	24.355	-18.317	1.00	0.00	C
ATOM	630	OG1	THR	68	25.995	24.669	-18.443	1.00	0.00	O
ATOM	631	HG1	THR	68	26.475	24.347	-17.689	1.00	0.00	H
ATOM	632	CG2	THR	68	23.842	24.874	-19.533	1.00	0.00	C
ATOM	633	C	THR	68	24.306	26.443	-17.063	1.00	0.00	C
ATOM	634	O	THR	68	25.230	26.918	-16.405	1.00	0.00	O
ATOM	635	N	GLY	69	23.478	27.227	-17.783	1.00	0.00	N
ATOM	636	HN	GLY	69	22.669	26.822	-18.254	1.00	0.00	H
ATOM	637	CA	GLY	69	23.742	28.636	-17.882	1.00	0.00	C
ATOM	638	C	GLY	69	23.640	29.259	-16.528	1.00	0.00	C
ATOM	639	O	GLY	69	24.447	30.115	-16.165	1.00	0.00	O
ATOM	640	N	PHE	70	22.607	28.865	-15.762	1.00	0.00	N
ATOM	641	HN	PHE	70	21.984	28.136	-16.108	1.00	0.00	H
ATOM	642	CA	PHE	70	22.357	29.439	-14.475	1.00	0.00	C
ATOM	643	CB	PHE	70	20.952	29.125	-13.954	1.00	0.00	C
ATOM	644	CG	PHE	70	20.087	29.993	-14.795	1.00	0.00	C
ATOM	645	CD1	PHE	70	19.788	29.635	-16.087	1.00	0.00	C
ATOM	646	CD2	PHE	70	19.593	31.174	-14.299	1.00	0.00	C
ATOM	647	CE1	PHE	70	19.002	30.419	-16.885	1.00	0.00	C
ATOM	648	CE2	PHE	70	18.802	31.973	-15.087	1.00	0.00	C
ATOM	649	CZ	PHE	70	18.513	31.589	-16.375	1.00	0.00	C
ATOM	650	C	PHE	70	23.369	29.082	-13.436	1.00	0.00	C
ATOM	651	O	PHE	70	23.881	29.965	-12.753	1.00	0.00	O
ATOM	652	N	PHE	71	23.723	27.794	-13.301	1.00	0.00	N
ATOM	653	HN	PHE	71	23.354	27.088	-13.938	1.00	0.00	H
ATOM	654	CA	PHE	71	24.626	27.424	-12.250	1.00	0.00	C
ATOM	655	CB	PHE	71	24.914	25.915	-12.183	1.00	0.00	C
ATOM	656	CG	PHE	71	25.158	25.584	-10.749	1.00	0.00	C
ATOM	657	CD1	PHE	71	26.319	25.934	-10.102	1.00	0.00	C
ATOM	658	CD2	PHE	71	24.190	24.902	-10.048	1.00	0.00	C
ATOM	659	CE1	PHE	71	26.492	25.603	-8.777	1.00	0.00	C
ATOM	660	CE2	PHE	71	24.362	24.571	-8.726	1.00	0.00	C
ATOM	661	CZ	PHE	71	25.521	24.924	-8.084	1.00	0.00	C
ATOM	662	C	PHE	71	25.894	28.129	-12.591	1.00	0.00	C
ATOM	663	O	PHE	71	26.697	28.470	-11.724	1.00	0.00	O

ATOM	664	N	MET	72	26.104	28.336	-13.902	1.00	0.00	N
ATOM	665	HN	MET	72	25.409	28.025	-14.581	1.00	0.00	H
ATOM	666	CA	MET	72	27.293	28.988	-14.354	1.00	0.00	C
ATOM	667	CB	MET	72	27.311	29.157	-15.883	1.00	0.00	C
ATOM	668	CG	MET	72	28.585	29.808	-16.425	1.00	0.00	C
ATOM	669	SD	MET	72	28.556	30.163	-18.210	1.00	0.00	S
ATOM	670	CE	MET	72	28.661	28.432	-18.748	1.00	0.00	C
ATOM	671	C	MET	72	27.383	30.370	-13.776	1.00	0.00	C
ATOM	672	O	MET	72	28.337	30.684	-13.068	1.00	0.00	O
ATOM	673	N	ASN	73	26.359	31.216	-14.001	1.00	0.00	N
ATOM	674	HN	ASN	73	25.530	30.889	-14.498	1.00	0.00	H
ATOM	675	CA	ASN	73	26.429	32.576	-13.544	1.00	0.00	C
ATOM	676	CB	ASN	73	25.291	33.474	-14.065	1.00	0.00	C
ATOM	677	CG	ASN	73	23.994	33.076	-13.378	1.00	0.00	C
ATOM	678	OD1	ASN	73	23.741	33.466	-12.239	1.00	0.00	O
ATOM	679	ND2	ASN	73	23.140	32.291	-14.086	1.00	0.00	N
ATOM	680	1HD2	ASN	73	23.350	31.968	-15.030	1.00	0.00	H
ATOM	681	2HD2	ASN	73	22.270	32.024	-13.625	1.00	0.00	H
ATOM	682	C	ASN	73	26.347	32.575	-12.057	1.00	0.00	C
ATOM	683	O	ASN	73	26.908	33.448	-11.395	1.00	0.00	O
ATOM	684	N	LEU	74	25.606	31.608	-11.488	1.00	0.00	N
ATOM	685	HN	LEU	74	25.167	30.883	-12.055	1.00	0.00	H
ATOM	686	CA	LEU	74	25.450	31.623	-10.066	1.00	0.00	C
ATOM	687	CB	LEU	74	24.645	30.446	-9.527	1.00	0.00	C
ATOM	688	CG	LEU	74	24.580	30.452	-7.991	1.00	0.00	C
ATOM	689	CD1	LEU	74	23.908	31.729	-7.463	1.00	0.00	C
ATOM	690	CD2	LEU	74	23.935	29.165	-7.459	1.00	0.00	C
ATOM	691	C	LEU	74	26.768	31.485	-9.397	1.00	0.00	C
ATOM	692	O	LEU	74	27.199	32.361	-8.651	1.00	0.00	O
ATOM	693	N	GLU	75	27.475	30.387	-9.689	1.00	0.00	N
ATOM	694	HN	GLU	75	27.141	29.718	-10.382	1.00	0.00	H
ATOM	695	CA	GLU	75	28.708	30.179	-9.004	1.00	0.00	C
ATOM	696	CB	GLU	75	29.365	28.837	-9.336	1.00	0.00	C
ATOM	697	CG	GLU	75	28.587	27.663	-8.758	1.00	0.00	C
ATOM	698	CD	GLU	75	28.709	27.696	-7.239	1.00	0.00	C
ATOM	699	OE1	GLU	75	29.089	28.763	-6.687	1.00	0.00	O
ATOM	700	OE2	GLU	75	28.418	26.645	-6.606	1.00	0.00	O
ATOM	701	C	GLU	75	29.655	31.250	-9.406	1.00	0.00	C
ATOM	702	O	GLU	75	30.401	31.766	-8.576	1.00	0.00	O
ATOM	703	N	GLU	76	29.637	31.630	-10.697	1.00	0.00	N
ATOM	704	HN	GLU	76	28.940	31.256	-11.341	1.00	0.00	H
ATOM	705	CA	GLU	76	30.619	32.572	-11.148	1.00	0.00	C
ATOM	706	CB	GLU	76	30.614	32.793	-12.678	1.00	0.00	C
ATOM	707	CG	GLU	76	29.287	33.246	-13.290	1.00	0.00	C
ATOM	708	CD	GLU	76	29.185	34.760	-13.229	1.00	0.00	C
ATOM	709	OE1	GLU	76	30.217	35.438	-13.479	1.00	0.00	O
ATOM	710	OE2	GLU	76	28.065	35.258	-12.940	1.00	0.00	O
ATOM	711	C	GLU	76	30.496	33.892	-10.448	1.00	0.00	C
ATOM	712	O	GLU	76	31.481	34.404	-9.917	1.00	0.00	O
ATOM	713	N	ASP	77	29.290	34.479	-10.386	1.00	0.00	N
ATOM	714	HN	ASP	77	28.471	34.032	-10.799	1.00	0.00	H
ATOM	715	CA	ASP	77	29.177	35.748	-9.726	1.00	0.00	C
ATOM	716	CB	ASP	77	27.802	36.417	-9.908	1.00	0.00	C
ATOM	717	CG	ASP	77	27.960	37.916	-9.661	1.00	0.00	C
ATOM	718	OD1	ASP	77	28.531	38.300	-8.607	1.00	0.00	O
ATOM	719	OD2	ASP	77	27.506	38.703	-10.533	1.00	0.00	O
ATOM	720	C	ASP	77	29.399	35.493	-8.275	1.00	0.00	C
ATOM	721	O	ASP	77	29.778	36.384	-7.522	1.00	0.00	O
ATOM	722	N	MET	78	29.138	34.254	-7.829	1.00	0.00	N
ATOM	723	HN	MET	78	28.827	33.529	-8.476	1.00	0.00	H
ATOM	724	CA	MET	78	29.300	33.959	-6.438	1.00	0.00	C
ATOM	725	CB	MET	78	28.832	32.548	-6.040	1.00	0.00	C
ATOM	726	CG	MET	78	28.778	32.353	-4.522	1.00	0.00	C
ATOM	727	SD	MET	78	27.669	31.028	-3.966	1.00	0.00	S
ATOM	728	CE	MET	78	26.181	32.055	-4.145	1.00	0.00	C
ATOM	729	C	MET	78	30.742	34.144	-6.088	1.00	0.00	C
ATOM	730	O	MET	78	31.057	34.600	-4.990	1.00	0.00	O
ATOM	731	N	THR	79	31.673	33.784	-6.992	1.00	0.00	N
ATOM	732	HN	THR	79	31.415	33.346	-7.876	1.00	0.00	H
ATOM	733	CA	THR	79	33.043	34.044	-6.656	1.00	0.00	C
ATOM	734	CB	THR	79	34.040	33.594	-7.680	1.00	0.00	C
ATOM	735	OG1	THR	79	33.860	34.308	-8.895	1.00	0.00	O
ATOM	736	HG1	THR	79	34.492	34.023	-9.544	1.00	0.00	H
ATOM	737	CG2	THR	79	33.868	32.089	-7.908	1.00	0.00	C

ATOM	738	C	THR	79	33.187	35.526	-6.574	1.00	0.00	C
ATOM	739	O	THR	79	33.806	36.052	-5.652	1.00	0.00	O
ATOM	740	N	ARG	80	32.556	36.234	-7.529	1.00	0.00	N
ATOM	741	HN	ARG	80	31.968	35.737	-8.198	1.00	0.00	H
ATOM	742	CA	ARG	80	32.675	37.657	-7.645	1.00	0.00	C
ATOM	743	CB	ARG	80	31.822	38.229	-8.796	1.00	0.00	C
ATOM	744	CG	ARG	80	32.195	37.664	-10.172	1.00	0.00	C
ATOM	745	CD	ARG	80	33.466	38.264	-10.785	1.00	0.00	C
ATOM	746	NE	ARG	80	33.130	39.616	-11.318	1.00	0.00	N
ATOM	747	HE	ARG	80	33.111	40.420	-10.691	1.00	0.00	H
ATOM	748	CZ	ARG	80	32.847	39.779	-12.645	1.00	0.00	C
ATOM	749	NH1	ARG	80	32.912	38.711	-13.494	1.00	0.00	N
ATOM	750	1HH1	ARG	80	33.167	37.791	-13.135	1.00	0.00	H
ATOM	751	2HH1	ARG	80	32.701	38.833	-14.484	1.00	0.00	H
ATOM	752	NH2	ARG	80	32.506	41.010	-13.125	1.00	0.00	N
ATOM	753	1HH2	ARG	80	32.457	41.808	-12.491	1.00	0.00	H
ATOM	754	2HH2	ARG	80	32.295	41.132	-14.115	1.00	0.00	H
ATOM	755	C	ARG	80	32.206	38.283	-6.367	1.00	0.00	C
ATOM	756	O	ARG	80	32.807	39.242	-5.887	1.00	0.00	O
ATOM	757	N	TYR	81	31.121	37.757	-5.770	1.00	0.00	N
ATOM	758	HN	TYR	81	30.654	36.949	-6.183	1.00	0.00	H
ATOM	759	CA	TYR	81	30.619	38.329	-4.555	1.00	0.00	C
ATOM	760	CB	TYR	81	29.414	37.586	-3.942	1.00	0.00	C
ATOM	761	CG	TYR	81	28.199	37.640	-4.807	1.00	0.00	C
ATOM	762	CD1	TYR	81	27.516	38.818	-5.012	1.00	0.00	C
ATOM	763	CD2	TYR	81	27.714	36.486	-5.377	1.00	0.00	C
ATOM	764	CE1	TYR	81	26.384	38.845	-5.795	1.00	0.00	C
ATOM	765	CE2	TYR	81	26.583	36.506	-6.159	1.00	0.00	C
ATOM	766	CZ	TYR	81	25.916	37.688	-6.371	1.00	0.00	C
ATOM	767	OH	TYR	81	24.754	37.708	-7.172	1.00	0.00	O
ATOM	768	HH	TYR	81	24.293	38.525	-7.319	1.00	0.00	H
ATOM	769	C	TYR	81	31.690	38.198	-3.523	1.00	0.00	C
ATOM	770	O	TYR	81	32.014	39.156	-2.824	1.00	0.00	O
ATOM	771	N	ALA	82	32.305	37.005	-3.435	1.00	0.00	N
ATOM	772	HN	ALA	82	32.090	36.271	-4.110	1.00	0.00	H
ATOM	773	CA	ALA	82	33.261	36.761	-2.397	1.00	0.00	C
ATOM	774	CB	ALA	82	33.884	35.357	-2.477	1.00	0.00	C
ATOM	775	C	ALA	82	34.372	37.750	-2.518	1.00	0.00	C
ATOM	776	O	ALA	82	34.785	38.350	-1.527	1.00	0.00	O
ATOM	777	N	TYR	83	34.857	37.988	-3.747	1.00	0.00	N
ATOM	778	HN	TYR	83	34.439	37.539	-4.562	1.00	0.00	H
ATOM	779	CA	TYR	83	35.965	38.876	-3.902	1.00	0.00	C
ATOM	780	CB	TYR	83	36.465	39.023	-5.357	1.00	0.00	C
ATOM	781	CG	TYR	83	36.785	37.667	-5.891	1.00	0.00	C
ATOM	782	CD1	TYR	83	37.836	36.934	-5.389	1.00	0.00	C
ATOM	783	CD2	TYR	83	36.006	37.111	-6.878	1.00	0.00	C
ATOM	784	CE1	TYR	83	38.108	35.677	-5.880	1.00	0.00	C
ATOM	785	CE2	TYR	83	36.273	35.857	-7.373	1.00	0.00	C
ATOM	786	CZ	TYR	83	37.328	35.136	-6.874	1.00	0.00	C
ATOM	787	OH	TYR	83	37.605	33.846	-7.377	1.00	0.00	O
ATOM	788	HH	TYR	83	38.336	33.347	-7.031	1.00	0.00	H
ATOM	789	C	TYR	83	35.534	40.236	-3.455	1.00	0.00	C
ATOM	790	O	TYR	83	36.325	40.970	-2.869	1.00	0.00	O
ATOM	791	N	TYR	84	34.283	40.637	-3.755	1.00	0.00	N
ATOM	792	HN	TYR	84	33.612	40.001	-4.186	1.00	0.00	H
ATOM	793	CA	TYR	84	33.932	41.994	-3.444	1.00	0.00	C
ATOM	794	CB	TYR	84	32.682	42.555	-4.156	1.00	0.00	C
ATOM	795	CG	TYR	84	31.388	42.221	-3.495	1.00	0.00	C
ATOM	796	CD1	TYR	84	30.960	42.956	-2.411	1.00	0.00	C
ATOM	797	CD2	TYR	84	30.582	41.218	-3.977	1.00	0.00	C
ATOM	798	CE1	TYR	84	29.758	42.681	-1.804	1.00	0.00	C
ATOM	799	CE2	TYR	84	29.378	40.938	-3.375	1.00	0.00	C
ATOM	800	CZ	TYR	84	28.964	41.669	-2.287	1.00	0.00	C
ATOM	801	OH	TYR	84	27.728	41.386	-1.669	1.00	0.00	O
ATOM	802	HH	TYR	84	27.442	41.891	-0.917	1.00	0.00	H
ATOM	803	C	TYR	84	33.815	42.262	-1.974	1.00	0.00	C
ATOM	804	O	TYR	84	34.363	43.250	-1.490	1.00	0.00	O
ATOM	805	N	TYR	85	33.120	41.401	-1.203	1.00	0.00	N
ATOM	806	HN	TYR	85	32.701	40.557	-1.593	1.00	0.00	H
ATOM	807	CA	TYR	85	32.995	41.723	0.190	1.00	0.00	C
ATOM	808	CB	TYR	85	32.121	40.772	1.014	1.00	0.00	C
ATOM	809	CG	TYR	85	32.786	39.460	1.242	1.00	0.00	C
ATOM	810	CD1	TYR	85	32.723	38.461	0.300	1.00	0.00	C
ATOM	811	CD2	TYR	85	33.457	39.229	2.421	1.00	0.00	C

ATOM	812	CE1	TYR	85	33.332	37.251	0.530	1.00	0.00	C
ATOM	813	CE2	TYR	85	34.068	38.022	2.657	1.00	0.00	C
ATOM	814	CZ	TYR	85	34.005	37.030	1.708	1.00	0.00	C
ATOM	815	OH	TYR	85	34.629	35.787	1.943	1.00	0.00	O
ATOM	816	HH	TYR	85	35.094	35.634	2.757	1.00	0.00	H
ATOM	817	C	TYR	85	34.364	41.672	0.752	1.00	0.00	C
ATOM	818	O	TYR	85	34.723	42.449	1.628	1.00	0.00	O
ATOM	819	N	SER	86	35.165	40.723	0.257	1.00	0.00	N
ATOM	820	HN	SER	86	34.814	40.100	-0.471	1.00	0.00	H
ATOM	821	CA	SER	86	36.500	40.566	0.728	1.00	0.00	C
ATOM	822	CB	SER	86	37.245	39.492	-0.077	1.00	0.00	C
ATOM	823	OG	SER	86	38.570	39.350	0.403	1.00	0.00	O
ATOM	824	HG	SER	86	39.031	38.685	-0.095	1.00	0.00	H
ATOM	825	C	SER	86	37.256	41.849	0.571	1.00	0.00	C
ATOM	826	O	SER	86	37.525	42.538	1.553	1.00	0.00	O
ATOM	827	N	GLY	87	37.534	42.255	-0.685	1.00	0.00	N
ATOM	828	HN	GLY	87	37.111	41.768	-1.475	1.00	0.00	H
ATOM	829	CA	GLY	87	38.416	43.361	-0.926	1.00	0.00	C
ATOM	830	C	GLY	87	37.916	44.584	-0.232	1.00	0.00	C
ATOM	831	O	GLY	87	38.694	45.294	0.403	1.00	0.00	O
ATOM	832	N	ILE	88	36.613	44.892	-0.346	1.00	0.00	N
ATOM	833	HN	ILE	88	35.977	44.301	-0.881	1.00	0.00	H
ATOM	834	CA	ILE	88	36.147	46.078	0.309	1.00	0.00	C
ATOM	835	CB	ILE	88	34.723	46.420	-0.017	1.00	0.00	C
ATOM	836	CG1	ILE	88	34.572	46.736	-1.515	1.00	0.00	C
ATOM	837	CG2	ILE	88	34.286	47.565	0.920	1.00	0.00	C
ATOM	838	CD1	ILE	88	35.390	47.947	-1.959	1.00	0.00	C
ATOM	839	C	ILE	88	36.189	45.897	1.791	1.00	0.00	C
ATOM	840	O	ILE	88	36.826	46.660	2.513	1.00	0.00	O
ATOM	841	N	GLY	89	35.575	44.810	2.277	1.00	0.00	N
ATOM	842	HN	GLY	89	35.254	44.086	1.635	1.00	0.00	H
ATOM	843	CA	GLY	89	35.363	44.649	3.682	1.00	0.00	C
ATOM	844	C	GLY	89	36.648	44.664	4.425	1.00	0.00	C
ATOM	845	O	GLY	89	36.802	45.421	5.381	1.00	0.00	O
ATOM	846	N	ALA	90	37.621	43.858	3.983	1.00	0.00	N
ATOM	847	HN	ALA	90	37.472	43.271	3.163	1.00	0.00	H
ATOM	848	CA	ALA	90	38.869	43.831	4.674	1.00	0.00	C
ATOM	849	CB	ALA	90	39.885	42.889	4.013	1.00	0.00	C
ATOM	850	C	ALA	90	39.393	45.217	4.566	1.00	0.00	C
ATOM	851	O	ALA	90	39.915	45.781	5.527	1.00	0.00	O
ATOM	852	N	GLY	91	39.179	45.829	3.388	1.00	0.00	N
ATOM	853	HN	GLY	91	38.624	45.374	2.664	1.00	0.00	H
ATOM	854	CA	GLY	91	39.737	47.121	3.163	1.00	0.00	C
ATOM	855	C	GLY	91	39.249	48.088	4.198	1.00	0.00	C
ATOM	856	O	GLY	91	40.048	48.713	4.889	1.00	0.00	O
ATOM	857	N	VAL	92	37.927	48.179	4.398	1.00	0.00	N
ATOM	858	HN	VAL	92	37.299	47.543	3.906	1.00	0.00	H
ATOM	859	CA	VAL	92	37.382	49.158	5.294	1.00	0.00	C
ATOM	860	CB	VAL	92	35.905	48.997	5.445	1.00	0.00	C
ATOM	861	CG1	VAL	92	35.391	50.070	6.405	1.00	0.00	C
ATOM	862	CG2	VAL	92	35.262	49.006	4.055	1.00	0.00	C
ATOM	863	C	VAL	92	37.943	48.961	6.661	1.00	0.00	C
ATOM	864	O	VAL	92	38.457	49.910	7.250	1.00	0.00	O
ATOM	865	N	LEU	93	37.921	47.713	7.175	1.00	0.00	N
ATOM	866	HN	LEU	93	37.615	46.929	6.598	1.00	0.00	H
ATOM	867	CA	LEU	93	38.330	47.488	8.537	1.00	0.00	C
ATOM	868	CB	LEU	93	38.424	46.014	8.933	1.00	0.00	C
ATOM	869	CG	LEU	93	37.063	45.413	9.247	1.00	0.00	C
ATOM	870	CD1	LEU	93	36.494	46.066	10.518	1.00	0.00	C
ATOM	871	CD2	LEU	93	36.137	45.507	8.029	1.00	0.00	C
ATOM	872	C	LEU	93	39.704	48.012	8.748	1.00	0.00	C
ATOM	873	O	LEU	93	39.948	48.735	9.713	1.00	0.00	O
ATOM	874	N	VAL	94	40.639	47.687	7.843	1.00	0.00	N
ATOM	875	HN	VAL	94	40.405	47.147	7.010	1.00	0.00	H
ATOM	876	CA	VAL	94	41.976	48.127	8.091	1.00	0.00	C
ATOM	877	CB	VAL	94	42.978	47.593	7.103	1.00	0.00	C
ATOM	878	CG1	VAL	94	43.019	46.064	7.259	1.00	0.00	C
ATOM	879	CG2	VAL	94	42.624	48.057	5.679	1.00	0.00	C
ATOM	880	C	VAL	94	42.049	49.629	8.081	1.00	0.00	C
ATOM	881	O	VAL	94	42.578	50.236	9.011	1.00	0.00	O
ATOM	882	N	ALA	95	41.496	50.261	7.029	1.00	0.00	N
ATOM	883	HN	ALA	95	40.991	49.701	6.343	1.00	0.00	H
ATOM	884	CA	ALA	95	41.577	51.682	6.817	1.00	0.00	C
ATOM	885	CB	ALA	95	41.051	52.097	5.432	1.00	0.00	C

ATOM	886	C	ALA	95	40.820	52.486	7.829	1.00	0.00	C
ATOM	887	O	ALA	95	41.265	53.565	8.216	1.00	0.00	O
ATOM	888	N	ALA	96	39.627	52.019	8.244	1.00	0.00	N
ATOM	889	HN	ALA	96	39.290	51.115	7.914	1.00	0.00	H
ATOM	890	CA	ALA	96	38.829	52.794	9.151	1.00	0.00	C
ATOM	891	CB	ALA	96	37.479	52.138	9.487	1.00	0.00	C
ATOM	892	C	ALA	96	39.581	52.936	10.425	1.00	0.00	C
ATOM	893	O	ALA	96	39.762	54.048	10.923	1.00	0.00	O
ATOM	894	N	TYR	97	40.123	51.807	10.922	1.00	0.00	N
ATOM	895	HN	TYR	97	40.035	50.935	10.401	1.00	0.00	H
ATOM	896	CA	TYR	97	40.819	51.816	12.170	1.00	0.00	C
ATOM	897	CB	TYR	97	41.444	50.464	12.550	1.00	0.00	C
ATOM	898	CG	TYR	97	42.294	50.705	13.752	1.00	0.00	C
ATOM	899	CD1	TYR	97	41.743	50.775	15.011	1.00	0.00	C
ATOM	900	CD2	TYR	97	43.654	50.864	13.613	1.00	0.00	C
ATOM	901	CE1	TYR	97	42.538	50.996	16.112	1.00	0.00	C
ATOM	902	CE2	TYR	97	44.454	51.085	14.709	1.00	0.00	C
ATOM	903	CZ	TYR	97	43.895	51.151	15.962	1.00	0.00	C
ATOM	904	OH	TYR	97	44.716	51.378	17.086	1.00	0.00	O
ATOM	905	HH	TYR	97	45.654	51.485	16.982	1.00	0.00	H
ATOM	906	C	TYR	97	41.931	52.792	12.031	1.00	0.00	C
ATOM	907	O	TYR	97	42.275	53.491	12.982	1.00	0.00	O
ATOM	908	N	ILE	98	42.537	52.849	10.833	1.00	0.00	N
ATOM	909	HN	ILE	98	42.213	52.257	10.068	1.00	0.00	H
ATOM	910	CA	ILE	98	43.638	53.742	10.632	1.00	0.00	C
ATOM	911	CB	ILE	98	44.280	53.581	9.286	1.00	0.00	C
ATOM	912	CG1	ILE	98	44.827	52.149	9.135	1.00	0.00	C
ATOM	913	CG2	ILE	98	45.352	54.675	9.144	1.00	0.00	C
ATOM	914	CD1	ILE	98	45.825	51.756	10.225	1.00	0.00	C
ATOM	915	C	ILE	98	43.199	55.178	10.786	1.00	0.00	C
ATOM	916	O	ILE	98	43.832	55.937	11.515	1.00	0.00	O
ATOM	917	N	GLN	99	42.071	55.579	10.162	1.00	0.00	N
ATOM	918	HN	GLN	99	41.520	54.886	9.656	1.00	0.00	H
ATOM	919	CA	GLN	99	41.612	56.948	10.181	1.00	0.00	C
ATOM	920	CB	GLN	99	40.212	57.098	9.555	1.00	0.00	C
ATOM	921	CG	GLN	99	40.063	56.565	8.131	1.00	0.00	C
ATOM	922	CD	GLN	99	38.593	56.673	7.729	1.00	0.00	C
ATOM	923	OE1	GLN	99	38.200	56.243	6.646	1.00	0.00	O
ATOM	924	NE2	GLN	99	37.753	57.260	8.623	1.00	0.00	N
ATOM	925	1HE2	GLN	99	38.079	57.617	9.521	1.00	0.00	H
ATOM	926	2HE2	GLN	99	36.772	57.332	8.355	1.00	0.00	H
ATOM	927	C	GLN	99	41.394	57.376	11.604	1.00	0.00	C
ATOM	928	O	GLN	99	41.617	58.527	11.966	1.00	0.00	O
ATOM	929	N	VAL	100	40.871	56.475	12.442	1.00	0.00	N
ATOM	930	HN	VAL	100	40.655	55.540	12.096	1.00	0.00	H
ATOM	931	CA	VAL	100	40.606	56.791	13.818	1.00	0.00	C
ATOM	932	CB	VAL	100	39.838	55.697	14.503	1.00	0.00	C
ATOM	933	CG1	VAL	100	39.602	56.099	15.969	1.00	0.00	C
ATOM	934	CG2	VAL	100	38.551	55.431	13.701	1.00	0.00	C
ATOM	935	C	VAL	100	41.902	56.989	14.550	1.00	0.00	C
ATOM	936	O	VAL	100	41.999	57.815	15.459	1.00	0.00	O
ATOM	937	N	SER	101	42.936	56.209	14.183	1.00	0.00	N
ATOM	938	HN	SER	101	42.802	55.531	13.433	1.00	0.00	H
ATOM	939	CA	SER	101	44.220	56.303	14.814	1.00	0.00	C
ATOM	940	CB	SER	101	45.244	55.332	14.206	1.00	0.00	C
ATOM	941	OG	SER	101	44.796	53.995	14.366	1.00	0.00	O
ATOM	942	HG	SER	101	45.429	53.395	13.990	1.00	0.00	H
ATOM	943	C	SER	101	44.722	57.682	14.540	1.00	0.00	C
ATOM	944	O	SER	101	45.524	58.237	15.293	1.00	0.00	O
ATOM	945	N	PHE	102	44.262	58.253	13.412	1.00	0.00	N
ATOM	946	HN	PHE	102	43.644	57.718	12.803	1.00	0.00	H
ATOM	947	CA	PHE	102	44.615	59.588	13.043	1.00	0.00	C
ATOM	948	CB	PHE	102	43.864	60.053	11.777	1.00	0.00	C
ATOM	949	CG	PHE	102	44.162	61.448	11.311	1.00	0.00	C
ATOM	950	CD1	PHE	102	43.979	62.551	12.118	1.00	0.00	C
ATOM	951	CD2	PHE	102	44.646	61.655	10.042	1.00	0.00	C
ATOM	952	CE1	PHE	102	44.241	63.825	11.677	1.00	0.00	C
ATOM	953	CE2	PHE	102	44.909	62.927	9.589	1.00	0.00	C
ATOM	954	CZ	PHE	102	44.703	64.015	10.400	1.00	0.00	C
ATOM	955	C	PHE	102	44.098	60.447	14.137	1.00	0.00	C
ATOM	956	O	PHE	102	44.869	61.173	14.763	1.00	0.00	O
ATOM	957	N	TRP	103	42.787	60.299	14.441	1.00	0.00	N
ATOM	958	HN	TRP	103	42.257	59.524	14.042	1.00	0.00	H
ATOM	959	CA	TRP	103	42.142	61.227	15.321	1.00	0.00	C

ATOM	960	CB	TRP	103	40.676	60.850	15.679	1.00	0.00	C
ATOM	961	CG	TRP	103	39.964	61.761	16.680	1.00	0.00	C
ATOM	962	CD2	TRP	103	38.608	62.222	16.544	1.00	0.00	C
ATOM	963	CD1	TRP	103	40.436	62.331	17.833	1.00	0.00	C
ATOM	964	NE1	TRP	103	39.466	63.102	18.417	1.00	0.00	N
ATOM	965	HE1	TRP	103	39.565	63.625	19.287	1.00	0.00	H
ATOM	966	CE2	TRP	103	38.335	63.053	17.633	1.00	0.00	C
ATOM	967	CE3	TRP	103	37.666	61.992	15.577	1.00	0.00	C
ATOM	968	CZ2	TRP	103	37.120	63.659	17.775	1.00	0.00	C
ATOM	969	CZ3	TRP	103	36.438	62.600	15.730	1.00	0.00	C
ATOM	970	CH2	TRP	103	36.170	63.419	16.807	1.00	0.00	C
ATOM	971	C	TRP	103	42.901	61.376	16.597	1.00	0.00	C
ATOM	972	O	TRP	103	43.530	62.408	16.816	1.00	0.00	O
ATOM	973	N	CYS	104	42.938	60.338	17.436	1.00	0.00	N
ATOM	974	HN	CYS	104	42.565	59.429	17.161	1.00	0.00	H
ATOM	975	CA	CYS	104	43.514	60.533	18.729	1.00	0.00	C
ATOM	976	CB	CYS	104	43.141	59.432	19.727	1.00	0.00	C
ATOM	977	SG	CYS	104	41.367	59.423	20.129	1.00	0.00	S
ATOM	978	C	CYS	104	44.991	60.703	18.751	1.00	0.00	C
ATOM	979	O	CYS	104	45.450	61.548	19.512	1.00	0.00	O
ATOM	980	N	LEU	105	45.778	59.945	17.952	1.00	0.00	N
ATOM	981	HN	LEU	105	45.377	59.297	17.274	1.00	0.00	H
ATOM	982	CA	LEU	105	47.202	60.089	18.097	1.00	0.00	C
ATOM	983	CB	LEU	105	48.048	59.248	17.127	1.00	0.00	C
ATOM	984	CG	LEU	105	48.266	57.805	17.601	1.00	0.00	C
ATOM	985	CD1	LEU	105	49.117	57.011	16.598	1.00	0.00	C
ATOM	986	CD2	LEU	105	48.880	57.805	19.011	1.00	0.00	C
ATOM	987	C	LEU	105	47.546	61.512	17.854	1.00	0.00	C
ATOM	988	O	LEU	105	48.208	62.146	18.677	1.00	0.00	O
ATOM	989	N	ALA	106	47.010	62.073	16.764	1.00	0.00	N
ATOM	990	HN	ALA	106	46.385	61.556	16.145	1.00	0.00	H
ATOM	991	CA	ALA	106	47.359	63.430	16.516	1.00	0.00	C
ATOM	992	CB	ALA	106	46.800	63.935	15.175	1.00	0.00	C
ATOM	993	C	ALA	106	46.848	64.351	17.584	1.00	0.00	C
ATOM	994	O	ALA	106	47.615	64.831	18.414	1.00	0.00	O
ATOM	995	N	ALA	107	45.517	64.458	17.725	1.00	0.00	N
ATOM	996	HN	ALA	107	44.909	63.821	17.209	1.00	0.00	H
ATOM	997	CA	ALA	107	44.927	65.448	18.585	1.00	0.00	C
ATOM	998	CB	ALA	107	43.393	65.358	18.628	1.00	0.00	C
ATOM	999	C	ALA	107	45.423	65.244	19.974	1.00	0.00	C
ATOM	1000	O	ALA	107	45.694	66.198	20.700	1.00	0.00	O
ATOM	1001	N	GLY	108	45.597	63.979	20.373	1.00	0.00	N
ATOM	1002	HN	GLY	108	45.456	63.205	19.724	1.00	0.00	H
ATOM	1003	CA	GLY	108	45.984	63.735	21.724	1.00	0.00	C
ATOM	1004	C	GLY	108	47.289	64.414	22.030	1.00	0.00	C
ATOM	1005	O	GLY	108	47.347	65.285	22.897	1.00	0.00	O
ATOM	1006	N	ARG	109	48.358	64.116	21.270	1.00	0.00	N
ATOM	1007	HN	ARG	109	48.262	63.504	20.460	1.00	0.00	H
ATOM	1008	CA	ARG	109	49.639	64.672	21.615	1.00	0.00	C
ATOM	1009	CB	ARG	109	50.771	64.161	20.715	1.00	0.00	C
ATOM	1010	CG	ARG	109	50.962	62.645	20.810	1.00	0.00	C
ATOM	1011	CD	ARG	109	52.272	62.149	20.199	1.00	0.00	C
ATOM	1012	NE	ARG	109	53.346	62.420	21.195	1.00	0.00	N
ATOM	1013	HE	ARG	109	53.821	63.323	21.190	1.00	0.00	H
ATOM	1014	CZ	ARG	109	53.703	61.475	22.115	1.00	0.00	C
ATOM	1015	NH1	ARG	109	53.143	60.231	22.080	1.00	0.00	N
ATOM	1016	1HH1	ARG	109	53.410	59.526	22.767	1.00	0.00	H
ATOM	1017	2HH1	ARG	109	52.448	60.005	21.368	1.00	0.00	H
ATOM	1018	NH2	ARG	109	54.632	61.777	23.067	1.00	0.00	N
ATOM	1019	1HH2	ARG	109	54.899	61.072	23.754	1.00	0.00	H
ATOM	1020	2HH2	ARG	109	55.051	62.707	23.093	1.00	0.00	H
ATOM	1021	C	ARG	109	49.586	66.153	21.469	1.00	0.00	C
ATOM	1022	O	ARG	109	50.138	66.898	22.280	1.00	0.00	O
ATOM	1023	N	GLN	110	48.895	66.625	20.421	1.00	0.00	N
ATOM	1024	HN	GLN	110	48.386	65.993	19.803	1.00	0.00	H
ATOM	1025	CA	GLN	110	48.889	68.037	20.192	1.00	0.00	C
ATOM	1026	CB	GLN	110	48.090	68.481	18.955	1.00	0.00	C
ATOM	1027	CG	GLN	110	48.834	68.285	17.632	1.00	0.00	C
ATOM	1028	CD	GLN	110	48.350	67.025	16.934	1.00	0.00	C
ATOM	1029	OE1	GLN	110	49.110	66.079	16.741	1.00	0.00	O
ATOM	1030	NE2	GLN	110	47.053	67.021	16.522	1.00	0.00	N
ATOM	1031	1HE2	GLN	110	46.422	67.806	16.682	1.00	0.00	H
ATOM	1032	2HE2	GLN	110	46.728	66.175	16.053	1.00	0.00	H
ATOM	1033	C	GLN	110	48.298	68.747	21.368	1.00	0.00	C

ATOM	1034	O	GLN	110	48.796	69.796	21.776	1.00	0.00	O
ATOM	1035	N	ILE	111	47.201	68.218	21.933	1.00	0.00	N
ATOM	1036	HN	ILE	111	46.804	67.347	21.581	1.00	0.00	H
ATOM	1037	CA	ILE	111	46.598	68.899	23.039	1.00	0.00	C
ATOM	1038	CB	ILE	111	45.178	68.514	23.335	1.00	0.00	C
ATOM	1039	CG1	ILE	111	44.302	69.102	22.224	1.00	0.00	C
ATOM	1040	CG2	ILE	111	44.777	69.017	24.735	1.00	0.00	C
ATOM	1041	CD1	ILE	111	42.827	68.792	22.397	1.00	0.00	C
ATOM	1042	C	ILE	111	47.423	68.844	24.278	1.00	0.00	C
ATOM	1043	O	ILE	111	47.473	69.832	24.998	1.00	0.00	O
ATOM	1044	N	HIS	112	48.104	67.720	24.563	1.00	0.00	N
ATOM	1045	HN	HIS	112	48.084	66.943	23.903	1.00	0.00	H
ATOM	1046	CA	HIS	112	48.860	67.591	25.779	1.00	0.00	C
ATOM	1047	ND1	HIS	112	49.558	65.449	28.165	1.00	0.00	N
ATOM	1048	HD1	HIS	112	48.543	65.383	28.235	1.00	0.00	H
ATOM	1049	CG	HIS	112	50.279	65.885	27.077	1.00	0.00	C
ATOM	1050	CB	HIS	112	49.664	66.281	25.770	1.00	0.00	C
ATOM	1051	NE2	HIS	112	51.704	65.322	28.731	1.00	0.00	N
ATOM	1052	HE2	HIS	112	52.560	65.156	29.260	1.00	0.00	H
ATOM	1053	CD2	HIS	112	51.587	65.805	27.440	1.00	0.00	C
ATOM	1054	CE1	HIS	112	50.459	65.124	29.126	1.00	0.00	C
ATOM	1055	C	HIS	112	49.807	68.749	25.839	1.00	0.00	C
ATOM	1056	O	HIS	112	49.919	69.433	26.858	1.00	0.00	O
ATOM	1057	N	LYS	113	50.464	69.038	24.706	1.00	0.00	N
ATOM	1058	HN	LYS	113	50.318	68.468	23.873	1.00	0.00	H
ATOM	1059	CA	LYS	113	51.368	70.144	24.664	1.00	0.00	C
ATOM	1060	CB	LYS	113	52.084	70.247	23.311	1.00	0.00	C
ATOM	1061	CG	LYS	113	53.205	69.218	23.183	1.00	0.00	C
ATOM	1062	CD	LYS	113	53.656	68.942	21.751	1.00	0.00	C
ATOM	1063	CE	LYS	113	54.989	68.194	21.678	1.00	0.00	C
ATOM	1064	NZ	LYS	113	55.065	67.180	22.753	1.00	0.00	N
ATOM	1065	HZ1	LYS	113	55.954	66.681	22.704	1.00	0.00	H
ATOM	1066	HZ2	LYS	113	54.269	66.543	22.733	1.00	0.00	H
ATOM	1067	HZ3	LYS	113	54.907	67.589	23.674	1.00	0.00	H
ATOM	1068	C	LYS	113	50.614	71.413	24.900	1.00	0.00	C
ATOM	1069	O	LYS	113	51.027	72.252	25.704	1.00	0.00	O
ATOM	1070	N	ILE	114	49.455	71.575	24.236	1.00	0.00	N
ATOM	1071	HN	ILE	114	49.069	70.832	23.653	1.00	0.00	H
ATOM	1072	CA	ILE	114	48.785	72.831	24.381	1.00	0.00	C
ATOM	1073	CB	ILE	114	47.563	73.026	23.512	1.00	0.00	C
ATOM	1074	CG1	ILE	114	47.172	74.510	23.529	1.00	0.00	C
ATOM	1075	CG2	ILE	114	46.407	72.137	23.992	1.00	0.00	C
ATOM	1076	CD1	ILE	114	48.218	75.429	22.902	1.00	0.00	C
ATOM	1077	C	ILE	114	48.395	73.007	25.810	1.00	0.00	C
ATOM	1078	O	ILE	114	48.700	74.036	26.409	1.00	0.00	O
ATOM	1079	N	ARG	115	47.826	71.954	26.422	1.00	0.00	N
ATOM	1080	HN	ARG	115	47.798	71.058	25.935	1.00	0.00	H
ATOM	1081	CA	ARG	115	47.261	72.046	27.726	1.00	0.00	C
ATOM	1082	CB	ARG	115	46.803	70.699	28.317	1.00	0.00	C
ATOM	1083	CG	ARG	115	45.512	70.130	27.729	1.00	0.00	C
ATOM	1084	CD	ARG	115	44.963	68.959	28.548	1.00	0.00	C
ATOM	1085	NE	ARG	115	43.710	68.478	27.902	1.00	0.00	N
ATOM	1086	HE	ARG	115	43.740	67.707	27.235	1.00	0.00	H
ATOM	1087	CZ	ARG	115	42.522	69.074	28.208	1.00	0.00	C
ATOM	1088	NH1	ARG	115	42.494	70.146	29.052	1.00	0.00	N
ATOM	1089	1HH1	ARG	115	41.606	70.592	29.281	1.00	0.00	H
ATOM	1090	2HH1	ARG	115	43.362	70.498	29.457	1.00	0.00	H
ATOM	1091	NH2	ARG	115	41.360	68.603	27.666	1.00	0.00	N
ATOM	1092	1HH2	ARG	115	40.472	69.049	27.895	1.00	0.00	H
ATOM	1093	2HH2	ARG	115	41.381	67.802	27.035	1.00	0.00	H
ATOM	1094	C	ARG	115	48.255	72.601	28.690	1.00	0.00	C
ATOM	1095	O	ARG	115	47.972	73.605	29.339	1.00	0.00	O
ATOM	1096	N	LYS	116	49.469	72.030	28.762	1.00	0.00	N
ATOM	1097	HN	LYS	116	49.737	71.295	28.108	1.00	0.00	H
ATOM	1098	CA	LYS	116	50.383	72.475	29.779	1.00	0.00	C
ATOM	1099	CB	LYS	116	51.669	71.642	29.864	1.00	0.00	C
ATOM	1100	CG	LYS	116	52.606	72.153	30.958	1.00	0.00	C
ATOM	1101	CD	LYS	116	53.613	71.117	31.455	1.00	0.00	C
ATOM	1102	CE	LYS	116	54.117	70.159	30.378	1.00	0.00	C
ATOM	1103	NZ	LYS	116	54.988	69.136	30.999	1.00	0.00	N
ATOM	1104	HZ1	LYS	116	55.325	68.496	30.280	1.00	0.00	H
ATOM	1105	HZ2	LYS	116	54.524	68.647	31.764	1.00	0.00	H
ATOM	1106	HZ3	LYS	116	55.751	69.551	31.534	1.00	0.00	H
ATOM	1107	C	LYS	116	50.758	73.906	29.591	1.00	0.00	C

ATOM	1108	O	LYS	116	50.857	74.657	30.564	1.00	0.00	O
ATOM	1109	N	GLN	117	50.967	74.333	28.334	1.00	0.00	N
ATOM	1110	HN	GLN	117	50.831	73.711	27.537	1.00	0.00	H
ATOM	1111	CA	GLN	117	51.387	75.690	28.149	1.00	0.00	C
ATOM	1112	CB	GLN	117	51.599	76.064	26.668	1.00	0.00	C
ATOM	1113	CG	GLN	117	52.828	75.421	26.023	1.00	0.00	C
ATOM	1114	CD	GLN	117	54.063	76.181	26.491	1.00	0.00	C
ATOM	1115	OE1	GLN	117	55.097	76.168	25.826	1.00	0.00	O
ATOM	1116	NE2	GLN	117	53.958	76.866	27.662	1.00	0.00	N
ATOM	1117	1HE2	GLN	117	54.785	77.375	27.975	1.00	0.00	H
ATOM	1118	2HE2	GLN	117	53.100	76.877	28.214	1.00	0.00	H
ATOM	1119	C	GLN	117	50.317	76.584	28.690	1.00	0.00	C
ATOM	1120	O	GLN	117	50.595	77.534	29.422	1.00	0.00	O
ATOM	1121	N	PHE	118	49.050	76.252	28.388	1.00	0.00	N
ATOM	1122	HN	PHE	118	48.874	75.380	27.889	1.00	0.00	H
ATOM	1123	CA	PHE	118	47.938	77.084	28.745	1.00	0.00	C
ATOM	1124	CB	PHE	118	46.579	76.471	28.348	1.00	0.00	C
ATOM	1125	CG	PHE	118	45.558	77.558	28.244	1.00	0.00	C
ATOM	1126	CD1	PHE	118	45.574	78.640	29.091	1.00	0.00	C
ATOM	1127	CD2	PHE	118	44.619	77.527	27.238	1.00	0.00	C
ATOM	1128	CE1	PHE	118	44.640	79.642	28.965	1.00	0.00	C
ATOM	1129	CE2	PHE	118	43.680	78.524	27.108	1.00	0.00	C
ATOM	1130	CZ	PHE	118	43.687	79.585	27.979	1.00	0.00	C
ATOM	1131	C	PHE	118	47.870	77.172	30.243	1.00	0.00	C
ATOM	1132	O	PHE	118	47.692	78.257	30.794	1.00	0.00	O
ATOM	1133	N	PHE	119	48.030	76.029	30.950	1.00	0.00	N
ATOM	1134	HN	PHE	119	48.296	75.167	30.474	1.00	0.00	H
ATOM	1135	CA	PHE	119	47.824	76.033	32.376	1.00	0.00	C
ATOM	1136	CB	PHE	119	48.139	74.701	33.086	1.00	0.00	C
ATOM	1137	CG	PHE	119	47.109	73.664	32.785	1.00	0.00	C
ATOM	1138	CD1	PHE	119	45.906	73.645	33.449	1.00	0.00	C
ATOM	1139	CD2	PHE	119	47.335	72.703	31.834	1.00	0.00	C
ATOM	1140	CE1	PHE	119	44.963	72.686	33.173	1.00	0.00	C
ATOM	1141	CE2	PHE	119	46.396	71.741	31.550	1.00	0.00	C
ATOM	1142	CZ	PHE	119	45.201	71.728	32.223	1.00	0.00	C
ATOM	1143	C	PHE	119	48.716	77.048	33.038	1.00	0.00	C
ATOM	1144	O	PHE	119	48.234	77.932	33.745	1.00	0.00	O
ATOM	1145	N	HIS	120	50.039	76.967	32.802	1.00	0.00	N
ATOM	1146	HN	HIS	120	50.368	76.229	32.179	1.00	0.00	H
ATOM	1147	CA	HIS	120	51.023	77.857	33.374	1.00	0.00	C
ATOM	1148	ND1	HIS	120	54.348	78.212	34.401	1.00	0.00	N
ATOM	1149	HD1	HIS	120	54.298	77.443	35.070	1.00	0.00	H
ATOM	1150	CG	HIS	120	53.535	78.404	33.309	1.00	0.00	C
ATOM	1151	CB	HIS	120	52.433	77.477	32.889	1.00	0.00	C
ATOM	1152	NE2	HIS	120	55.037	80.082	33.412	1.00	0.00	N
ATOM	1153	HE2	HIS	120	55.561	80.931	33.197	1.00	0.00	H
ATOM	1154	CD2	HIS	120	53.966	79.550	32.717	1.00	0.00	C
ATOM	1155	CE1	HIS	120	55.230	79.245	34.416	1.00	0.00	C
ATOM	1156	C	HIS	120	50.743	79.234	32.884	1.00	0.00	C
ATOM	1157	O	HIS	120	50.944	80.219	33.597	1.00	0.00	O
ATOM	1158	N	ALA	121	50.295	79.333	31.623	1.00	0.00	N
ATOM	1159	HN	ALA	121	50.119	78.501	31.061	1.00	0.00	H
ATOM	1160	CA	ALA	121	50.072	80.643	31.092	1.00	0.00	C
ATOM	1161	CB	ALA	121	49.584	80.616	29.634	1.00	0.00	C
ATOM	1162	C	ALA	121	49.015	81.328	31.889	1.00	0.00	C
ATOM	1163	O	ALA	121	49.257	82.432	32.380	1.00	0.00	O
ATOM	1164	N	ILE	122	47.865	80.648	32.120	1.00	0.00	N
ATOM	1165	HN	ILE	122	47.775	79.677	31.821	1.00	0.00	H
ATOM	1166	CA	ILE	122	46.773	81.301	32.788	1.00	0.00	C
ATOM	1167	CB	ILE	122	45.611	80.414	33.132	1.00	0.00	C
ATOM	1168	CG1	ILE	122	44.949	79.814	31.886	1.00	0.00	C
ATOM	1169	CG2	ILE	122	44.649	81.262	33.982	1.00	0.00	C
ATOM	1170	CD1	ILE	122	43.901	78.747	32.203	1.00	0.00	C
ATOM	1171	C	ILE	122	47.275	81.755	34.121	1.00	0.00	C
ATOM	1172	O	ILE	122	47.106	82.909	34.494	1.00	0.00	O
ATOM	1173	N	MET	123	48.013	80.881	34.819	1.00	0.00	N
ATOM	1174	HN	MET	123	48.265	80.000	34.371	1.00	0.00	H
ATOM	1175	CA	MET	123	48.470	81.112	36.159	1.00	0.00	C
ATOM	1176	CB	MET	123	49.238	79.908	36.733	1.00	0.00	C
ATOM	1177	CG	MET	123	48.352	78.681	36.952	1.00	0.00	C
ATOM	1178	SD	MET	123	47.026	78.945	38.167	1.00	0.00	S
ATOM	1179	CE	MET	123	48.124	78.975	39.614	1.00	0.00	C
ATOM	1180	C	MET	123	49.368	82.307	36.247	1.00	0.00	C
ATOM	1181	O	MET	123	49.570	82.831	37.338	1.00	0.00	O

ATOM	1182	N	ARG	124	50.093	82.637	35.169	1.00	0.00	N
ATOM	1183	HN	ARG	124	50.048	82.032	34.349	1.00	0.00	H
ATOM	1184	CA	ARG	124	50.936	83.811	35.114	1.00	0.00	C
ATOM	1185	CB	ARG	124	52.149	83.637	34.183	1.00	0.00	C
ATOM	1186	CG	ARG	124	53.198	82.664	34.741	1.00	0.00	C
ATOM	1187	CD	ARG	124	54.117	83.274	35.810	1.00	0.00	C
ATOM	1188	NE	ARG	124	54.940	82.175	36.398	1.00	0.00	N
ATOM	1189	HE	ARG	124	54.836	81.223	36.047	1.00	0.00	H
ATOM	1190	CZ	ARG	124	55.832	82.433	37.403	1.00	0.00	C
ATOM	1191	NH1	ARG	124	56.011	83.708	37.854	1.00	0.00	N
ATOM	1192	1HH1	ARG	124	56.676	83.900	38.603	1.00	0.00	H
ATOM	1193	2HH1	ARG	124	55.487	84.474	37.432	1.00	0.00	H
ATOM	1194	NH2	ARG	124	56.534	81.407	37.968	1.00	0.00	N
ATOM	1195	1HH2	ARG	124	57.199	81.599	38.717	1.00	0.00	H
ATOM	1196	2HH2	ARG	124	56.400	80.454	37.631	1.00	0.00	H
ATOM	1197	C	ARG	124	50.232	85.083	34.727	1.00	0.00	C
ATOM	1198	O	ARG	124	50.724	86.172	35.017	1.00	0.00	O
ATOM	1199	N	GLN	125	49.077	84.982	34.043	1.00	0.00	N
ATOM	1200	HN	GLN	125	48.659	84.057	33.940	1.00	0.00	H
ATOM	1201	CA	GLN	125	48.395	86.107	33.447	1.00	0.00	C
ATOM	1202	CB	GLN	125	47.035	85.722	32.815	1.00	0.00	C
ATOM	1203	CG	GLN	125	46.345	86.878	32.073	1.00	0.00	C
ATOM	1204	CD	GLN	125	44.969	86.438	31.570	1.00	0.00	C
ATOM	1205	OE1	GLN	125	43.972	86.526	32.286	1.00	0.00	O
ATOM	1206	NE2	GLN	125	44.900	85.964	30.297	1.00	0.00	N
ATOM	1207	1HE2	GLN	125	45.726	85.891	29.704	1.00	0.00	H
ATOM	1208	2HE2	GLN	125	43.982	85.671	29.962	1.00	0.00	H
ATOM	1209	C	GLN	125	48.130	87.126	34.515	1.00	0.00	C
ATOM	1210	O	GLN	125	47.973	88.311	34.221	1.00	0.00	O
ATOM	1211	N	GLU	126	47.998	86.675	35.776	1.00	0.00	N
ATOM	1212	HN	GLU	126	48.054	85.672	35.955	1.00	0.00	H
ATOM	1213	CA	GLU	126	47.781	87.566	36.869	1.00	0.00	C
ATOM	1214	CB	GLU	126	48.974	88.475	37.217	1.00	0.00	C
ATOM	1215	CG	GLU	126	49.941	87.830	38.221	1.00	0.00	C
ATOM	1216	CD	GLU	126	50.284	86.410	37.783	1.00	0.00	C
ATOM	1217	OE1	GLU	126	49.370	85.541	37.801	1.00	0.00	O
ATOM	1218	OE2	GLU	126	51.474	86.174	37.441	1.00	0.00	O
ATOM	1219	C	GLU	126	46.516	88.338	36.713	1.00	0.00	C
ATOM	1220	O	GLU	126	45.470	87.828	36.328	1.00	0.00	O
ATOM	1221	N	ILE	127	46.620	89.636	36.972	1.00	0.00	N
ATOM	1222	HN	ILE	127	47.563	90.002	37.103	1.00	0.00	H
ATOM	1223	CA	ILE	127	45.553	90.568	37.085	1.00	0.00	C
ATOM	1224	CB	ILE	127	46.168	91.921	37.197	1.00	0.00	C
ATOM	1225	CG1	ILE	127	45.231	92.987	37.719	1.00	0.00	C
ATOM	1226	CG2	ILE	127	46.730	92.304	35.827	1.00	0.00	C
ATOM	1227	CD1	ILE	127	46.038	94.271	37.791	1.00	0.00	C
ATOM	1228	C	ILE	127	44.619	90.590	35.905	1.00	0.00	C
ATOM	1229	O	ILE	127	43.456	90.958	36.065	1.00	0.00	O
ATOM	1230	N	GLY	128	45.103	90.301	34.685	1.00	0.00	N
ATOM	1231	HN	GLY	128	46.089	90.056	34.589	1.00	0.00	H
ATOM	1232	CA	GLY	128	44.272	90.326	33.507	1.00	0.00	C
ATOM	1233	C	GLY	128	43.199	89.299	33.639	1.00	0.00	C
ATOM	1234	O	GLY	128	42.121	89.401	33.055	1.00	0.00	O
ATOM	1235	N	TRP	129	43.524	88.248	34.391	1.00	0.00	N
ATOM	1236	HN	TRP	129	44.456	88.250	34.806	1.00	0.00	H
ATOM	1237	CA	TRP	129	42.695	87.117	34.674	1.00	0.00	C
ATOM	1238	CB	TRP	129	43.526	86.100	35.485	1.00	0.00	C
ATOM	1239	CG	TRP	129	42.892	84.937	36.205	1.00	0.00	C
ATOM	1240	CD2	TRP	129	43.626	84.239	37.223	1.00	0.00	C
ATOM	1241	CD1	TRP	129	41.713	84.274	36.049	1.00	0.00	C
ATOM	1242	NE1	TRP	129	41.652	83.218	36.933	1.00	0.00	N
ATOM	1243	HE1	TRP	129	40.869	82.572	37.037	1.00	0.00	H
ATOM	1244	CE2	TRP	129	42.828	83.182	37.653	1.00	0.00	C
ATOM	1245	CE3	TRP	129	44.870	84.462	37.741	1.00	0.00	C
ATOM	1246	CZ2	TRP	129	43.266	82.324	38.623	1.00	0.00	C
ATOM	1247	CZ3	TRP	129	45.310	83.603	38.722	1.00	0.00	C
ATOM	1248	CH2	TRP	129	44.519	82.557	39.151	1.00	0.00	C
ATOM	1249	C	TRP	129	41.480	87.595	35.377	1.00	0.00	C
ATOM	1250	O	TRP	129	40.490	86.877	35.465	1.00	0.00	O
ATOM	1251	N	PHE	130	41.609	88.719	36.089	1.00	0.00	N
ATOM	1252	HN	PHE	130	42.551	89.075	36.254	1.00	0.00	H
ATOM	1253	CA	PHE	130	40.512	89.454	36.634	1.00	0.00	C
ATOM	1254	CB	PHE	130	41.004	90.240	37.862	1.00	0.00	C
ATOM	1255	CG	PHE	130	39.878	90.546	38.783	1.00	0.00	C

ATOM	1256	CD1	PHE	130	39.479	89.597	39.698	1.00	0.00	C
ATOM	1257	CD2	PHE	130	39.243	91.764	38.759	1.00	0.00	C
ATOM	1258	CE1	PHE	130	38.450	89.849	40.571	1.00	0.00	C
ATOM	1259	CE2	PHE	130	38.210	92.022	39.630	1.00	0.00	C
ATOM	1260	CZ	PHE	130	37.813	91.066	40.535	1.00	0.00	C
ATOM	1261	C	PHE	130	40.061	90.453	35.584	1.00	0.00	C
ATOM	1262	O	PHE	130	38.878	90.754	35.445	1.00	0.00	O
ATOM	1263	N	ASP	131	41.034	90.995	34.811	1.00	0.00	N
ATOM	1264	HN	ASP	131	41.970	90.598	34.898	1.00	0.00	H
ATOM	1265	CA	ASP	131	40.868	92.084	33.874	1.00	0.00	C
ATOM	1266	CB	ASP	131	42.173	92.402	33.125	1.00	0.00	C
ATOM	1267	CG	ASP	131	43.164	92.968	34.131	1.00	0.00	C
ATOM	1268	OD1	ASP	131	42.734	93.259	35.275	1.00	0.00	O
ATOM	1269	OD2	ASP	131	44.363	93.118	33.770	1.00	0.00	O
ATOM	1270	C	ASP	131	39.848	91.797	32.847	1.00	0.00	C
ATOM	1271	O	ASP	131	38.923	92.574	32.615	1.00	0.00	O
ATOM	1272	N	VAL	132	39.983	90.656	32.191	1.00	0.00	N
ATOM	1273	HN	VAL	132	40.758	90.019	32.378	1.00	0.00	H
ATOM	1274	CA	VAL	132	39.001	90.363	31.218	1.00	0.00	C
ATOM	1275	CB	VAL	132	39.551	90.293	29.826	1.00	0.00	C
ATOM	1276	CG1	VAL	132	40.075	91.687	29.441	1.00	0.00	C
ATOM	1277	CG2	VAL	132	40.631	89.201	29.785	1.00	0.00	C
ATOM	1278	C	VAL	132	38.609	89.009	31.615	1.00	0.00	C
ATOM	1279	O	VAL	132	39.053	88.511	32.647	1.00	0.00	O
ATOM	1280	N	HIS	133	37.702	88.418	30.847	1.00	0.00	N
ATOM	1281	HN	HIS	133	37.261	88.931	30.084	1.00	0.00	H
ATOM	1282	CA	HIS	133	37.351	87.065	31.098	1.00	0.00	C
ATOM	1283	ND1	HIS	133	39.449	85.529	29.139	1.00	0.00	N
ATOM	1284	HD1	HIS	133	38.576	85.204	28.723	1.00	0.00	H
ATOM	1285	CG	HIS	133	39.618	86.018	30.415	1.00	0.00	C
ATOM	1286	CB	HIS	133	38.525	86.117	31.442	1.00	0.00	C
ATOM	1287	NE2	HIS	133	41.605	86.037	29.340	1.00	0.00	N
ATOM	1288	HE2	HIS	133	42.596	86.164	29.133	1.00	0.00	H
ATOM	1289	CD2	HIS	133	40.944	86.322	30.520	1.00	0.00	C
ATOM	1290	CE1	HIS	133	40.668	85.563	28.540	1.00	0.00	C
ATOM	1291	C	HIS	133	36.351	86.950	32.205	1.00	0.00	C
ATOM	1292	O	HIS	133	36.548	87.438	33.317	1.00	0.00	O
ATOM	1293	N	ASP	134	35.246	86.240	31.907	1.00	0.00	N
ATOM	1294	HN	ASP	134	35.145	85.878	30.959	1.00	0.00	H
ATOM	1295	CA	ASP	134	34.205	85.966	32.851	1.00	0.00	C
ATOM	1296	CB	ASP	134	33.026	85.211	32.215	1.00	0.00	C
ATOM	1297	CG	ASP	134	32.328	86.174	31.259	1.00	0.00	C
ATOM	1298	OD1	ASP	134	31.821	87.224	31.736	1.00	0.00	O
ATOM	1299	OD2	ASP	134	32.291	85.870	30.036	1.00	0.00	O
ATOM	1300	C	ASP	134	34.835	85.098	33.892	1.00	0.00	C
ATOM	1301	O	ASP	134	34.360	84.991	35.021	1.00	0.00	O
ATOM	1302	N	VAL	135	35.915	84.409	33.484	1.00	0.00	N
ATOM	1303	HN	VAL	135	36.190	84.511	32.507	1.00	0.00	H
ATOM	1304	CA	VAL	135	36.716	83.542	34.303	1.00	0.00	C
ATOM	1305	CB	VAL	135	36.939	84.101	35.679	1.00	0.00	C
ATOM	1306	CG1	VAL	135	37.705	83.060	36.509	1.00	0.00	C
ATOM	1307	CG2	VAL	135	37.652	85.459	35.560	1.00	0.00	C
ATOM	1308	C	VAL	135	35.950	82.267	34.461	1.00	0.00	C
ATOM	1309	O	VAL	135	36.544	81.188	34.496	1.00	0.00	O
ATOM	1310	N	GLY	136	34.605	82.364	34.557	1.00	0.00	N
ATOM	1311	HN	GLY	136	34.172	83.284	34.635	1.00	0.00	H
ATOM	1312	CA	GLY	136	33.779	81.194	34.551	1.00	0.00	C
ATOM	1313	C	GLY	136	33.811	80.756	33.136	1.00	0.00	C
ATOM	1314	O	GLY	136	33.998	79.589	32.803	1.00	0.00	O
ATOM	1315	N	GLU	137	33.671	81.771	32.270	1.00	0.00	N
ATOM	1316	HN	GLU	137	33.532	82.702	32.662	1.00	0.00	H
ATOM	1317	CA	GLU	137	33.700	81.660	30.853	1.00	0.00	C
ATOM	1318	CB	GLU	137	33.606	83.073	30.241	1.00	0.00	C
ATOM	1319	CG	GLU	137	34.360	83.291	28.928	1.00	0.00	C
ATOM	1320	CD	GLU	137	33.759	82.413	27.855	1.00	0.00	C
ATOM	1321	OE1	GLU	137	32.962	81.513	28.223	1.00	0.00	O
ATOM	1322	OE2	GLU	137	34.093	82.622	26.659	1.00	0.00	O
ATOM	1323	C	GLU	137	35.026	81.069	30.484	1.00	0.00	C
ATOM	1324	O	GLU	137	35.095	80.237	29.583	1.00	0.00	O
ATOM	1325	N	LEU	138	36.101	81.503	31.179	1.00	0.00	N
ATOM	1326	HN	LEU	138	35.924	82.135	31.960	1.00	0.00	H
ATOM	1327	CA	LEU	138	37.483	81.151	30.915	1.00	0.00	C
ATOM	1328	CB	LEU	138	38.468	82.021	31.745	1.00	0.00	C
ATOM	1329	CG	LEU	138	39.996	81.771	31.575	1.00	0.00	C

ATOM	1330	CD1	LEU	138	40.806	82.897	32.240	1.00	0.00	C
ATOM	1331	CD2	LEU	138	40.465	80.416	32.138	1.00	0.00	C
ATOM	1332	C	LEU	138	37.805	79.712	31.143	1.00	0.00	C
ATOM	1333	O	LEU	138	38.250	79.053	30.216	1.00	0.00	O
ATOM	1334	N	ASN	139	37.584	79.165	32.348	1.00	0.00	N
ATOM	1335	HN	ASN	139	37.159	79.718	33.092	1.00	0.00	H
ATOM	1336	CA	ASN	139	37.950	77.795	32.584	1.00	0.00	C
ATOM	1337	CB	ASN	139	37.736	77.357	34.045	1.00	0.00	C
ATOM	1338	CG	ASN	139	36.304	77.672	34.451	1.00	0.00	C
ATOM	1339	OD1	ASN	139	36.036	78.704	35.066	1.00	0.00	O
ATOM	1340	ND2	ASN	139	35.356	76.769	34.089	1.00	0.00	N
ATOM	1341	1HD2	ASN	139	34.396	76.980	34.361	1.00	0.00	H
ATOM	1342	2HD2	ASN	139	35.578	75.914	33.579	1.00	0.00	H
ATOM	1343	C	ASN	139	37.091	76.992	31.683	1.00	0.00	C
ATOM	1344	O	ASN	139	37.540	75.984	31.142	1.00	0.00	O
ATOM	1345	N	THR	140	35.838	77.456	31.477	1.00	0.00	N
ATOM	1346	HN	THR	140	35.526	78.303	31.951	1.00	0.00	H
ATOM	1347	CA	THR	140	34.949	76.765	30.598	1.00	0.00	C
ATOM	1348	CB	THR	140	33.659	77.489	30.333	1.00	0.00	C
ATOM	1349	OG1	THR	140	32.912	77.632	31.531	1.00	0.00	O
ATOM	1350	HG1	THR	140	33.411	78.123	32.173	1.00	0.00	H
ATOM	1351	CG2	THR	140	32.852	76.694	29.294	1.00	0.00	C
ATOM	1352	C	THR	140	35.679	76.719	29.308	1.00	0.00	C
ATOM	1353	O	THR	140	35.739	75.677	28.669	1.00	0.00	O
ATOM	1354	N	ARG	141	36.307	77.850	28.949	1.00	0.00	N
ATOM	1355	HN	ARG	141	36.212	78.660	29.562	1.00	0.00	H
ATOM	1356	CA	ARG	141	37.102	78.000	27.766	1.00	0.00	C
ATOM	1357	CB	ARG	141	37.587	79.448	27.587	1.00	0.00	C
ATOM	1358	CG	ARG	141	38.884	79.548	26.790	1.00	0.00	C
ATOM	1359	CD	ARG	141	39.290	80.978	26.438	1.00	0.00	C
ATOM	1360	NE	ARG	141	38.509	81.359	25.230	1.00	0.00	N
ATOM	1361	HE	ARG	141	38.904	81.207	24.302	1.00	0.00	H
ATOM	1362	CZ	ARG	141	37.269	81.909	25.356	1.00	0.00	C
ATOM	1363	NH1	ARG	141	36.786	82.209	26.596	1.00	0.00	N
ATOM	1364	1HH1	ARG	141	37.347	82.033	27.429	1.00	0.00	H
ATOM	1365	2HH1	ARG	141	35.858	82.621	26.690	1.00	0.00	H
ATOM	1366	NH2	ARG	141	36.518	82.144	24.241	1.00	0.00	N
ATOM	1367	1HH2	ARG	141	36.879	81.920	23.314	1.00	0.00	H
ATOM	1368	2HH2	ARG	141	35.590	82.556	24.335	1.00	0.00	H
ATOM	1369	C	ARG	141	38.322	77.117	27.792	1.00	0.00	C
ATOM	1370	O	ARG	141	38.719	76.604	26.754	1.00	0.00	O
ATOM	1371	N	LEU	142	38.983	76.914	28.946	1.00	0.00	N
ATOM	1372	HN	LEU	142	38.628	77.311	29.816	1.00	0.00	H
ATOM	1373	CA	LEU	142	40.191	76.136	28.947	1.00	0.00	C
ATOM	1374	CB	LEU	142	40.749	75.993	30.383	1.00	0.00	C
ATOM	1375	CG	LEU	142	42.054	75.183	30.567	1.00	0.00	C
ATOM	1376	CD1	LEU	142	41.877	73.684	30.280	1.00	0.00	C
ATOM	1377	CD2	LEU	142	43.206	75.819	29.777	1.00	0.00	C
ATOM	1378	C	LEU	142	39.850	74.774	28.437	1.00	0.00	C
ATOM	1379	O	LEU	142	40.409	74.341	27.436	1.00	0.00	O
ATOM	1380	N	THR	143	38.892	74.077	29.080	1.00	0.00	N
ATOM	1381	HN	THR	143	38.417	74.492	29.882	1.00	0.00	H
ATOM	1382	CA	THR	143	38.534	72.752	28.645	1.00	0.00	C
ATOM	1383	CB	THR	143	37.754	71.979	29.667	1.00	0.00	C
ATOM	1384	OG1	THR	143	36.543	72.646	29.989	1.00	0.00	O
ATOM	1385	HG1	THR	143	36.002	72.743	29.214	1.00	0.00	H
ATOM	1386	CG2	THR	143	38.628	71.823	30.919	1.00	0.00	C
ATOM	1387	C	THR	143	37.744	72.788	27.387	1.00	0.00	C
ATOM	1388	O	THR	143	38.018	72.033	26.460	1.00	0.00	O
ATOM	1389	N	ASP	144	36.749	73.682	27.306	1.00	0.00	N
ATOM	1390	HN	ASP	144	36.605	74.357	28.057	1.00	0.00	H
ATOM	1391	CA	ASP	144	35.890	73.685	26.162	1.00	0.00	C
ATOM	1392	CB	ASP	144	34.803	74.767	26.260	1.00	0.00	C
ATOM	1393	CG	ASP	144	33.741	74.504	25.207	1.00	0.00	C
ATOM	1394	OD1	ASP	144	34.108	74.100	24.072	1.00	0.00	O
ATOM	1395	OD2	ASP	144	32.542	74.714	25.530	1.00	0.00	O
ATOM	1396	C	ASP	144	36.723	73.974	24.955	1.00	0.00	C
ATOM	1397	O	ASP	144	36.630	73.258	23.963	1.00	0.00	O
ATOM	1398	N	ASP	145	37.565	75.027	25.012	1.00	0.00	N
ATOM	1399	HN	ASP	145	37.633	75.566	25.875	1.00	0.00	H
ATOM	1400	CA	ASP	145	38.365	75.403	23.887	1.00	0.00	C
ATOM	1401	CB	ASP	145	39.042	76.774	24.039	1.00	0.00	C
ATOM	1402	CG	ASP	145	37.930	77.812	23.950	1.00	0.00	C
ATOM	1403	OD1	ASP	145	36.817	77.530	24.468	1.00	0.00	O

ATOM	1404	OD2	ASP	145	38.178	78.899	23.363	1.00	0.00	O
ATOM	1405	C	ASP	145	39.401	74.370	23.605	1.00	0.00	C
ATOM	1406	O	ASP	145	39.501	73.942	22.460	1.00	0.00	O
ATOM	1407	N	VAL	146	40.150	73.891	24.629	1.00	0.00	N
ATOM	1408	HN	VAL	146	39.977	74.205	25.584	1.00	0.00	H
ATOM	1409	CA	VAL	146	41.191	72.935	24.356	1.00	0.00	C
ATOM	1410	CB	VAL	146	41.932	72.400	25.548	1.00	0.00	C
ATOM	1411	CG1	VAL	146	42.704	73.553	26.190	1.00	0.00	C
ATOM	1412	CG2	VAL	146	40.962	71.678	26.491	1.00	0.00	C
ATOM	1413	C	VAL	146	40.547	71.763	23.676	1.00	0.00	C
ATOM	1414	O	VAL	146	41.059	71.291	22.665	1.00	0.00	O
ATOM	1415	N	SER	147	39.371	71.328	24.177	1.00	0.00	N
ATOM	1416	HN	SER	147	38.988	71.824	24.981	1.00	0.00	H
ATOM	1417	CA	SER	147	38.617	70.213	23.658	1.00	0.00	C
ATOM	1418	CB	SER	147	37.334	69.947	24.469	1.00	0.00	C
ATOM	1419	OG	SER	147	37.660	69.564	25.797	1.00	0.00	O
ATOM	1420	HG	SER	147	36.869	69.400	26.297	1.00	0.00	H
ATOM	1421	C	SER	147	38.187	70.514	22.242	1.00	0.00	C
ATOM	1422	O	SER	147	38.345	69.685	21.351	1.00	0.00	O
ATOM	1423	N	LYS	148	37.675	71.732	21.979	1.00	0.00	N
ATOM	1424	HN	LYS	148	37.664	72.426	22.727	1.00	0.00	H
ATOM	1425	CA	LYS	148	37.143	72.102	20.696	1.00	0.00	C
ATOM	1426	CB	LYS	148	36.698	73.572	20.636	1.00	0.00	C
ATOM	1427	CG	LYS	148	35.954	73.936	19.348	1.00	0.00	C
ATOM	1428	CD	LYS	148	35.480	75.390	19.308	1.00	0.00	C
ATOM	1429	CE	LYS	148	34.746	75.827	20.575	1.00	0.00	C
ATOM	1430	NZ	LYS	148	34.586	77.296	20.576	1.00	0.00	N
ATOM	1431	HZ1	LYS	148	34.096	77.588	21.422	1.00	0.00	H
ATOM	1432	HZ2	LYS	148	34.126	77.633	19.730	1.00	0.00	H
ATOM	1433	HZ3	LYS	148	35.477	77.780	20.462	1.00	0.00	H
ATOM	1434	C	LYS	148	38.237	71.961	19.691	1.00	0.00	C
ATOM	1435	O	LYS	148	37.990	71.674	18.520	1.00	0.00	O
ATOM	1436	N	ILE	149	39.481	72.228	20.121	1.00	0.00	N
ATOM	1437	HN	ILE	149	39.618	72.521	21.088	1.00	0.00	H
ATOM	1438	CA	ILE	149	40.614	72.114	19.266	1.00	0.00	C
ATOM	1439	CB	ILE	149	41.856	72.531	19.972	1.00	0.00	C
ATOM	1440	CG1	ILE	149	41.554	73.873	20.650	1.00	0.00	C
ATOM	1441	CG2	ILE	149	43.020	72.574	18.972	1.00	0.00	C
ATOM	1442	CD1	ILE	149	40.715	74.802	19.772	1.00	0.00	C
ATOM	1443	C	ILE	149	40.711	70.663	18.914	1.00	0.00	C
ATOM	1444	O	ILE	149	40.857	70.300	17.748	1.00	0.00	O
ATOM	1445	N	ASN	150	40.553	69.801	19.940	1.00	0.00	N
ATOM	1446	HN	ASN	150	40.343	70.193	20.858	1.00	0.00	H
ATOM	1447	CA	ASN	150	40.658	68.374	19.836	1.00	0.00	C
ATOM	1448	CB	ASN	150	40.302	67.706	21.179	1.00	0.00	C
ATOM	1449	CG	ASN	150	40.775	66.264	21.172	1.00	0.00	C
ATOM	1450	OD1	ASN	150	40.737	65.592	20.144	1.00	0.00	O
ATOM	1451	ND2	ASN	150	41.239	65.772	22.353	1.00	0.00	N
ATOM	1452	1HD2	ASN	150	41.557	64.803	22.348	1.00	0.00	H
ATOM	1453	2HD2	ASN	150	41.271	66.330	23.206	1.00	0.00	H
ATOM	1454	C	ASN	150	39.664	67.912	18.813	1.00	0.00	C
ATOM	1455	O	ASN	150	40.010	67.250	17.836	1.00	0.00	O
ATOM	1456	N	GLU	151	38.402	68.334	18.965	1.00	0.00	N
ATOM	1457	HN	GLU	151	38.175	68.980	19.721	1.00	0.00	H
ATOM	1458	CA	GLU	151	37.369	67.892	18.083	1.00	0.00	C
ATOM	1459	CB	GLU	151	36.026	68.540	18.436	1.00	0.00	C
ATOM	1460	CG	GLU	151	34.834	67.936	17.707	1.00	0.00	C
ATOM	1461	CD	GLU	151	33.591	68.463	18.405	1.00	0.00	C
ATOM	1462	OE1	GLU	151	33.546	68.386	19.662	1.00	0.00	O
ATOM	1463	OE2	GLU	151	32.673	68.954	17.695	1.00	0.00	O
ATOM	1464	C	GLU	151	37.761	68.326	16.700	1.00	0.00	C
ATOM	1465	O	GLU	151	37.583	67.572	15.748	1.00	0.00	O
ATOM	1466	N	GLY	152	38.369	69.525	16.560	1.00	0.00	N
ATOM	1467	HN	GLY	152	38.587	70.067	17.396	1.00	0.00	H
ATOM	1468	CA	GLY	152	38.718	70.062	15.276	1.00	0.00	C
ATOM	1469	C	GLY	152	39.614	69.099	14.557	1.00	0.00	C
ATOM	1470	O	GLY	152	39.475	68.905	13.350	1.00	0.00	O
ATOM	1471	N	ILE	153	40.587	68.501	15.268	1.00	0.00	N
ATOM	1472	HN	ILE	153	40.655	68.667	16.272	1.00	0.00	H
ATOM	1473	CA	ILE	153	41.531	67.630	14.622	1.00	0.00	C
ATOM	1474	CB	ILE	153	42.680	67.337	15.527	1.00	0.00	C
ATOM	1475	CG1	ILE	153	43.322	68.671	15.935	1.00	0.00	C
ATOM	1476	CG2	ILE	153	43.636	66.375	14.798	1.00	0.00	C
ATOM	1477	CD1	ILE	153	44.228	68.582	17.155	1.00	0.00	C

ATOM	1478	C	ILE	153	40.961	66.297	14.158	1.00	0.00	C
ATOM	1479	O	ILE	153	41.047	65.971	12.975	1.00	0.00	O
ATOM	1480	N	GLY	154	40.348	65.493	15.060	1.00	0.00	N
ATOM	1481	HN	GLY	154	40.232	65.836	16.014	1.00	0.00	H
ATOM	1482	CA	GLY	154	39.848	64.171	14.740	1.00	0.00	C
ATOM	1483	C	GLY	154	38.688	64.227	13.782	1.00	0.00	C
ATOM	1484	O	GLY	154	38.566	63.359	12.921	1.00	0.00	O
ATOM	1485	N	ASP	155	37.763	65.201	13.931	1.00	0.00	N
ATOM	1486	HN	ASP	155	37.882	65.916	14.649	1.00	0.00	H
ATOM	1487	CA	ASP	155	36.608	65.224	13.070	1.00	0.00	C
ATOM	1488	CB	ASP	155	35.450	66.164	13.492	1.00	0.00	C
ATOM	1489	CG	ASP	155	35.706	67.612	13.096	1.00	0.00	C
ATOM	1490	OD1	ASP	155	35.537	67.909	11.883	1.00	0.00	O
ATOM	1491	OD2	ASP	155	36.026	68.449	13.977	1.00	0.00	O
ATOM	1492	C	ASP	155	37.048	65.633	11.708	1.00	0.00	C
ATOM	1493	O	ASP	155	36.510	65.144	10.721	1.00	0.00	O
ATOM	1494	N	LYS	156	38.063	66.520	11.628	1.00	0.00	N
ATOM	1495	HN	LYS	156	38.492	66.851	12.492	1.00	0.00	H
ATOM	1496	CA	LYS	156	38.564	67.017	10.379	1.00	0.00	C
ATOM	1497	CB	LYS	156	39.919	67.714	10.515	1.00	0.00	C
ATOM	1498	CG	LYS	156	40.546	68.019	9.154	1.00	0.00	C
ATOM	1499	CD	LYS	156	42.034	68.345	9.249	1.00	0.00	C
ATOM	1500	CE	LYS	156	42.881	67.073	9.163	1.00	0.00	C
ATOM	1501	NZ	LYS	156	42.185	65.978	9.877	1.00	0.00	N
ATOM	1502	HZ1	LYS	156	42.749	65.130	9.820	1.00	0.00	H
ATOM	1503	HZ2	LYS	156	41.235	65.835	9.535	1.00	0.00	H
ATOM	1504	HZ3	LYS	156	41.956	66.227	10.839	1.00	0.00	H
ATOM	1505	C	LYS	156	38.899	65.809	9.580	1.00	0.00	C
ATOM	1506	O	LYS	156	38.712	65.771	8.363	1.00	0.00	O
ATOM	1507	N	ILE	157	39.402	64.773	10.268	1.00	0.00	N
ATOM	1508	HN	ILE	157	39.479	64.802	11.285	1.00	0.00	H
ATOM	1509	CA	ILE	157	39.825	63.630	9.529	1.00	0.00	C
ATOM	1510	CB	ILE	157	40.465	62.556	10.368	1.00	0.00	C
ATOM	1511	CG1	ILE	157	39.495	61.588	11.070	1.00	0.00	C
ATOM	1512	CG2	ILE	157	41.259	63.360	11.402	1.00	0.00	C
ATOM	1513	CD1	ILE	157	38.968	60.468	10.169	1.00	0.00	C
ATOM	1514	C	ILE	157	38.594	63.081	8.885	1.00	0.00	C
ATOM	1515	O	ILE	157	38.569	62.818	7.687	1.00	0.00	O
ATOM	1516	N	GLY	158	37.499	62.990	9.662	1.00	0.00	N
ATOM	1517	HN	GLY	158	37.534	63.359	10.612	1.00	0.00	H
ATOM	1518	CA	GLY	158	36.286	62.390	9.192	1.00	0.00	C
ATOM	1519	C	GLY	158	35.857	63.068	7.926	1.00	0.00	C
ATOM	1520	O	GLY	158	35.496	62.394	6.963	1.00	0.00	O
ATOM	1521	N	MET	159	35.922	64.413	7.871	1.00	0.00	N
ATOM	1522	HN	MET	159	36.293	64.934	8.665	1.00	0.00	H
ATOM	1523	CA	MET	159	35.473	65.119	6.704	1.00	0.00	C
ATOM	1524	CB	MET	159	35.624	66.646	6.840	1.00	0.00	C
ATOM	1525	CG	MET	159	35.058	67.460	5.673	1.00	0.00	C
ATOM	1526	SD	MET	159	36.058	67.449	4.152	1.00	0.00	S
ATOM	1527	CE	MET	159	37.331	68.600	4.747	1.00	0.00	C
ATOM	1528	C	MET	159	36.280	64.718	5.512	1.00	0.00	C
ATOM	1529	O	MET	159	35.708	64.376	4.478	1.00	0.00	O
ATOM	1530	N	PHE	160	37.620	64.674	5.651	1.00	0.00	N
ATOM	1531	HN	PHE	160	38.018	64.807	6.581	1.00	0.00	H
ATOM	1532	CA	PHE	160	38.517	64.448	4.545	1.00	0.00	C
ATOM	1533	CB	PHE	160	39.962	64.219	5.023	1.00	0.00	C
ATOM	1534	CG	PHE	160	40.897	64.402	3.877	1.00	0.00	C
ATOM	1535	CD1	PHE	160	41.049	63.432	2.914	1.00	0.00	C
ATOM	1536	CD2	PHE	160	41.641	65.557	3.782	1.00	0.00	C
ATOM	1537	CE1	PHE	160	41.920	63.619	1.866	1.00	0.00	C
ATOM	1538	CE2	PHE	160	42.513	65.748	2.737	1.00	0.00	C
ATOM	1539	CZ	PHE	160	42.654	64.777	1.774	1.00	0.00	C
ATOM	1540	C	PHE	160	38.049	63.189	3.901	1.00	0.00	C
ATOM	1541	O	PHE	160	37.801	63.145	2.696	1.00	0.00	O
ATOM	1542	N	PHE	161	37.786	62.175	4.740	1.00	0.00	N
ATOM	1543	HN	PHE	161	37.941	62.302	5.740	1.00	0.00	H
ATOM	1544	CA	PHE	161	37.294	60.922	4.264	1.00	0.00	C
ATOM	1545	CB	PHE	161	37.026	59.981	5.459	1.00	0.00	C
ATOM	1546	CG	PHE	161	35.858	59.086	5.223	1.00	0.00	C
ATOM	1547	CD1	PHE	161	35.773	58.254	4.133	1.00	0.00	C
ATOM	1548	CD2	PHE	161	34.852	59.056	6.162	1.00	0.00	C
ATOM	1549	CE1	PHE	161	34.675	57.440	3.971	1.00	0.00	C
ATOM	1550	CE2	PHE	161	33.755	58.243	6.008	1.00	0.00	C
ATOM	1551	CZ	PHE	161	33.664	57.434	4.903	1.00	0.00	C

ATOM	1552	C	PHE	161	36.045	61.120	3.441	1.00	0.00	C
ATOM	1553	O	PHE	161	36.012	60.768	2.264	1.00	0.00	O
ATOM	1554	N	GLN	162	35.002	61.759	3.989	1.00	0.00	N
ATOM	1555	HN	GLN	162	35.083	62.165	4.921	1.00	0.00	H
ATOM	1556	CA	GLN	162	33.766	61.870	3.258	1.00	0.00	C
ATOM	1557	CB	GLN	162	32.633	62.477	4.103	1.00	0.00	C
ATOM	1558	CG	GLN	162	31.263	62.442	3.422	1.00	0.00	C
ATOM	1559	CD	GLN	162	30.769	61.001	3.422	1.00	0.00	C
ATOM	1560	OE1	GLN	162	31.308	60.146	2.722	1.00	0.00	O
ATOM	1561	NE2	GLN	162	29.712	60.722	4.231	1.00	0.00	N
ATOM	1562	1HE2	GLN	162	29.381	59.757	4.231	1.00	0.00	H
ATOM	1563	2HE2	GLN	162	29.265	61.431	4.812	1.00	0.00	H
ATOM	1564	C	GLN	162	33.947	62.713	2.033	1.00	0.00	C
ATOM	1565	O	GLN	162	33.365	62.423	0.989	1.00	0.00	O
ATOM	1566	N	SER	163	34.776	63.772	2.119	1.00	0.00	N
ATOM	1567	HN	SER	163	35.308	63.934	2.974	1.00	0.00	H
ATOM	1568	CA	SER	163	34.911	64.671	1.012	1.00	0.00	C
ATOM	1569	CB	SER	163	35.925	65.800	1.258	1.00	0.00	C
ATOM	1570	OG	SER	163	37.237	65.268	1.346	1.00	0.00	O
ATOM	1571	HG	SER	163	37.864	65.966	1.498	1.00	0.00	H
ATOM	1572	C	SER	163	35.363	63.882	-0.178	1.00	0.00	C
ATOM	1573	O	SER	163	35.000	64.191	-1.310	1.00	0.00	O
ATOM	1574	N	MET	164	36.211	62.867	0.055	1.00	0.00	N
ATOM	1575	HN	MET	164	36.511	62.695	1.014	1.00	0.00	H
ATOM	1576	CA	MET	164	36.715	62.012	-0.985	1.00	0.00	C
ATOM	1577	CB	MET	164	37.958	61.234	-0.535	1.00	0.00	C
ATOM	1578	CG	MET	164	38.844	60.891	-1.723	1.00	0.00	C
ATOM	1579	SD	MET	164	39.595	62.372	-2.469	1.00	0.00	S
ATOM	1580	CE	MET	164	40.807	62.666	-1.152	1.00	0.00	C
ATOM	1581	C	MET	164	35.702	61.023	-1.491	1.00	0.00	C
ATOM	1582	O	MET	164	35.704	60.681	-2.673	1.00	0.00	O
ATOM	1583	N	ALA	165	34.836	60.485	-0.607	1.00	0.00	N
ATOM	1584	HN	ALA	165	34.853	60.777	0.370	1.00	0.00	H
ATOM	1585	CA	ALA	165	33.888	59.497	-1.050	1.00	0.00	C
ATOM	1586	CB	ALA	165	32.986	58.966	0.077	1.00	0.00	C
ATOM	1587	C	ALA	165	33.004	60.169	-2.035	1.00	0.00	C
ATOM	1588	O	ALA	165	32.619	59.573	-3.035	1.00	0.00	O
ATOM	1589	N	THR	166	32.639	61.426	-1.729	1.00	0.00	N
ATOM	1590	HN	THR	166	32.977	61.813	-0.848	1.00	0.00	H
ATOM	1591	CA	THR	166	31.811	62.264	-2.547	1.00	0.00	C
ATOM	1592	CB	THR	166	31.730	63.649	-1.968	1.00	0.00	C
ATOM	1593	OG1	THR	166	31.212	63.657	-0.650	1.00	0.00	O
ATOM	1594	HG1	THR	166	31.161	64.532	-0.284	1.00	0.00	H
ATOM	1595	CG2	THR	166	30.900	64.525	-2.905	1.00	0.00	C
ATOM	1596	C	THR	166	32.508	62.541	-3.835	1.00	0.00	C
ATOM	1597	O	THR	166	32.009	62.248	-4.921	1.00	0.00	O
ATOM	1598	N	PHE	167	33.722	63.103	-3.716	1.00	0.00	N
ATOM	1599	HN	PHE	167	34.149	63.185	-2.793	1.00	0.00	H
ATOM	1600	CA	PHE	167	34.425	63.588	-4.864	1.00	0.00	C
ATOM	1601	CB	PHE	167	35.792	64.188	-4.478	1.00	0.00	C
ATOM	1602	CG	PHE	167	36.487	64.731	-5.684	1.00	0.00	C
ATOM	1603	CD1	PHE	167	36.282	66.033	-6.075	1.00	0.00	C
ATOM	1604	CD2	PHE	167	37.348	63.949	-6.422	1.00	0.00	C
ATOM	1605	CE1	PHE	167	36.919	66.548	-7.180	1.00	0.00	C
ATOM	1606	CE2	PHE	167	37.988	64.457	-7.529	1.00	0.00	C
ATOM	1607	CZ	PHE	167	37.774	65.760	-7.910	1.00	0.00	C
ATOM	1608	C	PHE	167	34.652	62.460	-5.808	1.00	0.00	C
ATOM	1609	O	PHE	167	34.188	62.492	-6.945	1.00	0.00	O
ATOM	1610	N	PHE	168	35.319	61.397	-5.334	1.00	0.00	N
ATOM	1611	HN	PHE	168	35.614	61.382	-4.358	1.00	0.00	H
ATOM	1612	CA	PHE	168	35.622	60.285	-6.181	1.00	0.00	C
ATOM	1613	CB	PHE	168	36.581	59.240	-5.583	1.00	0.00	C
ATOM	1614	CG	PHE	168	37.967	59.769	-5.712	1.00	0.00	C
ATOM	1615	CD1	PHE	168	38.473	60.062	-6.957	1.00	0.00	C
ATOM	1616	CD2	PHE	168	38.779	59.924	-4.615	1.00	0.00	C
ATOM	1617	CE1	PHE	168	39.752	60.541	-7.112	1.00	0.00	C
ATOM	1618	CE2	PHE	168	40.061	60.400	-4.766	1.00	0.00	C
ATOM	1619	CZ	PHE	168	40.551	60.714	-6.009	1.00	0.00	C
ATOM	1620	C	PHE	168	34.383	59.568	-6.587	1.00	0.00	C
ATOM	1621	O	PHE	168	34.329	59.075	-7.704	1.00	0.00	O
ATOM	1622	N	THR	169	33.365	59.425	-5.718	1.00	0.00	N
ATOM	1623	HN	THR	169	33.390	59.828	-4.781	1.00	0.00	H
ATOM	1624	CA	THR	169	32.239	58.666	-6.196	1.00	0.00	C
ATOM	1625	CB	THR	169	31.118	58.447	-5.195	1.00	0.00	C

ATOM	1626	OG1	THR	169	30.116	57.653	-5.813	1.00	0.00	O
ATOM	1627	HG1	THR	169	30.514	56.848	-6.123	1.00	0.00	H
ATOM	1628	CG2	THR	169	30.471	59.755	-4.691	1.00	0.00	C
ATOM	1629	C	THR	169	31.635	59.324	-7.399	1.00	0.00	C
ATOM	1630	O	THR	169	31.676	58.774	-8.498	1.00	0.00	O
ATOM	1631	N	GLY	170	31.205	60.585	-7.249	1.00	0.00	N
ATOM	1632	HN	GLY	170	31.390	61.064	-6.368	1.00	0.00	H
ATOM	1633	CA	GLY	170	30.501	61.281	-8.271	1.00	0.00	C
ATOM	1634	C	GLY	170	31.394	61.326	-9.452	1.00	0.00	C
ATOM	1635	O	GLY	170	30.927	61.488	-10.575	1.00	0.00	O
ATOM	1636	N	PHE	171	32.715	61.365	-9.212	1.00	0.00	N
ATOM	1637	HN	PHE	171	33.072	61.394	-8.257	1.00	0.00	H
ATOM	1638	CA	PHE	171	33.606	61.365	-10.326	1.00	0.00	C
ATOM	1639	CB	PHE	171	35.022	61.829	-9.947	1.00	0.00	C
ATOM	1640	CG	PHE	171	35.848	61.802	-11.187	1.00	0.00	C
ATOM	1641	CD1	PHE	171	35.765	62.825	-12.103	1.00	0.00	C
ATOM	1642	CD2	PHE	171	36.713	60.761	-11.432	1.00	0.00	C
ATOM	1643	CE1	PHE	171	36.526	62.806	-13.249	1.00	0.00	C
ATOM	1644	CE2	PHE	171	37.476	60.736	-12.576	1.00	0.00	C
ATOM	1645	CZ	PHE	171	37.383	61.760	-13.487	1.00	0.00	C
ATOM	1646	C	PHE	171	33.729	60.029	-10.979	1.00	0.00	C
ATOM	1647	O	PHE	171	33.164	59.824	-12.042	1.00	0.00	O
ATOM	1648	N	ILE	172	34.307	59.032	-10.271	1.00	0.00	N
ATOM	1649	HN	ILE	172	34.495	59.181	-9.280	1.00	0.00	H
ATOM	1650	CA	ILE	172	34.666	57.773	-10.860	1.00	0.00	C
ATOM	1651	CB	ILE	172	35.197	56.779	-9.870	1.00	0.00	C
ATOM	1652	CG1	ILE	172	36.635	57.148	-9.464	1.00	0.00	C
ATOM	1653	CG2	ILE	172	35.059	55.378	-10.490	1.00	0.00	C
ATOM	1654	CD1	ILE	172	36.772	58.511	-8.796	1.00	0.00	C
ATOM	1655	C	ILE	172	33.460	57.190	-11.500	1.00	0.00	C
ATOM	1656	O	ILE	172	33.472	56.937	-12.699	1.00	0.00	O
ATOM	1657	N	VAL	173	32.359	57.024	-10.762	1.00	0.00	N
ATOM	1658	HN	VAL	173	32.347	57.255	-9.769	1.00	0.00	H
ATOM	1659	CA	VAL	173	31.196	56.509	-11.420	1.00	0.00	C
ATOM	1660	CB	VAL	173	30.137	56.048	-10.463	1.00	0.00	C
ATOM	1661	CG1	VAL	173	30.705	54.860	-9.669	1.00	0.00	C
ATOM	1662	CG2	VAL	173	29.687	57.231	-9.589	1.00	0.00	C
ATOM	1663	C	VAL	173	30.593	57.555	-12.301	1.00	0.00	C
ATOM	1664	O	VAL	173	30.252	57.299	-13.453	1.00	0.00	O
ATOM	1665	N	GLY	174	30.524	58.793	-11.789	1.00	0.00	N
ATOM	1666	HN	GLY	174	31.011	58.985	-10.913	1.00	0.00	H
ATOM	1667	CA	GLY	174	29.800	59.856	-12.414	1.00	0.00	C
ATOM	1668	C	GLY	174	30.289	60.135	-13.792	1.00	0.00	C
ATOM	1669	O	GLY	174	29.553	60.727	-14.567	1.00	0.00	O
ATOM	1670	N	PHE	175	31.583	59.995	-14.080	1.00	0.00	N
ATOM	1671	HN	PHE	175	32.242	59.833	-13.319	1.00	0.00	H
ATOM	1672	CA	PHE	175	32.080	60.064	-15.423	1.00	0.00	C
ATOM	1673	CB	PHE	175	33.418	60.831	-15.430	1.00	0.00	C
ATOM	1674	CG	PHE	175	34.032	60.879	-16.786	1.00	0.00	C
ATOM	1675	CD1	PHE	175	33.487	61.646	-17.788	1.00	0.00	C
ATOM	1676	CD2	PHE	175	35.192	60.181	-17.036	1.00	0.00	C
ATOM	1677	CE1	PHE	175	34.075	61.690	-19.030	1.00	0.00	C
ATOM	1678	CE2	PHE	175	35.784	60.222	-18.276	1.00	0.00	C
ATOM	1679	CZ	PHE	175	35.223	60.977	-19.277	1.00	0.00	C
ATOM	1680	C	PHE	175	32.280	58.727	-16.095	1.00	0.00	C
ATOM	1681	O	PHE	175	31.739	58.447	-17.163	1.00	0.00	O
ATOM	1682	N	THR	176	33.012	57.815	-15.414	1.00	0.00	N
ATOM	1683	HN	THR	176	33.189	57.942	-14.418	1.00	0.00	H
ATOM	1684	CA	THR	176	33.540	56.665	-16.100	1.00	0.00	C
ATOM	1685	CB	THR	176	34.417	55.757	-15.284	1.00	0.00	C
ATOM	1686	OG1	THR	176	33.648	54.999	-14.362	1.00	0.00	O
ATOM	1687	HG1	THR	176	34.202	54.425	-13.846	1.00	0.00	H
ATOM	1688	CG2	THR	176	35.466	56.614	-14.552	1.00	0.00	C
ATOM	1689	C	THR	176	32.461	55.806	-16.639	1.00	0.00	C
ATOM	1690	O	THR	176	32.546	55.356	-17.780	1.00	0.00	O
ATOM	1691	N	ARG	177	31.404	55.550	-15.854	1.00	0.00	N
ATOM	1692	HN	ARG	177	31.274	55.995	-14.946	1.00	0.00	H
ATOM	1693	CA	ARG	177	30.476	54.608	-16.386	1.00	0.00	C
ATOM	1694	CB	ARG	177	29.958	53.624	-15.329	1.00	0.00	C
ATOM	1695	CG	ARG	177	31.101	52.849	-14.666	1.00	0.00	C
ATOM	1696	CD	ARG	177	31.587	51.616	-15.437	1.00	0.00	C
ATOM	1697	NE	ARG	177	32.179	52.051	-16.733	1.00	0.00	N
ATOM	1698	HE	ARG	177	33.157	52.336	-16.780	1.00	0.00	H
ATOM	1699	CZ	ARG	177	31.404	52.066	-17.857	1.00	0.00	C

ATOM	1700	NH1	ARG	177	30.086	51.723	-17.774	1.00	0.00	N
ATOM	1701	1HH1	ARG	177	29.686	51.456	-16.874	1.00	0.00	H
ATOM	1702	2HH1	ARG	177	29.507	51.734	-18.614	1.00	0.00	H
ATOM	1703	NH2	ARG	177	31.939	52.423	-19.061	1.00	0.00	N
ATOM	1704	1HH2	ARG	177	32.924	52.679	-19.123	1.00	0.00	H
ATOM	1705	2HH2	ARG	177	31.360	52.434	-19.901	1.00	0.00	H
ATOM	1706	C	ARG	177	29.330	55.322	-16.997	1.00	0.00	C
ATOM	1707	O	ARG	177	28.508	55.902	-16.296	1.00	0.00	O
ATOM	1708	N	GLY	178	29.198	55.214	-18.332	1.00	0.00	N
ATOM	1709	HN	GLY	178	29.849	54.636	-18.864	1.00	0.00	H
ATOM	1710	CA	GLY	178	28.143	55.911	-19.004	1.00	0.00	C
ATOM	1711	C	GLY	178	28.651	56.593	-20.231	1.00	0.00	C
ATOM	1712	O	GLY	178	27.985	56.503	-21.260	1.00	0.00	O
ATOM	1713	N	TRP	179	29.850	57.218	-20.192	1.00	0.00	N
ATOM	1714	HN	TRP	179	30.398	57.211	-19.332	1.00	0.00	H
ATOM	1715	CA	TRP	179	30.358	57.895	-21.363	1.00	0.00	C
ATOM	1716	CB	TRP	179	30.659	56.918	-22.513	1.00	0.00	C
ATOM	1717	CG	TRP	179	31.668	55.837	-22.208	1.00	0.00	C
ATOM	1718	CD2	TRP	179	31.668	54.566	-22.872	1.00	0.00	C
ATOM	1719	CD1	TRP	179	32.679	55.792	-21.290	1.00	0.00	C
ATOM	1720	NE1	TRP	179	33.304	54.567	-21.344	1.00	0.00	N
ATOM	1721	HE1	TRP	179	34.090	54.274	-20.764	1.00	0.00	H
ATOM	1722	CE2	TRP	179	32.690	53.801	-22.314	1.00	0.00	C
ATOM	1723	CE3	TRP	179	30.867	54.070	-23.861	1.00	0.00	C
ATOM	1724	CZ2	TRP	179	32.930	52.524	-22.737	1.00	0.00	C
ATOM	1725	CZ3	TRP	179	31.122	52.788	-24.294	1.00	0.00	C
ATOM	1726	CH2	TRP	179	32.133	52.026	-23.745	1.00	0.00	C
ATOM	1727	C	TRP	179	29.270	58.798	-21.883	1.00	0.00	C
ATOM	1728	O	TRP	179	28.729	58.564	-22.960	1.00	0.00	O
ATOM	1729	N	LYS	180	28.910	59.835	-21.111	1.00	0.00	N
ATOM	1730	HN	LYS	180	29.434	59.984	-20.249	1.00	0.00	H
ATOM	1731	CA	LYS	180	27.842	60.752	-21.406	1.00	0.00	C
ATOM	1732	CB	LYS	180	27.678	61.099	-22.897	1.00	0.00	C
ATOM	1733	CG	LYS	180	28.887	61.785	-23.530	1.00	0.00	C
ATOM	1734	CD	LYS	180	29.993	60.807	-23.920	1.00	0.00	C
ATOM	1735	CE	LYS	180	29.605	59.972	-25.143	1.00	0.00	C
ATOM	1736	NZ	LYS	180	30.598	58.903	-25.379	1.00	0.00	N
ATOM	1737	HZ1	LYS	180	30.339	58.347	-26.194	1.00	0.00	H
ATOM	1738	HZ2	LYS	180	30.733	58.322	-24.551	1.00	0.00	H
ATOM	1739	HZ3	LYS	180	31.544	59.276	-25.460	1.00	0.00	H
ATOM	1740	C	LYS	180	26.532	60.154	-20.972	1.00	0.00	C
ATOM	1741	O	LYS	180	25.527	60.861	-20.919	1.00	0.00	O
ATOM	1742	N	LEU	181	26.479	58.832	-20.699	1.00	0.00	N
ATOM	1743	HN	LEU	181	27.274	58.241	-20.941	1.00	0.00	H
ATOM	1744	CA	LEU	181	25.326	58.237	-20.074	1.00	0.00	C
ATOM	1745	CB	LEU	181	25.265	56.703	-20.235	1.00	0.00	C
ATOM	1746	CG	LEU	181	24.091	56.014	-19.498	1.00	0.00	C
ATOM	1747	CD1	LEU	181	24.337	55.903	-17.985	1.00	0.00	C
ATOM	1748	CD2	LEU	181	22.757	56.709	-19.802	1.00	0.00	C
ATOM	1749	C	LEU	181	25.446	58.552	-18.635	1.00	0.00	C
ATOM	1750	O	LEU	181	24.480	58.864	-17.945	1.00	0.00	O
ATOM	1751	N	THR	182	26.698	58.461	-18.165	1.00	0.00	N
ATOM	1752	HN	THR	182	27.432	58.158	-18.806	1.00	0.00	H
ATOM	1753	CA	THR	182	27.062	58.763	-16.822	1.00	0.00	C
ATOM	1754	CB	THR	182	28.512	58.573	-16.570	1.00	0.00	C
ATOM	1755	OG1	THR	182	28.688	58.380	-15.182	1.00	0.00	O
ATOM	1756	HG1	THR	182	29.616	58.258	-15.021	1.00	0.00	H
ATOM	1757	CG2	THR	182	29.341	59.749	-17.107	1.00	0.00	C
ATOM	1758	C	THR	182	26.788	60.211	-16.716	1.00	0.00	C
ATOM	1759	O	THR	182	26.607	60.755	-15.628	1.00	0.00	O
ATOM	1760	N	LEU	183	26.891	60.863	-17.888	1.00	0.00	N
ATOM	1761	HN	LEU	183	27.214	60.327	-18.694	1.00	0.00	H
ATOM	1762	CA	LEU	183	26.588	62.236	-18.098	1.00	0.00	C
ATOM	1763	CB	LEU	183	27.109	62.813	-19.424	1.00	0.00	C
ATOM	1764	CG	LEU	183	28.620	63.110	-19.406	1.00	0.00	C
ATOM	1765	CD1	LEU	183	28.945	64.225	-18.397	1.00	0.00	C
ATOM	1766	CD2	LEU	183	29.452	61.837	-19.186	1.00	0.00	C
ATOM	1767	C	LEU	183	25.120	62.410	-18.062	1.00	0.00	C
ATOM	1768	O	LEU	183	24.655	63.482	-17.710	1.00	0.00	O
ATOM	1769	N	VAL	184	24.339	61.402	-18.486	1.00	0.00	N
ATOM	1770	HN	VAL	184	24.745	60.560	-18.895	1.00	0.00	H
ATOM	1771	CA	VAL	184	22.924	61.543	-18.347	1.00	0.00	C
ATOM	1772	CB	VAL	184	22.152	60.319	-18.738	1.00	0.00	C
ATOM	1773	CG1	VAL	184	20.665	60.570	-18.431	1.00	0.00	C

ATOM	1774	CG2	VAL	184	22.446	60.004	-20.214	1.00	0.00	C
ATOM	1775	C	VAL	184	22.752	61.718	-16.883	1.00	0.00	C
ATOM	1776	O	VAL	184	21.963	62.544	-16.427	1.00	0.00	O
ATOM	1777	N	ILE	185	23.549	60.959	-16.109	1.00	0.00	N
ATOM	1778	HN	ILE	185	24.194	60.289	-16.528	1.00	0.00	H
ATOM	1779	CA	ILE	185	23.476	61.108	-14.691	1.00	0.00	C
ATOM	1780	CB	ILE	185	24.459	60.293	-13.905	1.00	0.00	C
ATOM	1781	CG1	ILE	185	24.204	58.782	-13.995	1.00	0.00	C
ATOM	1782	CG2	ILE	185	24.400	60.832	-12.468	1.00	0.00	C
ATOM	1783	CD1	ILE	185	24.610	58.145	-15.315	1.00	0.00	C
ATOM	1784	C	ILE	185	23.856	62.498	-14.347	1.00	0.00	C
ATOM	1785	O	ILE	185	23.027	63.239	-13.830	1.00	0.00	O
ATOM	1786	N	LEU	186	25.065	62.922	-14.768	1.00	0.00	N
ATOM	1787	HN	LEU	186	25.601	62.337	-15.409	1.00	0.00	H
ATOM	1788	CA	LEU	186	25.618	64.174	-14.338	1.00	0.00	C
ATOM	1789	CB	LEU	186	26.947	64.506	-15.038	1.00	0.00	C
ATOM	1790	CG	LEU	186	28.036	63.443	-14.803	1.00	0.00	C
ATOM	1791	CD1	LEU	186	29.393	63.893	-15.368	1.00	0.00	C
ATOM	1792	CD2	LEU	186	28.101	63.027	-13.325	1.00	0.00	C
ATOM	1793	C	LEU	186	24.637	65.246	-14.683	1.00	0.00	C
ATOM	1794	O	LEU	186	24.422	66.177	-13.911	1.00	0.00	O
ATOM	1795	N	ALA	187	24.024	65.163	-15.872	1.00	0.00	N
ATOM	1796	HN	ALA	187	24.219	64.387	-16.505	1.00	0.00	H
ATOM	1797	CA	ALA	187	23.095	66.180	-16.234	1.00	0.00	C
ATOM	1798	CB	ALA	187	22.676	66.088	-17.708	1.00	0.00	C
ATOM	1799	C	ALA	187	21.837	66.158	-15.420	1.00	0.00	C
ATOM	1800	O	ALA	187	21.667	66.982	-14.532	1.00	0.00	O
ATOM	1801	N	ILE	188	20.977	65.135	-15.577	1.00	0.00	N
ATOM	1802	HN	ILE	188	21.212	64.325	-16.150	1.00	0.00	H
ATOM	1803	CA	ILE	188	19.716	65.236	-14.902	1.00	0.00	C
ATOM	1804	CB	ILE	188	18.706	64.230	-15.409	1.00	0.00	C
ATOM	1805	CG1	ILE	188	19.211	62.779	-15.321	1.00	0.00	C
ATOM	1806	CG2	ILE	188	18.326	64.642	-16.842	1.00	0.00	C
ATOM	1807	CD1	ILE	188	19.120	62.131	-13.944	1.00	0.00	C
ATOM	1808	C	ILE	188	19.928	65.173	-13.427	1.00	0.00	C
ATOM	1809	O	ILE	188	19.450	66.032	-12.688	1.00	0.00	O
ATOM	1810	N	SER	189	20.727	64.200	-12.967	1.00	0.00	N
ATOM	1811	HN	SER	189	21.212	63.589	-13.624	1.00	0.00	H
ATOM	1812	CA	SER	189	20.903	64.013	-11.564	1.00	0.00	C
ATOM	1813	CB	SER	189	21.675	62.711	-11.241	1.00	0.00	C
ATOM	1814	OG	SER	189	21.628	62.429	-9.851	1.00	0.00	O
ATOM	1815	HG	SER	189	22.102	61.630	-9.653	1.00	0.00	H
ATOM	1816	C	SER	189	21.522	65.249	-10.970	1.00	0.00	C
ATOM	1817	O	SER	189	20.817	65.922	-10.219	1.00	0.00	O
ATOM	1818	N	PRO	190	22.727	65.683	-11.285	1.00	0.00	N
ATOM	1819	CA	PRO	190	23.211	66.867	-10.627	1.00	0.00	C
ATOM	1820	CD	PRO	190	23.831	64.770	-11.555	1.00	0.00	C
ATOM	1821	CB	PRO	190	24.685	66.983	-11.004	1.00	0.00	C
ATOM	1822	CG	PRO	190	25.115	65.510	-11.136	1.00	0.00	C
ATOM	1823	C	PRO	190	22.361	68.083	-10.865	1.00	0.00	C
ATOM	1824	O	PRO	190	22.446	69.007	-10.059	1.00	0.00	O
ATOM	1825	N	VAL	191	21.577	68.140	-11.963	1.00	0.00	N
ATOM	1826	HN	VAL	191	21.608	67.388	-12.651	1.00	0.00	H
ATOM	1827	CA	VAL	191	20.697	69.264	-12.163	1.00	0.00	C
ATOM	1828	CB	VAL	191	20.054	69.305	-13.517	1.00	0.00	C
ATOM	1829	CG1	VAL	191	18.922	70.347	-13.488	1.00	0.00	C
ATOM	1830	CG2	VAL	191	21.140	69.664	-14.543	1.00	0.00	C
ATOM	1831	C	VAL	191	19.598	69.243	-11.149	1.00	0.00	C
ATOM	1832	O	VAL	191	19.307	70.263	-10.528	1.00	0.00	O
ATOM	1833	N	LEU	192	18.950	68.077	-10.947	1.00	0.00	N
ATOM	1834	HN	LEU	192	19.210	67.243	-11.473	1.00	0.00	H
ATOM	1835	CA	LEU	192	17.890	68.027	-9.982	1.00	0.00	C
ATOM	1836	CB	LEU	192	17.190	66.659	-9.882	1.00	0.00	C
ATOM	1837	CG	LEU	192	16.154	66.387	-10.991	1.00	0.00	C
ATOM	1838	CD1	LEU	192	14.923	67.292	-10.826	1.00	0.00	C
ATOM	1839	CD2	LEU	192	16.766	66.483	-12.393	1.00	0.00	C
ATOM	1840	C	LEU	192	18.499	68.326	-8.658	1.00	0.00	C
ATOM	1841	O	LEU	192	17.973	69.127	-7.891	1.00	0.00	O
ATOM	1842	N	GLY	193	19.682	67.745	-8.401	1.00	0.00	N
ATOM	1843	HN	GLY	193	20.115	67.166	-9.120	1.00	0.00	H
ATOM	1844	CA	GLY	193	20.353	67.914	-7.148	1.00	0.00	C
ATOM	1845	C	GLY	193	20.540	69.378	-6.963	1.00	0.00	C
ATOM	1846	O	GLY	193	20.581	69.867	-5.837	1.00	0.00	O
ATOM	1847	N	LEU	194	20.717	70.104	-8.079	1.00	0.00	N

ATOM	1848	HN	LEU	194	20.734	69.629	-8.982	1.00	0.00	H
ATOM	1849	CA	LEU	194	20.882	71.524	-8.037	1.00	0.00	C
ATOM	1850	CB	LEU	194	21.164	72.093	-9.440	1.00	0.00	C
ATOM	1851	CG	LEU	194	21.271	73.625	-9.513	1.00	0.00	C
ATOM	1852	CD1	LEU	194	19.890	74.302	-9.491	1.00	0.00	C
ATOM	1853	CD2	LEU	194	22.205	74.155	-8.415	1.00	0.00	C
ATOM	1854	C	LEU	194	19.634	72.153	-7.498	1.00	0.00	C
ATOM	1855	O	LEU	194	19.701	72.977	-6.590	1.00	0.00	O
ATOM	1856	N	SER	195	18.452	71.763	-8.014	1.00	0.00	N
ATOM	1857	HN	SER	195	18.419	71.027	-8.719	1.00	0.00	H
ATOM	1858	CA	SER	195	17.239	72.388	-7.567	1.00	0.00	C
ATOM	1859	CB	SER	195	15.989	71.868	-8.304	1.00	0.00	C
ATOM	1860	OG	SER	195	15.778	70.493	-8.017	1.00	0.00	O
ATOM	1861	HG	SER	195	15.008	70.173	-8.471	1.00	0.00	H
ATOM	1862	C	SER	195	17.075	72.077	-6.114	1.00	0.00	C
ATOM	1863	O	SER	195	16.624	72.917	-5.338	1.00	0.00	O
ATOM	1864	N	ALA	196	17.426	70.842	-5.713	1.00	0.00	N
ATOM	1865	HN	ALA	196	17.794	70.178	-6.394	1.00	0.00	H
ATOM	1866	CA	ALA	196	17.290	70.445	-4.343	1.00	0.00	C
ATOM	1867	CB	ALA	196	17.609	68.956	-4.127	1.00	0.00	C
ATOM	1868	C	ALA	196	18.221	71.244	-3.482	1.00	0.00	C
ATOM	1869	O	ALA	196	17.822	71.783	-2.454	1.00	0.00	O
ATOM	1870	N	ALA	197	19.494	71.385	-3.890	1.00	0.00	N
ATOM	1871	HN	ALA	197	19.797	71.005	-4.787	1.00	0.00	H
ATOM	1872	CA	ALA	197	20.418	72.079	-3.043	1.00	0.00	C
ATOM	1873	CB	ALA	197	21.845	72.108	-3.616	1.00	0.00	C
ATOM	1874	C	ALA	197	19.963	73.494	-2.885	1.00	0.00	C
ATOM	1875	O	ALA	197	19.931	74.013	-1.774	1.00	0.00	O
ATOM	1876	N	VAL	198	19.584	74.154	-3.995	1.00	0.00	N
ATOM	1877	HN	VAL	198	19.561	73.654	-4.883	1.00	0.00	H
ATOM	1878	CA	VAL	198	19.211	75.541	-3.968	1.00	0.00	C
ATOM	1879	CB	VAL	198	18.965	76.073	-5.352	1.00	0.00	C
ATOM	1880	CG1	VAL	198	18.486	77.531	-5.257	1.00	0.00	C
ATOM	1881	CG2	VAL	198	20.247	75.886	-6.182	1.00	0.00	C
ATOM	1882	C	VAL	198	17.955	75.772	-3.185	1.00	0.00	C
ATOM	1883	O	VAL	198	17.957	76.500	-2.196	1.00	0.00	O
ATOM	1884	N	TRP	199	16.851	75.114	-3.580	1.00	0.00	N
ATOM	1885	HN	TRP	199	16.918	74.409	-4.314	1.00	0.00	H
ATOM	1886	CA	TRP	199	15.580	75.396	-2.977	1.00	0.00	C
ATOM	1887	CB	TRP	199	14.429	74.580	-3.598	1.00	0.00	C
ATOM	1888	CG	TRP	199	13.040	75.077	-3.259	1.00	0.00	C
ATOM	1889	CD2	TRP	199	12.298	74.791	-2.058	1.00	0.00	C
ATOM	1890	CD1	TRP	199	12.243	75.883	-4.018	1.00	0.00	C
ATOM	1891	NE1	TRP	199	11.053	76.114	-3.373	1.00	0.00	N
ATOM	1892	HE1	TRP	199	10.283	76.682	-3.727	1.00	0.00	H
ATOM	1893	CE2	TRP	199	11.074	75.450	-2.167	1.00	0.00	C
ATOM	1894	CE3	TRP	199	12.608	74.044	-0.957	1.00	0.00	C
ATOM	1895	CZ2	TRP	199	10.140	75.373	-1.173	1.00	0.00	C
ATOM	1896	CZ3	TRP	199	11.662	73.967	0.043	1.00	0.00	C
ATOM	1897	CH2	TRP	199	10.452	74.619	-0.064	1.00	0.00	C
ATOM	1898	C	TRP	199	15.641	75.034	-1.527	1.00	0.00	C
ATOM	1899	O	TRP	199	15.272	75.832	-0.670	1.00	0.00	O
ATOM	1900	N	ALA	200	16.124	73.817	-1.206	1.00	0.00	N
ATOM	1901	HN	ALA	200	16.484	73.201	-1.935	1.00	0.00	H
ATOM	1902	CA	ALA	200	16.131	73.390	0.162	1.00	0.00	C
ATOM	1903	CB	ALA	200	16.661	71.959	0.339	1.00	0.00	C
ATOM	1904	C	ALA	200	17.016	74.279	0.982	1.00	0.00	C
ATOM	1905	O	ALA	200	16.609	74.775	2.030	1.00	0.00	O
ATOM	1906	N	LYS	201	18.247	74.539	0.513	1.00	0.00	N
ATOM	1907	HN	LYS	201	18.531	74.180	-0.399	1.00	0.00	H
ATOM	1908	CA	LYS	201	19.165	75.321	1.293	1.00	0.00	C
ATOM	1909	CB	LYS	201	20.576	75.421	0.689	1.00	0.00	C
ATOM	1910	CG	LYS	201	21.301	74.078	0.593	1.00	0.00	C
ATOM	1911	CD	LYS	201	21.444	73.347	1.926	1.00	0.00	C
ATOM	1912	CE	LYS	201	21.937	71.908	1.768	1.00	0.00	C
ATOM	1913	NZ	LYS	201	22.167	71.307	3.098	1.00	0.00	N
ATOM	1914	HZ1	LYS	201	22.496	70.347	2.993	1.00	0.00	H
ATOM	1915	HZ2	LYS	201	21.341	71.366	3.693	1.00	0.00	H
ATOM	1916	HZ3	LYS	201	22.800	71.868	3.668	1.00	0.00	H
ATOM	1917	C	LYS	201	18.642	76.706	1.404	1.00	0.00	C
ATOM	1918	O	LYS	201	18.809	77.354	2.435	1.00	0.00	O
ATOM	1919	N	ILE	202	18.014	77.208	0.325	1.00	0.00	N
ATOM	1920	HN	ILE	202	17.876	76.636	-0.508	1.00	0.00	H
ATOM	1921	CA	ILE	202	17.545	78.556	0.368	1.00	0.00	C

ATOM	1922	CB	ILE	202	17.091	79.112	-0.959	1.00	0.00	C
ATOM	1923	CG1	ILE	202	15.932	78.329	-1.587	1.00	0.00	C
ATOM	1924	CG2	ILE	202	18.333	79.218	-1.854	1.00	0.00	C
ATOM	1925	CD1	ILE	202	15.358	79.016	-2.825	1.00	0.00	C
ATOM	1926	C	ILE	202	16.481	78.670	1.404	1.00	0.00	C
ATOM	1927	O	ILE	202	16.465	79.621	2.180	1.00	0.00	O
ATOM	1928	N	LEU	203	15.569	77.690	1.465	1.00	0.00	N
ATOM	1929	HN	LEU	203	15.609	76.912	0.807	1.00	0.00	H
ATOM	1930	CA	LEU	203	14.545	77.739	2.450	1.00	0.00	C
ATOM	1931	CB	LEU	203	13.534	76.603	2.278	1.00	0.00	C
ATOM	1932	CG	LEU	203	12.317	76.725	3.201	1.00	0.00	C
ATOM	1933	CD1	LEU	203	11.560	78.041	2.961	1.00	0.00	C
ATOM	1934	CD2	LEU	203	11.414	75.501	3.036	1.00	0.00	C
ATOM	1935	C	LEU	203	15.219	77.617	3.778	1.00	0.00	C
ATOM	1936	O	LEU	203	14.810	78.256	4.737	1.00	0.00	O
ATOM	1937	N	SER	204	16.295	76.812	3.873	1.00	0.00	N
ATOM	1938	HN	SER	204	16.634	76.333	3.038	1.00	0.00	H
ATOM	1939	CA	SER	204	16.978	76.611	5.125	1.00	0.00	C
ATOM	1940	CB	SER	204	18.249	75.754	4.971	1.00	0.00	C
ATOM	1941	OG	SER	204	17.928	74.465	4.467	1.00	0.00	O
ATOM	1942	HG	SER	204	18.712	73.937	4.372	1.00	0.00	H
ATOM	1943	C	SER	204	17.409	77.943	5.666	1.00	0.00	C
ATOM	1944	O	SER	204	17.200	78.241	6.842	1.00	0.00	O
ATOM	1945	N	SER	205	18.025	78.792	4.824	1.00	0.00	N
ATOM	1946	HN	SER	205	18.192	78.524	3.854	1.00	0.00	H
ATOM	1947	CA	SER	205	18.445	80.078	5.302	1.00	0.00	C
ATOM	1948	CB	SER	205	19.184	80.898	4.237	1.00	0.00	C
ATOM	1949	OG	SER	205	18.296	81.212	3.175	1.00	0.00	O
ATOM	1950	HG	SER	205	18.754	81.720	2.515	1.00	0.00	H
ATOM	1951	C	SER	205	17.200	80.824	5.647	1.00	0.00	C
ATOM	1952	O	SER	205	17.159	81.606	6.595	1.00	0.00	O
ATOM	1953	N	PHE	206	16.129	80.552	4.886	1.00	0.00	N
ATOM	1954	HN	PHE	206	16.219	79.848	4.154	1.00	0.00	H
ATOM	1955	CA	PHE	206	14.865	81.204	5.053	1.00	0.00	C
ATOM	1956	CB	PHE	206	13.812	80.715	4.045	1.00	0.00	C
ATOM	1957	CG	PHE	206	12.557	81.489	4.257	1.00	0.00	C
ATOM	1958	CD1	PHE	206	12.443	82.764	3.756	1.00	0.00	C
ATOM	1959	CD2	PHE	206	11.494	80.941	4.937	1.00	0.00	C
ATOM	1960	CE1	PHE	206	11.290	83.489	3.937	1.00	0.00	C
ATOM	1961	CE2	PHE	206	10.337	81.662	5.121	1.00	0.00	C
ATOM	1962	CZ	PHE	206	10.234	82.938	4.622	1.00	0.00	C
ATOM	1963	C	PHE	206	14.368	80.890	6.431	1.00	0.00	C
ATOM	1964	O	PHE	206	13.738	81.730	7.070	1.00	0.00	O
ATOM	1965	N	THR	207	14.617	79.655	6.914	1.00	0.00	N
ATOM	1966	HN	THR	207	15.131	78.995	6.331	1.00	0.00	H
ATOM	1967	CA	THR	207	14.187	79.236	8.215	1.00	0.00	C
ATOM	1968	CB	THR	207	14.604	77.828	8.550	1.00	0.00	C
ATOM	1969	OG1	THR	207	14.038	76.906	7.631	1.00	0.00	O
ATOM	1970	HG1	THR	207	14.301	76.018	7.842	1.00	0.00	H
ATOM	1971	CG2	THR	207	14.150	77.494	9.981	1.00	0.00	C
ATOM	1972	C	THR	207	14.848	80.131	9.207	1.00	0.00	C
ATOM	1973	O	THR	207	14.209	80.637	10.127	1.00	0.00	O
ATOM	1974	N	ASP	208	16.155	80.376	9.014	1.00	0.00	N
ATOM	1975	HN	ASP	208	16.623	79.981	8.198	1.00	0.00	H
ATOM	1976	CA	ASP	208	16.903	81.181	9.931	1.00	0.00	C
ATOM	1977	CB	ASP	208	18.365	81.351	9.479	1.00	0.00	C
ATOM	1978	CG	ASP	208	19.180	82.078	10.544	1.00	0.00	C
ATOM	1979	OD1	ASP	208	18.596	82.761	11.427	1.00	0.00	O
ATOM	1980	OD2	ASP	208	20.430	81.949	10.478	1.00	0.00	O
ATOM	1981	C	ASP	208	16.287	82.547	9.978	1.00	0.00	C
ATOM	1982	O	ASP	208	16.034	83.080	11.056	1.00	0.00	O
ATOM	1983	N	LYS	209	15.985	83.134	8.807	1.00	0.00	N
ATOM	1984	HN	LYS	209	16.151	82.632	7.935	1.00	0.00	H
ATOM	1985	CA	LYS	209	15.432	84.457	8.769	1.00	0.00	C
ATOM	1986	CB	LYS	209	15.145	84.920	7.324	1.00	0.00	C
ATOM	1987	CG	LYS	209	14.185	86.106	7.179	1.00	0.00	C
ATOM	1988	CD	LYS	209	12.712	85.712	7.337	1.00	0.00	C
ATOM	1989	CE	LYS	209	11.740	86.889	7.312	1.00	0.00	C
ATOM	1990	NZ	LYS	209	11.553	87.427	8.676	1.00	0.00	N
ATOM	1991	HZ1	LYS	209	10.904	88.213	8.659	1.00	0.00	H
ATOM	1992	HZ2	LYS	209	12.441	87.676	9.112	1.00	0.00	H
ATOM	1993	HZ3	LYS	209	11.259	86.704	9.333	1.00	0.00	H
ATOM	1994	C	LYS	209	14.163	84.441	9.552	1.00	0.00	C
ATOM	1995	O	LYS	209	13.864	85.378	10.292	1.00	0.00	O

ATOM	1996	N	GLU	210	13.387	83.356	9.423	1.00	0.00	N
ATOM	1997	HN	GLU	210	13.682	82.584	8.825	1.00	0.00	H
ATOM	1998	CA	GLU	210	12.145	83.283	10.125	1.00	0.00	C
ATOM	1999	CB	GLU	210	11.374	81.986	9.839	1.00	0.00	C
ATOM	2000	CG	GLU	210	10.902	81.876	8.387	1.00	0.00	C
ATOM	2001	CD	GLU	210	9.887	82.978	8.114	1.00	0.00	C
ATOM	2002	OE1	GLU	210	10.330	84.111	7.791	1.00	0.00	O
ATOM	2003	OE2	GLU	210	8.661	82.701	8.219	1.00	0.00	O
ATOM	2004	C	GLU	210	12.454	83.333	11.586	1.00	0.00	C
ATOM	2005	O	GLU	210	11.742	83.976	12.354	1.00	0.00	O
ATOM	2006	N	LEU	211	13.546	82.662	11.996	1.00	0.00	N
ATOM	2007	HN	LEU	211	14.107	82.177	11.295	1.00	0.00	H
ATOM	2008	CA	LEU	211	13.964	82.592	13.369	1.00	0.00	C
ATOM	2009	CB	LEU	211	15.242	81.751	13.551	1.00	0.00	C
ATOM	2010	CG	LEU	211	15.097	80.267	13.165	1.00	0.00	C
ATOM	2011	CD1	LEU	211	16.421	79.512	13.378	1.00	0.00	C
ATOM	2012	CD2	LEU	211	13.914	79.608	13.891	1.00	0.00	C
ATOM	2013	C	LEU	211	14.312	83.966	13.881	1.00	0.00	C
ATOM	2014	O	LEU	211	13.987	84.300	15.017	1.00	0.00	O
ATOM	2015	N	LEU	212	14.997	84.796	13.066	1.00	0.00	N
ATOM	2016	HN	LEU	212	15.191	84.494	12.111	1.00	0.00	H
ATOM	2017	CA	LEU	212	15.465	86.090	13.490	1.00	0.00	C
ATOM	2018	CB	LEU	212	16.248	86.797	12.363	1.00	0.00	C
ATOM	2019	CG	LEU	212	16.803	88.197	12.704	1.00	0.00	C
ATOM	2020	CD1	LEU	212	15.703	89.273	12.764	1.00	0.00	C
ATOM	2021	CD2	LEU	212	17.662	88.153	13.977	1.00	0.00	C
ATOM	2022	C	LEU	212	14.295	86.945	13.854	1.00	0.00	C
ATOM	2023	O	LEU	212	14.261	87.551	14.924	1.00	0.00	O
ATOM	2024	N	ALA	213	13.282	86.987	12.977	1.00	0.00	N
ATOM	2025	HN	ALA	213	13.331	86.439	12.118	1.00	0.00	H
ATOM	2026	CA	ALA	213	12.131	87.798	13.240	1.00	0.00	C
ATOM	2027	CB	ALA	213	11.047	87.671	12.153	1.00	0.00	C
ATOM	2028	C	ALA	213	11.547	87.284	14.518	1.00	0.00	C
ATOM	2029	O	ALA	213	11.040	88.045	15.338	1.00	0.00	O
ATOM	2030	N	TYR	214	11.624	85.956	14.705	1.00	0.00	N
ATOM	2031	HN	TYR	214	12.078	85.406	13.976	1.00	0.00	H
ATOM	2032	CA	TYR	214	11.120	85.249	15.845	1.00	0.00	C
ATOM	2033	CB	TYR	214	11.374	83.741	15.608	1.00	0.00	C
ATOM	2034	CG	TYR	214	11.333	82.853	16.803	1.00	0.00	C
ATOM	2035	CD1	TYR	214	10.159	82.315	17.269	1.00	0.00	C
ATOM	2036	CD2	TYR	214	12.505	82.531	17.448	1.00	0.00	C
ATOM	2037	CE1	TYR	214	10.159	81.478	18.362	1.00	0.00	C
ATOM	2038	CE2	TYR	214	12.511	81.696	18.539	1.00	0.00	C
ATOM	2039	CZ	TYR	214	11.334	81.165	19.001	1.00	0.00	C
ATOM	2040	OH	TYR	214	11.336	80.304	20.120	1.00	0.00	O
ATOM	2041	HH	TYR	214	12.149	80.088	20.562	1.00	0.00	H
ATOM	2042	C	TYR	214	11.785	85.759	17.097	1.00	0.00	C
ATOM	2043	O	TYR	214	11.114	86.076	18.077	1.00	0.00	O
ATOM	2044	N	ALA	215	13.118	85.916	17.092	1.00	0.00	N
ATOM	2045	HN	ALA	215	13.643	85.732	16.237	1.00	0.00	H
ATOM	2046	CA	ALA	215	13.815	86.341	18.276	1.00	0.00	C
ATOM	2047	CB	ALA	215	15.338	86.382	18.070	1.00	0.00	C
ATOM	2048	C	ALA	215	13.374	87.713	18.681	1.00	0.00	C
ATOM	2049	O	ALA	215	13.195	87.990	19.866	1.00	0.00	O
ATOM	2050	N	LYS	216	13.192	88.618	17.704	1.00	0.00	N
ATOM	2051	HN	LYS	216	13.302	88.339	16.729	1.00	0.00	H
ATOM	2052	CA	LYS	216	12.844	89.973	18.022	1.00	0.00	C
ATOM	2053	CB	LYS	216	12.806	90.868	16.781	1.00	0.00	C
ATOM	2054	CG	LYS	216	14.127	90.744	16.029	1.00	0.00	C
ATOM	2055	CD	LYS	216	15.325	90.883	16.968	1.00	0.00	C
ATOM	2056	CE	LYS	216	16.591	90.206	16.446	1.00	0.00	C
ATOM	2057	NZ	LYS	216	17.444	89.810	17.588	1.00	0.00	N
ATOM	2058	HZ1	LYS	216	18.289	89.358	17.239	1.00	0.00	H
ATOM	2059	HZ2	LYS	216	16.944	89.227	18.259	1.00	0.00	H
ATOM	2060	HZ3	LYS	216	17.653	90.596	18.204	1.00	0.00	H
ATOM	2061	C	LYS	216	11.501	89.988	18.673	1.00	0.00	C
ATOM	2062	O	LYS	216	11.274	90.708	19.644	1.00	0.00	O
ATOM	2063	N	ALA	217	10.581	89.157	18.156	1.00	0.00	N
ATOM	2064	HN	ALA	217	10.849	88.549	17.382	1.00	0.00	H
ATOM	2065	CA	ALA	217	9.240	89.092	18.650	1.00	0.00	C
ATOM	2066	CB	ALA	217	8.372	88.076	17.885	1.00	0.00	C
ATOM	2067	C	ALA	217	9.296	88.660	20.082	1.00	0.00	C
ATOM	2068	O	ALA	217	8.464	89.065	20.892	1.00	0.00	O
ATOM	2069	N	GLY	218	10.261	87.787	20.417	1.00	0.00	N

ATOM	2070	HN	GLY	218	10.901	87.470	19.689	1.00	0.00	H
ATOM	2071	CA	GLY	218	10.437	87.277	21.749	1.00	0.00	C
ATOM	2072	C	GLY	218	10.839	88.356	22.729	1.00	0.00	C
ATOM	2073	O	GLY	218	10.498	88.279	23.908	1.00	0.00	O
ATOM	2074	N	ALA	219	11.671	89.333	22.313	1.00	0.00	N
ATOM	2075	HN	ALA	219	12.013	89.326	21.352	1.00	0.00	H
ATOM	2076	CA	ALA	219	12.084	90.388	23.208	1.00	0.00	C
ATOM	2077	CB	ALA	219	13.165	91.297	22.602	1.00	0.00	C
ATOM	2078	C	ALA	219	10.910	91.255	23.534	1.00	0.00	C
ATOM	2079	O	ALA	219	10.707	91.652	24.682	1.00	0.00	O
ATOM	2080	N	VAL	220	10.105	91.573	22.504	1.00	0.00	N
ATOM	2081	HN	VAL	220	10.338	91.237	21.570	1.00	0.00	H
ATOM	2082	CA	VAL	220	8.930	92.371	22.684	1.00	0.00	C
ATOM	2083	CB	VAL	220	8.264	92.836	21.417	1.00	0.00	C
ATOM	2084	CG1	VAL	220	7.592	91.657	20.702	1.00	0.00	C
ATOM	2085	CG2	VAL	220	7.290	93.962	21.798	1.00	0.00	C
ATOM	2086	C	VAL	220	7.996	91.524	23.480	1.00	0.00	C
ATOM	2087	O	VAL	220	6.948	91.970	23.936	1.00	0.00	O
ATOM	2088	N	ALA	221	8.285	90.214	23.513	1.00	0.00	N
ATOM	2089	HN	ALA	221	9.031	89.864	22.912	1.00	0.00	H
ATOM	2090	CA	ALA	221	7.594	89.288	24.353	1.00	0.00	C
ATOM	2091	CB	ALA	221	7.822	87.799	24.019	1.00	0.00	C
ATOM	2092	C	ALA	221	7.979	89.524	25.799	1.00	0.00	C
ATOM	2093	O	ALA	221	7.266	89.082	26.693	1.00	0.00	O
ATOM	2094	N	GLU	222	9.199	90.042	26.091	1.00	0.00	N
ATOM	2095	HN	GLU	222	9.832	90.305	25.336	1.00	0.00	H
ATOM	2096	CA	GLU	222	9.608	90.224	27.471	1.00	0.00	C
ATOM	2097	CB	GLU	222	11.131	90.262	27.653	1.00	0.00	C
ATOM	2098	CG	GLU	222	11.789	88.915	27.379	1.00	0.00	C
ATOM	2099	CD	GLU	222	13.192	88.964	27.957	1.00	0.00	C
ATOM	2100	OE1	GLU	222	13.520	89.975	28.635	1.00	0.00	O
ATOM	2101	OE2	GLU	222	13.948	87.980	27.741	1.00	0.00	O
ATOM	2102	C	GLU	222	9.073	91.410	28.257	1.00	0.00	C
ATOM	2103	O	GLU	222	8.281	91.230	29.179	1.00	0.00	O
ATOM	2104	N	GLU	223	9.446	92.663	27.893	1.00	0.00	N
ATOM	2105	HN	GLU	223	9.998	92.789	27.045	1.00	0.00	H
ATOM	2106	CA	GLU	223	9.080	93.831	28.679	1.00	0.00	C
ATOM	2107	CB	GLU	223	7.572	94.131	28.696	1.00	0.00	C
ATOM	2108	CG	GLU	223	7.032	94.687	27.376	1.00	0.00	C
ATOM	2109	CD	GLU	223	7.116	93.593	26.326	1.00	0.00	C
ATOM	2110	OE1	GLU	223	8.194	93.478	25.686	1.00	0.00	O
ATOM	2111	OE2	GLU	223	6.106	92.857	26.154	1.00	0.00	O
ATOM	2112	C	GLU	223	9.544	93.672	30.111	1.00	0.00	C
ATOM	2113	O	GLU	223	10.214	92.696	30.442	1.00	0.00	O
ATOM	2114	N	VAL	224	9.241	94.669	30.989	1.00	0.00	N
ATOM	2115	HN	VAL	224	8.721	95.481	30.656	1.00	0.00	H
ATOM	2116	CA	VAL	224	9.635	94.610	32.380	1.00	0.00	C
ATOM	2117	CB	VAL	224	9.696	95.942	33.074	1.00	0.00	C
ATOM	2118	CG1	VAL	224	9.867	95.689	34.582	1.00	0.00	C
ATOM	2119	CG2	VAL	224	10.861	96.749	32.468	1.00	0.00	C
ATOM	2120	C	VAL	224	8.710	93.706	33.146	1.00	0.00	C
ATOM	2121	O	VAL	224	7.514	93.625	32.876	1.00	0.00	O
ATOM	2122	N	LEU	225	9.334	92.827	33.952	1.00	0.00	N
ATOM	2123	HN	LEU	225	10.353	92.852	33.921	1.00	0.00	H
ATOM	2124	CA	LEU	225	8.766	91.857	34.851	1.00	0.00	C
ATOM	2125	CB	LEU	225	9.531	90.532	34.710	1.00	0.00	C
ATOM	2126	CG	LEU	225	9.798	90.159	33.230	1.00	0.00	C
ATOM	2127	CD1	LEU	225	8.518	90.229	32.383	1.00	0.00	C
ATOM	2128	CD2	LEU	225	10.967	90.959	32.626	1.00	0.00	C
ATOM	2129	C	LEU	225	8.741	92.248	36.307	1.00	0.00	C
ATOM	2130	O	LEU	225	8.019	91.639	37.093	1.00	0.00	O
ATOM	2131	N	ALA	226	9.644	93.165	36.719	1.00	0.00	N
ATOM	2132	HN	ALA	226	10.178	93.657	36.003	1.00	0.00	H
ATOM	2133	CA	ALA	226	9.910	93.500	38.101	1.00	0.00	C
ATOM	2134	CB	ALA	226	11.371	93.906	38.347	1.00	0.00	C
ATOM	2135	C	ALA	226	9.062	94.635	38.580	1.00	0.00	C
ATOM	2136	O	ALA	226	8.088	95.015	37.935	1.00	0.00	O
ATOM	2137	N	ALA	227	9.423	95.169	39.775	1.00	0.00	N
ATOM	2138	HN	ALA	227	10.234	94.773	40.251	1.00	0.00	H
ATOM	2139	CA	ALA	227	8.733	96.257	40.409	1.00	0.00	C
ATOM	2140	CB	ALA	227	8.626	97.502	39.512	1.00	0.00	C
ATOM	2141	C	ALA	227	7.363	95.763	40.693	1.00	0.00	C
ATOM	2142	O	ALA	227	6.417	96.515	40.907	1.00	0.00	O
ATOM	2143	N	ILE	228	7.278	94.441	40.818	1.00	0.00	N

ATOM	2144	HN	ILE	228	8.150	93.911	40.806	1.00	0.00	H
ATOM	2145	CA	ILE	228	6.069	93.708	40.967	1.00	0.00	C
ATOM	2146	CB	ILE	228	6.344	92.249	41.146	1.00	0.00	C
ATOM	2147	CG1	ILE	228	5.034	91.457	41.251	1.00	0.00	C
ATOM	2148	CG2	ILE	228	7.263	92.112	42.369	1.00	0.00	C
ATOM	2149	CD1	ILE	228	4.182	91.524	39.987	1.00	0.00	C
ATOM	2150	C	ILE	228	5.299	94.177	42.148	1.00	0.00	C
ATOM	2151	O	ILE	228	4.079	94.157	42.078	1.00	0.00	O
ATOM	2152	N	ARG	229	5.940	94.577	43.266	1.00	0.00	N
ATOM	2153	HN	ARG	229	6.959	94.604	43.303	1.00	0.00	H
ATOM	2154	CA	ARG	229	5.148	94.966	44.408	1.00	0.00	C
ATOM	2155	CB	ARG	229	5.994	95.525	45.564	1.00	0.00	C
ATOM	2156	CG	ARG	229	5.157	95.952	46.772	1.00	0.00	C
ATOM	2157	CD	ARG	229	5.765	97.115	47.559	1.00	0.00	C
ATOM	2158	NE	ARG	229	7.075	96.664	48.104	1.00	0.00	N
ATOM	2159	HE	ARG	229	7.249	95.673	48.271	1.00	0.00	H
ATOM	2160	CZ	ARG	229	8.042	97.589	48.378	1.00	0.00	C
ATOM	2161	NH1	ARG	229	7.802	98.906	48.113	1.00	0.00	N
ATOM	2162	1HH1	ARG	229	8.524	99.597	48.318	1.00	0.00	H
ATOM	2163	2HH1	ARG	229	6.912	99.192	47.705	1.00	0.00	H
ATOM	2164	NH2	ARG	229	9.232	97.207	48.923	1.00	0.00	N
ATOM	2165	1HH2	ARG	229	9.954	97.898	49.128	1.00	0.00	H
ATOM	2166	2HH2	ARG	229	9.411	96.223	49.121	1.00	0.00	H
ATOM	2167	C	ARG	229	4.243	96.079	43.985	1.00	0.00	C
ATOM	2168	O	ARG	229	3.031	96.010	44.182	1.00	0.00	O
ATOM	2169	N	THR	230	4.797	97.095	43.306	1.00	0.00	N
ATOM	2170	HN	THR	230	5.792	97.077	43.084	1.00	0.00	H
ATOM	2171	CA	THR	230	3.992	98.202	42.894	1.00	0.00	C
ATOM	2172	CB	THR	230	4.783	99.261	42.192	1.00	0.00	C
ATOM	2173	OG1	THR	230	5.809	99.738	43.050	1.00	0.00	O
ATOM	2174	HG1	THR	230	6.311	100.410	42.604	1.00	0.00	H
ATOM	2175	CG2	THR	230	3.841	100.412	41.806	1.00	0.00	C
ATOM	2176	C	THR	230	2.962	97.683	41.946	1.00	0.00	C
ATOM	2177	O	THR	230	1.831	98.167	41.904	1.00	0.00	O
ATOM	2178	N	VAL	231	3.357	96.688	41.138	1.00	0.00	N
ATOM	2179	HN	VAL	231	4.306	96.329	41.240	1.00	0.00	H
ATOM	2180	CA	VAL	231	2.511	96.101	40.135	1.00	0.00	C
ATOM	2181	CB	VAL	231	3.249	95.207	39.177	1.00	0.00	C
ATOM	2182	CG1	VAL	231	2.243	94.640	38.159	1.00	0.00	C
ATOM	2183	CG2	VAL	231	4.378	96.017	38.517	1.00	0.00	C
ATOM	2184	C	VAL	231	1.371	95.310	40.727	1.00	0.00	C
ATOM	2185	O	VAL	231	0.324	95.176	40.099	1.00	0.00	O
ATOM	2186	N	ILE	232	1.547	94.687	41.908	1.00	0.00	N
ATOM	2187	HN	ILE	232	2.440	94.777	42.392	1.00	0.00	H
ATOM	2188	CA	ILE	232	0.503	93.900	42.498	1.00	0.00	C
ATOM	2189	CB	ILE	232	0.968	93.177	43.721	1.00	0.00	C
ATOM	2190	CG1	ILE	232	2.079	92.192	43.321	1.00	0.00	C
ATOM	2191	CG2	ILE	232	-0.247	92.532	44.403	1.00	0.00	C
ATOM	2192	CD1	ILE	232	1.663	91.227	42.210	1.00	0.00	C
ATOM	2193	C	ILE	232	-0.610	94.824	42.873	1.00	0.00	C
ATOM	2194	O	ILE	232	-1.787	94.526	42.679	1.00	0.00	O
ATOM	2195	N	ALA	233	-0.238	95.976	43.448	1.00	0.00	N
ATOM	2196	HN	ALA	233	0.753	96.110	43.651	1.00	0.00	H
ATOM	2197	CA	ALA	233	-1.144	97.034	43.796	1.00	0.00	C
ATOM	2198	CB	ALA	233	-0.447	98.191	44.532	1.00	0.00	C
ATOM	2199	C	ALA	233	-1.712	97.572	42.512	1.00	0.00	C
ATOM	2200	O	ALA	233	-2.727	98.266	42.502	1.00	0.00	O
ATOM	2201	N	PHE	234	-0.954	97.407	41.413	1.00	0.00	N
ATOM	2202	HN	PHE	234	-0.045	96.955	41.511	1.00	0.00	H
ATOM	2203	CA	PHE	234	-1.371	97.842	40.102	1.00	0.00	C
ATOM	2204	CB	PHE	234	-0.207	97.858	39.094	1.00	0.00	C
ATOM	2205	CG	PHE	234	-0.614	98.704	37.934	1.00	0.00	C
ATOM	2206	CD1	PHE	234	-0.615	100.075	38.057	1.00	0.00	C
ATOM	2207	CD2	PHE	234	-0.969	98.149	36.727	1.00	0.00	C
ATOM	2208	CE1	PHE	234	-0.980	100.881	37.005	1.00	0.00	C
ATOM	2209	CE2	PHE	234	-1.335	98.951	35.668	1.00	0.00	C
ATOM	2210	CZ	PHE	234	-1.342	100.319	35.806	1.00	0.00	C
ATOM	2211	C	PHE	234	-2.459	96.944	39.565	1.00	0.00	C
ATOM	2212	O	PHE	234	-3.438	97.434	38.996	1.00	0.00	O
ATOM	2213	N	GLY	235	-2.318	95.607	39.753	1.00	0.00	N
ATOM	2214	HN	GLY	235	-1.481	95.268	40.227	1.00	0.00	H
ATOM	2215	CA	GLY	235	-3.297	94.643	39.314	1.00	0.00	C
ATOM	2216	C	GLY	235	-2.656	93.498	38.601	1.00	0.00	C
ATOM	2217	O	GLY	235	-2.780	92.342	39.009	1.00	0.00	O

ATOM	2218	N	GLY	236	-1.923	93.784	37.526	1.00	0.00	N
ATOM	2219	HN	GLY	236	-1.807	94.753	37.229	1.00	0.00	H
ATOM	2220	CA	GLY	236	-1.304	92.737	36.796	1.00	0.00	C
ATOM	2221	C	GLY	236	-1.573	93.142	35.420	1.00	0.00	C
ATOM	2222	O	GLY	236	-2.743	93.268	35.049	1.00	0.00	O
ATOM	2223	N	GLN	237	-0.487	93.363	34.653	1.00	0.00	N
ATOM	2224	HN	GLN	237	0.452	93.193	35.013	1.00	0.00	H
ATOM	2225	CA	GLN	237	-0.686	93.839	33.331	1.00	0.00	C
ATOM	2226	CB	GLN	237	0.644	93.947	32.567	1.00	0.00	C
ATOM	2227	CG	GLN	237	1.785	94.598	33.362	1.00	0.00	C
ATOM	2228	CD	GLN	237	1.364	95.973	33.857	1.00	0.00	C
ATOM	2229	OE1	GLN	237	0.381	96.109	34.584	1.00	0.00	O
ATOM	2230	NE2	GLN	237	2.133	97.023	33.463	1.00	0.00	N
ATOM	2231	1HE2	GLN	237	2.948	96.910	32.860	1.00	0.00	H
ATOM	2232	2HE2	GLN	237	1.851	97.945	33.795	1.00	0.00	H
ATOM	2233	C	GLN	237	-1.495	92.727	32.718	1.00	0.00	C
ATOM	2234	O	GLN	237	-2.669	92.902	32.395	1.00	0.00	O
ATOM	2235	N	LYS	238	-0.882	91.525	32.695	1.00	0.00	N
ATOM	2236	HN	LYS	238	0.103	91.538	32.958	1.00	0.00	H
ATOM	2237	CA	LYS	238	-1.403	90.232	32.357	1.00	0.00	C
ATOM	2238	CB	LYS	238	-2.576	89.835	33.264	1.00	0.00	C
ATOM	2239	CG	LYS	238	-2.195	89.726	34.744	1.00	0.00	C
ATOM	2240	CD	LYS	238	-3.394	89.625	35.691	1.00	0.00	C
ATOM	2241	CE	LYS	238	-4.265	90.884	35.720	1.00	0.00	C
ATOM	2242	NZ	LYS	238	-4.988	91.029	34.436	1.00	0.00	N
ATOM	2243	HZ1	LYS	238	-5.568	91.868	34.455	1.00	0.00	H
ATOM	2244	HZ2	LYS	238	-5.529	90.195	34.205	1.00	0.00	H
ATOM	2245	HZ3	LYS	238	-4.354	91.021	33.637	1.00	0.00	H
ATOM	2246	C	LYS	238	-1.840	90.152	30.929	1.00	0.00	C
ATOM	2247	O	LYS	238	-1.676	89.111	30.298	1.00	0.00	O
ATOM	2248	N	LYS	239	-2.491	91.218	30.430	1.00	0.00	N
ATOM	2249	HN	LYS	239	-2.711	91.968	31.085	1.00	0.00	H
ATOM	2250	CA	LYS	239	-2.906	91.408	29.074	1.00	0.00	C
ATOM	2251	CB	LYS	239	-4.155	92.292	28.960	1.00	0.00	C
ATOM	2252	CG	LYS	239	-4.537	92.567	27.511	1.00	0.00	C
ATOM	2253	CD	LYS	239	-4.868	91.300	26.729	1.00	0.00	C
ATOM	2254	CE	LYS	239	-5.166	91.564	25.254	1.00	0.00	C
ATOM	2255	NZ	LYS	239	-5.376	90.282	24.549	1.00	0.00	N
ATOM	2256	HZ1	LYS	239	-5.575	90.458	23.564	1.00	0.00	H
ATOM	2257	HZ2	LYS	239	-6.100	89.715	24.991	1.00	0.00	H
ATOM	2258	HZ3	LYS	239	-4.591	89.643	24.673	1.00	0.00	H
ATOM	2259	C	LYS	239	-1.837	92.037	28.239	1.00	0.00	C
ATOM	2260	O	LYS	239	-1.716	91.710	27.066	1.00	0.00	O
ATOM	2261	N	GLU	240	-1.076	93.015	28.781	1.00	0.00	N
ATOM	2262	HN	GLU	240	-1.200	93.306	29.751	1.00	0.00	H
ATOM	2263	CA	GLU	240	-0.084	93.629	27.938	1.00	0.00	C
ATOM	2264	CB	GLU	240	0.662	94.815	28.574	1.00	0.00	C
ATOM	2265	CG	GLU	240	-0.090	96.147	28.497	1.00	0.00	C
ATOM	2266	CD	GLU	240	-0.929	96.332	29.749	1.00	0.00	C
ATOM	2267	OE1	GLU	240	-1.293	95.301	30.374	1.00	0.00	O
ATOM	2268	OE2	GLU	240	-1.210	97.509	30.101	1.00	0.00	O
ATOM	2269	C	GLU	240	0.925	92.584	27.619	1.00	0.00	C
ATOM	2270	O	GLU	240	1.295	92.406	26.460	1.00	0.00	O
ATOM	2271	N	LEU	241	1.378	91.844	28.649	1.00	0.00	N
ATOM	2272	HN	LEU	241	1.019	92.006	29.590	1.00	0.00	H
ATOM	2273	CA	LEU	241	2.365	90.829	28.423	1.00	0.00	C
ATOM	2274	CB	LEU	241	2.894	90.136	29.695	1.00	0.00	C
ATOM	2275	CG	LEU	241	1.861	90.029	30.824	1.00	0.00	C
ATOM	2276	CD1	LEU	241	2.305	89.049	31.918	1.00	0.00	C
ATOM	2277	CD2	LEU	241	1.621	91.417	31.423	1.00	0.00	C
ATOM	2278	C	LEU	241	1.799	89.754	27.552	1.00	0.00	C
ATOM	2279	O	LEU	241	2.416	89.382	26.561	1.00	0.00	O
ATOM	2280	N	GLU	242	0.592	89.248	27.867	1.00	0.00	N
ATOM	2281	HN	GLU	242	0.073	89.633	28.656	1.00	0.00	H
ATOM	2282	CA	GLU	242	0.029	88.171	27.102	1.00	0.00	C
ATOM	2283	CB	GLU	242	-1.330	87.728	27.679	1.00	0.00	C
ATOM	2284	CG	GLU	242	-1.945	86.479	27.045	1.00	0.00	C
ATOM	2285	CD	GLU	242	-2.987	86.917	26.029	1.00	0.00	C
ATOM	2286	OE1	GLU	242	-2.896	88.073	25.535	1.00	0.00	O
ATOM	2287	OE2	GLU	242	-3.894	86.093	25.733	1.00	0.00	O
ATOM	2288	C	GLU	242	-0.172	88.644	25.700	1.00	0.00	C
ATOM	2289	O	GLU	242	0.155	87.933	24.753	1.00	0.00	O
ATOM	2290	N	ARG	243	-0.674	89.881	25.526	1.00	0.00	N
ATOM	2291	HN	ARG	243	-0.822	90.490	26.331	1.00	0.00	H

ATOM	2292	CA	ARG	243	-0.999	90.339	24.211	1.00	0.00	C
ATOM	2293	CB	ARG	243	-1.615	91.745	24.178	1.00	0.00	C
ATOM	2294	CG	ARG	243	-2.475	91.928	22.929	1.00	0.00	C
ATOM	2295	CD	ARG	243	-1.704	91.742	21.625	1.00	0.00	C
ATOM	2296	NE	ARG	243	-2.689	91.330	20.587	1.00	0.00	N
ATOM	2297	HE	ARG	243	-3.236	92.026	20.080	1.00	0.00	H
ATOM	2298	CZ	ARG	243	-2.841	90.000	20.331	1.00	0.00	C
ATOM	2299	NH1	ARG	243	-2.057	89.098	20.990	1.00	0.00	N
ATOM	2300	1HH1	ARG	243	-1.370	89.420	21.672	1.00	0.00	H
ATOM	2301	2HH1	ARG	243	-2.171	88.103	20.798	1.00	0.00	H
ATOM	2302	NH2	ARG	243	-3.761	89.569	19.417	1.00	0.00	N
ATOM	2303	1HH2	ARG	243	-4.347	90.243	18.924	1.00	0.00	H
ATOM	2304	2HH2	ARG	243	-3.875	88.574	19.225	1.00	0.00	H
ATOM	2305	C	ARG	243	0.237	90.353	23.373	1.00	0.00	C
ATOM	2306	O	ARG	243	0.238	89.802	22.277	1.00	0.00	O
ATOM	2307	N	TYR	244	1.336	90.963	23.853	1.00	0.00	N
ATOM	2308	HN	TYR	244	1.329	91.413	24.768	1.00	0.00	H
ATOM	2309	CA	TYR	244	2.516	90.962	23.042	1.00	0.00	C
ATOM	2310	CB	TYR	244	3.610	91.938	23.502	1.00	0.00	C
ATOM	2311	CG	TYR	244	3.088	93.274	23.104	1.00	0.00	C
ATOM	2312	CD1	TYR	244	2.953	93.577	21.769	1.00	0.00	C
ATOM	2313	CD2	TYR	244	2.747	94.219	24.040	1.00	0.00	C
ATOM	2314	CE1	TYR	244	2.473	94.800	21.366	1.00	0.00	C
ATOM	2315	CE2	TYR	244	2.267	95.446	23.643	1.00	0.00	C
ATOM	2316	CZ	TYR	244	2.127	95.737	22.308	1.00	0.00	C
ATOM	2317	OH	TYR	244	1.632	96.997	21.906	1.00	0.00	O
ATOM	2318	HH	TYR	244	1.393	97.645	22.558	1.00	0.00	H
ATOM	2319	C	TYR	244	3.071	89.576	22.933	1.00	0.00	C
ATOM	2320	O	TYR	244	3.503	89.178	21.854	1.00	0.00	O
ATOM	2321	N	ASN	245	3.056	88.795	24.035	1.00	0.00	N
ATOM	2322	HN	ASN	245	2.631	89.142	24.895	1.00	0.00	H
ATOM	2323	CA	ASN	245	3.636	87.475	24.006	1.00	0.00	C
ATOM	2324	CB	ASN	245	3.254	86.598	25.218	1.00	0.00	C
ATOM	2325	CG	ASN	245	4.044	86.982	26.445	1.00	0.00	C
ATOM	2326	OD1	ASN	245	3.935	86.354	27.498	1.00	0.00	O
ATOM	2327	ND2	ASN	245	4.870	88.044	26.300	1.00	0.00	N
ATOM	2328	1HD2	ASN	245	5.404	88.304	27.129	1.00	0.00	H
ATOM	2329	2HD2	ASN	245	4.960	88.564	25.427	1.00	0.00	H
ATOM	2330	C	ASN	245	3.045	86.686	22.889	1.00	0.00	C
ATOM	2331	O	ASN	245	3.705	86.427	21.890	1.00	0.00	O
ATOM	2332	N	LYS	246	1.746	86.366	23.014	1.00	0.00	N
ATOM	2333	HN	LYS	246	1.232	86.767	23.798	1.00	0.00	H
ATOM	2334	CA	LYS	246	1.034	85.501	22.123	1.00	0.00	C
ATOM	2335	CB	LYS	246	-0.368	85.178	22.668	1.00	0.00	C
ATOM	2336	CG	LYS	246	-0.929	83.837	22.198	1.00	0.00	C
ATOM	2337	CD	LYS	246	-1.987	83.285	23.157	1.00	0.00	C
ATOM	2338	CE	LYS	246	-2.356	81.821	22.908	1.00	0.00	C
ATOM	2339	NZ	LYS	246	-2.946	81.232	24.133	1.00	0.00	N
ATOM	2340	HZ1	LYS	246	-3.192	80.256	23.967	1.00	0.00	H
ATOM	2341	HZ2	LYS	246	-3.740	81.774	24.474	1.00	0.00	H
ATOM	2342	HZ3	LYS	246	-2.334	81.340	24.942	1.00	0.00	H
ATOM	2343	C	LYS	246	0.945	86.156	20.791	1.00	0.00	C
ATOM	2344	O	LYS	246	0.849	85.473	19.776	1.00	0.00	O
ATOM	2345	N	ASN	247	0.928	87.502	20.750	1.00	0.00	N
ATOM	2346	HN	ASN	247	1.006	88.058	21.602	1.00	0.00	H
ATOM	2347	CA	ASN	247	0.797	88.123	19.468	1.00	0.00	C
ATOM	2348	CB	ASN	247	0.676	89.650	19.545	1.00	0.00	C
ATOM	2349	CG	ASN	247	0.358	90.129	18.136	1.00	0.00	C
ATOM	2350	OD1	ASN	247	1.251	90.488	17.372	1.00	0.00	O
ATOM	2351	ND2	ASN	247	-0.951	90.103	17.771	1.00	0.00	N
ATOM	2352	1HD2	ASN	247	-1.164	90.424	16.827	1.00	0.00	H
ATOM	2353	2HD2	ASN	247	-1.692	89.805	18.405	1.00	0.00	H
ATOM	2354	C	ASN	247	1.976	87.796	18.602	1.00	0.00	C
ATOM	2355	O	ASN	247	1.833	87.091	17.605	1.00	0.00	O
ATOM	2356	N	LEU	248	3.189	88.244	18.995	1.00	0.00	N
ATOM	2357	HN	LEU	248	3.272	88.750	19.877	1.00	0.00	H
ATOM	2358	CA	LEU	248	4.361	88.024	18.199	1.00	0.00	C
ATOM	2359	CB	LEU	248	5.608	88.725	18.766	1.00	0.00	C
ATOM	2360	CG	LEU	248	5.538	90.263	18.703	1.00	0.00	C
ATOM	2361	CD1	LEU	248	5.549	90.758	17.248	1.00	0.00	C
ATOM	2362	CD2	LEU	248	4.347	90.812	19.507	1.00	0.00	C
ATOM	2363	C	LEU	248	4.639	86.559	18.176	1.00	0.00	C
ATOM	2364	O	LEU	248	4.937	85.997	17.124	1.00	0.00	O
ATOM	2365	N	GLU	249	4.517	85.889	19.338	1.00	0.00	N

ATOM	2366	HN	GLU	249	4.196	86.369	20.179	1.00	0.00	H
ATOM	2367	CA	GLU	249	4.842	84.496	19.380	1.00	0.00	C
ATOM	2368	CB	GLU	249	4.629	83.800	20.735	1.00	0.00	C
ATOM	2369	CG	GLU	249	5.769	83.975	21.734	1.00	0.00	C
ATOM	2370	CD	GLU	249	5.621	82.861	22.763	1.00	0.00	C
ATOM	2371	OE1	GLU	249	4.579	82.839	23.469	1.00	0.00	O
ATOM	2372	OE2	GLU	249	6.543	82.005	22.842	1.00	0.00	O
ATOM	2373	C	GLU	249	3.990	83.757	18.437	1.00	0.00	C
ATOM	2374	O	GLU	249	4.543	83.029	17.641	1.00	0.00	O
ATOM	2375	N	GLU	250	2.659	83.940	18.450	1.00	0.00	N
ATOM	2376	HN	GLU	250	2.263	84.640	19.077	1.00	0.00	H
ATOM	2377	CA	GLU	250	1.776	83.180	17.607	1.00	0.00	C
ATOM	2378	CB	GLU	250	0.313	83.594	17.860	1.00	0.00	C
ATOM	2379	CG	GLU	250	-0.764	82.589	17.458	1.00	0.00	C
ATOM	2380	CD	GLU	250	-2.058	83.062	18.112	1.00	0.00	C
ATOM	2381	OE1	GLU	250	-1.959	83.804	19.126	1.00	0.00	O
ATOM	2382	OE2	GLU	250	-3.157	82.694	17.617	1.00	0.00	O
ATOM	2383	C	GLU	250	2.123	83.475	16.183	1.00	0.00	C
ATOM	2384	O	GLU	250	2.212	82.562	15.363	1.00	0.00	O
ATOM	2385	N	ALA	251	2.381	84.758	15.861	1.00	0.00	N
ATOM	2386	HN	ALA	251	2.435	85.470	16.590	1.00	0.00	H
ATOM	2387	CA	ALA	251	2.579	85.115	14.487	1.00	0.00	C
ATOM	2388	CB	ALA	251	2.853	86.616	14.309	1.00	0.00	C
ATOM	2389	C	ALA	251	3.748	84.376	13.925	1.00	0.00	C
ATOM	2390	O	ALA	251	3.603	83.617	12.971	1.00	0.00	O
ATOM	2391	N	LYS	252	4.920	84.525	14.556	1.00	0.00	N
ATOM	2392	HN	LYS	252	4.947	85.131	15.376	1.00	0.00	H
ATOM	2393	CA	LYS	252	6.135	83.889	14.153	1.00	0.00	C
ATOM	2394	CB	LYS	252	7.341	84.373	14.970	1.00	0.00	C
ATOM	2395	CG	LYS	252	7.441	85.895	15.083	1.00	0.00	C
ATOM	2396	CD	LYS	252	7.439	86.632	13.745	1.00	0.00	C
ATOM	2397	CE	LYS	252	7.564	88.150	13.893	1.00	0.00	C
ATOM	2398	NZ	LYS	252	6.439	88.678	14.694	1.00	0.00	N
ATOM	2399	HZ1	LYS	252	6.522	89.690	14.793	1.00	0.00	H
ATOM	2400	HZ2	LYS	252	6.363	88.212	15.598	1.00	0.00	H
ATOM	2401	HZ3	LYS	252	5.535	88.406	14.308	1.00	0.00	H
ATOM	2402	C	LYS	252	5.958	82.446	14.473	1.00	0.00	C
ATOM	2403	O	LYS	252	6.764	81.616	14.076	1.00	0.00	O
ATOM	2404	N	ARG	253	4.994	82.104	15.336	1.00	0.00	N
ATOM	2405	HN	ARG	253	4.368	82.805	15.732	1.00	0.00	H
ATOM	2406	CA	ARG	253	4.872	80.724	15.683	1.00	0.00	C
ATOM	2407	CB	ARG	253	3.730	80.347	16.649	1.00	0.00	C
ATOM	2408	CG	ARG	253	4.046	80.403	18.148	1.00	0.00	C
ATOM	2409	CD	ARG	253	5.356	79.726	18.559	1.00	0.00	C
ATOM	2410	NE	ARG	253	6.155	80.733	19.313	1.00	0.00	N
ATOM	2411	HE	ARG	253	6.083	80.779	20.329	1.00	0.00	H
ATOM	2412	CZ	ARG	253	6.983	81.595	18.653	1.00	0.00	C
ATOM	2413	NH1	ARG	253	7.098	81.523	17.294	1.00	0.00	N
ATOM	2414	1HH1	ARG	253	7.717	82.167	16.801	1.00	0.00	H
ATOM	2415	2HH1	ARG	253	6.570	80.824	16.771	1.00	0.00	H
ATOM	2416	NH2	ARG	253	7.688	82.529	19.352	1.00	0.00	N
ATOM	2417	1HH2	ARG	253	8.307	83.173	18.859	1.00	0.00	H
ATOM	2418	2HH2	ARG	253	7.602	82.583	20.367	1.00	0.00	H
ATOM	2419	C	ARG	253	4.545	80.042	14.447	1.00	0.00	C
ATOM	2420	O	ARG	253	5.430	79.466	13.851	1.00	0.00	O
ATOM	2421	N	ILE	254	3.318	80.265	13.951	1.00	0.00	N
ATOM	2422	HN	ILE	254	2.702	80.910	14.446	1.00	0.00	H
ATOM	2423	CA	ILE	254	2.838	79.644	12.768	1.00	0.00	C
ATOM	2424	CB	ILE	254	1.415	80.001	12.447	1.00	0.00	C
ATOM	2425	CG1	ILE	254	1.269	81.512	12.201	1.00	0.00	C
ATOM	2426	CG2	ILE	254	0.529	79.463	13.580	1.00	0.00	C
ATOM	2427	CD1	ILE	254	-0.085	81.902	11.614	1.00	0.00	C
ATOM	2428	C	ILE	254	3.697	80.106	11.650	1.00	0.00	C
ATOM	2429	O	ILE	254	3.881	79.356	10.706	1.00	0.00	O
ATOM	2430	N	GLY	255	4.173	81.370	11.677	1.00	0.00	N
ATOM	2431	HN	GLY	255	3.963	81.964	12.479	1.00	0.00	H
ATOM	2432	CA	GLY	255	4.973	81.901	10.597	1.00	0.00	C
ATOM	2433	C	GLY	255	6.321	81.241	10.465	1.00	0.00	C
ATOM	2434	O	GLY	255	6.658	80.718	9.406	1.00	0.00	O
ATOM	2435	N	ILE	256	7.118	81.238	11.550	1.00	0.00	N
ATOM	2436	HN	ILE	256	6.756	81.691	12.389	1.00	0.00	H
ATOM	2437	CA	ILE	256	8.432	80.656	11.639	1.00	0.00	C
ATOM	2438	CB	ILE	256	9.143	80.857	12.960	1.00	0.00	C
ATOM	2439	CG1	ILE	256	10.680	80.882	12.807	1.00	0.00	C

ATOM	2440	CG2	ILE	256	8.710	79.710	13.893	1.00	0.00	C
ATOM	2441	CD1	ILE	256	11.336	79.564	12.395	1.00	0.00	C
ATOM	2442	C	ILE	256	8.165	79.218	11.522	1.00	0.00	C
ATOM	2443	O	ILE	256	9.084	78.444	11.336	1.00	0.00	O
ATOM	2444	N	LYS	257	6.939	78.817	11.879	1.00	0.00	N
ATOM	2445	HN	LYS	257	6.308	79.514	12.275	1.00	0.00	H
ATOM	2446	CA	LYS	257	6.454	77.482	11.743	1.00	0.00	C
ATOM	2447	CB	LYS	257	5.438	76.995	12.778	1.00	0.00	C
ATOM	2448	CG	LYS	257	6.217	76.852	14.087	1.00	0.00	C
ATOM	2449	CD	LYS	257	5.403	76.753	15.357	1.00	0.00	C
ATOM	2450	CE	LYS	257	6.234	76.439	16.605	1.00	0.00	C
ATOM	2451	NZ	LYS	257	7.125	77.574	16.932	1.00	0.00	N
ATOM	2452	HZ1	LYS	257	7.678	77.365	17.763	1.00	0.00	H
ATOM	2453	HZ2	LYS	257	6.607	78.447	17.031	1.00	0.00	H
ATOM	2454	HZ3	LYS	257	7.713	77.835	16.140	1.00	0.00	H
ATOM	2455	C	LYS	257	6.026	77.206	10.352	1.00	0.00	C
ATOM	2456	O	LYS	257	5.679	76.077	10.040	1.00	0.00	O
ATOM	2457	N	LYS	258	5.844	78.240	9.524	1.00	0.00	N
ATOM	2458	HN	LYS	258	5.891	79.191	9.890	1.00	0.00	H
ATOM	2459	CA	LYS	258	5.585	78.035	8.138	1.00	0.00	C
ATOM	2460	CB	LYS	258	5.170	79.307	7.391	1.00	0.00	C
ATOM	2461	CG	LYS	258	5.024	79.083	5.886	1.00	0.00	C
ATOM	2462	CD	LYS	258	4.278	80.206	5.168	1.00	0.00	C
ATOM	2463	CE	LYS	258	4.624	80.310	3.681	1.00	0.00	C
ATOM	2464	NZ	LYS	258	4.304	79.044	2.987	1.00	0.00	N
ATOM	2465	HZ1	LYS	258	4.535	79.113	1.996	1.00	0.00	H
ATOM	2466	HZ2	LYS	258	3.333	78.766	3.132	1.00	0.00	H
ATOM	2467	HZ3	LYS	258	4.758	78.244	3.428	1.00	0.00	H
ATOM	2468	C	LYS	258	6.902	77.619	7.644	1.00	0.00	C
ATOM	2469	O	LYS	258	7.009	76.819	6.724	1.00	0.00	O
ATOM	2470	N	ALA	259	7.927	78.268	8.224	1.00	0.00	N
ATOM	2471	HN	ALA	259	7.689	79.049	8.835	1.00	0.00	H
ATOM	2472	CA	ALA	259	9.311	77.974	8.071	1.00	0.00	C
ATOM	2473	CB	ALA	259	10.228	79.029	8.705	1.00	0.00	C
ATOM	2474	C	ALA	259	9.594	76.678	8.766	1.00	0.00	C
ATOM	2475	O	ALA	259	10.482	75.963	8.332	1.00	0.00	O
ATOM	2476	N	ILE	260	8.946	76.370	9.917	1.00	0.00	N
ATOM	2477	HN	ILE	260	8.219	76.984	10.284	1.00	0.00	H
ATOM	2478	CA	ILE	260	9.302	75.164	10.610	1.00	0.00	C
ATOM	2479	CB	ILE	260	8.926	74.981	12.052	1.00	0.00	C
ATOM	2480	CG1	ILE	260	7.434	74.774	12.298	1.00	0.00	C
ATOM	2481	CG2	ILE	260	9.533	76.160	12.814	1.00	0.00	C
ATOM	2482	CD1	ILE	260	7.180	74.112	13.652	1.00	0.00	C
ATOM	2483	C	ILE	260	8.706	74.062	9.856	1.00	0.00	C
ATOM	2484	O	ILE	260	9.359	73.075	9.556	1.00	0.00	O
ATOM	2485	N	THR	261	7.435	74.270	9.496	1.00	0.00	N
ATOM	2486	HN	THR	261	6.994	75.127	9.831	1.00	0.00	H
ATOM	2487	CA	THR	261	6.643	73.410	8.692	1.00	0.00	C
ATOM	2488	CB	THR	261	5.183	73.782	8.631	1.00	0.00	C
ATOM	2489	OG1	THR	261	4.631	73.745	9.938	1.00	0.00	O
ATOM	2490	HG1	THR	261	3.711	73.979	9.900	1.00	0.00	H
ATOM	2491	CG2	THR	261	4.420	72.779	7.751	1.00	0.00	C
ATOM	2492	C	THR	261	7.264	73.509	7.348	1.00	0.00	C
ATOM	2493	O	THR	261	6.816	72.842	6.432	1.00	0.00	O
ATOM	2494	N	ALA	262	8.117	74.534	7.149	1.00	0.00	N
ATOM	2495	HN	ALA	262	8.144	75.246	7.879	1.00	0.00	H
ATOM	2496	CA	ALA	262	8.995	74.740	6.024	1.00	0.00	C
ATOM	2497	CB	ALA	262	9.486	76.171	5.779	1.00	0.00	C
ATOM	2498	C	ALA	262	10.227	73.908	6.136	1.00	0.00	C
ATOM	2499	O	ALA	262	10.896	73.698	5.135	1.00	0.00	O
ATOM	2500	N	ASN	263	10.690	73.611	7.366	1.00	0.00	N
ATOM	2501	HN	ASN	263	10.237	74.020	8.183	1.00	0.00	H
ATOM	2502	CA	ASN	263	11.801	72.736	7.546	1.00	0.00	C
ATOM	2503	CB	ASN	263	12.321	72.683	8.989	1.00	0.00	C
ATOM	2504	CG	ASN	263	13.559	71.797	8.995	1.00	0.00	C
ATOM	2505	OD1	ASN	263	13.618	70.777	8.309	1.00	0.00	O
ATOM	2506	ND2	ASN	263	14.583	72.204	9.792	1.00	0.00	N
ATOM	2507	1HD2	ASN	263	15.412	71.610	9.796	1.00	0.00	H
ATOM	2508	2HD2	ASN	263	14.534	73.049	10.361	1.00	0.00	H
ATOM	2509	C	ASN	263	11.159	71.442	7.247	1.00	0.00	C
ATOM	2510	O	ASN	263	11.703	70.535	6.626	1.00	0.00	O
ATOM	2511	N	ILE	264	9.908	71.356	7.702	1.00	0.00	N
ATOM	2512	HN	ILE	264	9.501	72.132	8.225	1.00	0.00	H
ATOM	2513	CA	ILE	264	9.147	70.193	7.460	1.00	0.00	C

ATOM	2514	CB	ILE	264	7.778	70.280	8.070	1.00	0.00	C
ATOM	2515	CG1	ILE	264	7.871	70.351	9.606	1.00	0.00	C
ATOM	2516	CG2	ILE	264	6.955	69.094	7.548	1.00	0.00	C
ATOM	2517	CD1	ILE	264	8.535	69.124	10.232	1.00	0.00	C
ATOM	2518	C	ILE	264	8.994	70.150	5.988	1.00	0.00	C
ATOM	2519	O	ILE	264	9.329	69.174	5.325	1.00	0.00	O
ATOM	2520	N	SER	265	8.583	71.293	5.436	1.00	0.00	N
ATOM	2521	HN	SER	265	8.449	72.104	6.039	1.00	0.00	H
ATOM	2522	CA	SER	265	8.324	71.431	4.047	1.00	0.00	C
ATOM	2523	CB	SER	265	7.778	72.808	3.625	1.00	0.00	C
ATOM	2524	OG	SER	265	6.388	72.904	3.902	1.00	0.00	O
ATOM	2525	HG	SER	265	6.051	73.753	3.642	1.00	0.00	H
ATOM	2526	C	SER	265	9.617	71.236	3.360	1.00	0.00	C
ATOM	2527	O	SER	265	9.635	71.056	2.148	1.00	0.00	O
ATOM	2528	N	ILE	266	10.731	71.373	4.106	1.00	0.00	N
ATOM	2529	HN	ILE	266	10.652	71.604	5.096	1.00	0.00	H
ATOM	2530	CA	ILE	266	12.023	71.197	3.520	1.00	0.00	C
ATOM	2531	CB	ILE	266	13.214	71.854	4.178	1.00	0.00	C
ATOM	2532	CG1	ILE	266	14.210	72.235	3.066	1.00	0.00	C
ATOM	2533	CG2	ILE	266	13.923	70.862	5.114	1.00	0.00	C
ATOM	2534	CD1	ILE	266	13.681	73.293	2.097	1.00	0.00	C
ATOM	2535	C	ILE	266	12.266	69.740	3.403	1.00	0.00	C
ATOM	2536	O	ILE	266	12.864	69.287	2.432	1.00	0.00	O
ATOM	2537	N	GLY	267	11.824	68.972	4.421	1.00	0.00	N
ATOM	2538	HN	GLY	267	11.379	69.397	5.234	1.00	0.00	H
ATOM	2539	CA	GLY	267	11.988	67.553	4.343	1.00	0.00	C
ATOM	2540	C	GLY	267	11.234	67.212	3.105	1.00	0.00	C
ATOM	2541	O	GLY	267	11.654	66.400	2.282	1.00	0.00	O
ATOM	2542	N	ALA	268	10.098	67.910	2.945	1.00	0.00	N
ATOM	2543	HN	ALA	268	9.815	68.555	3.683	1.00	0.00	H
ATOM	2544	CA	ALA	268	9.272	67.791	1.793	1.00	0.00	C
ATOM	2545	CB	ALA	268	8.004	68.658	1.882	1.00	0.00	C
ATOM	2546	C	ALA	268	10.057	68.241	0.596	1.00	0.00	C
ATOM	2547	O	ALA	268	9.894	67.683	-0.482	1.00	0.00	O
ATOM	2548	N	ALA	269	10.892	69.294	0.715	1.00	0.00	N
ATOM	2549	HN	ALA	269	11.014	69.759	1.614	1.00	0.00	H
ATOM	2550	CA	ALA	269	11.605	69.749	-0.444	1.00	0.00	C
ATOM	2551	CB	ALA	269	12.443	71.006	-0.164	1.00	0.00	C
ATOM	2552	C	ALA	269	12.553	68.687	-0.890	1.00	0.00	C
ATOM	2553	O	ALA	269	12.315	68.060	-1.918	1.00	0.00	O
ATOM	2554	N	PHE	270	13.531	68.329	-0.024	1.00	0.00	N
ATOM	2555	HN	PHE	270	13.539	68.731	0.913	1.00	0.00	H
ATOM	2556	CA	PHE	270	14.556	67.396	-0.396	1.00	0.00	C
ATOM	2557	CB	PHE	270	15.525	66.997	0.732	1.00	0.00	C
ATOM	2558	CG	PHE	270	16.625	67.992	0.835	1.00	0.00	C
ATOM	2559	CD1	PHE	270	17.593	68.029	-0.142	1.00	0.00	C
ATOM	2560	CD2	PHE	270	16.722	68.852	1.904	1.00	0.00	C
ATOM	2561	CE1	PHE	270	18.630	68.926	-0.074	1.00	0.00	C
ATOM	2562	CE2	PHE	270	17.759	69.752	1.978	1.00	0.00	C
ATOM	2563	CZ	PHE	270	18.712	69.792	0.988	1.00	0.00	C
ATOM	2564	C	PHE	270	13.924	66.122	-0.836	1.00	0.00	C
ATOM	2565	O	PHE	270	14.396	65.528	-1.799	1.00	0.00	O
ATOM	2566	N	LEU	271	12.897	65.640	-0.107	1.00	0.00	N
ATOM	2567	HN	LEU	271	12.592	66.165	0.713	1.00	0.00	H
ATOM	2568	CA	LEU	271	12.211	64.414	-0.437	1.00	0.00	C
ATOM	2569	CB	LEU	271	11.279	63.898	0.680	1.00	0.00	C
ATOM	2570	CG	LEU	271	12.015	63.337	1.913	1.00	0.00	C
ATOM	2571	CD1	LEU	271	11.034	62.742	2.941	1.00	0.00	C
ATOM	2572	CD2	LEU	271	13.100	62.334	1.491	1.00	0.00	C
ATOM	2573	C	LEU	271	11.371	64.505	-1.688	1.00	0.00	C
ATOM	2574	O	LEU	271	11.418	63.613	-2.533	1.00	0.00	O
ATOM	2575	N	LEU	272	10.572	65.579	-1.847	1.00	0.00	N
ATOM	2576	HN	LEU	272	10.576	66.308	-1.134	1.00	0.00	H
ATOM	2577	CA	LEU	272	9.713	65.727	-2.994	1.00	0.00	C
ATOM	2578	CB	LEU	272	8.940	67.060	-2.978	1.00	0.00	C
ATOM	2579	CG	LEU	272	8.105	67.331	-4.242	1.00	0.00	C
ATOM	2580	CD1	LEU	272	7.017	66.263	-4.427	1.00	0.00	C
ATOM	2581	CD2	LEU	272	7.543	68.765	-4.247	1.00	0.00	C
ATOM	2582	C	LEU	272	10.608	65.743	-4.184	1.00	0.00	C
ATOM	2583	O	LEU	272	10.368	65.061	-5.178	1.00	0.00	O
ATOM	2584	N	ILE	273	11.685	66.533	-4.072	1.00	0.00	N
ATOM	2585	HN	ILE	273	11.773	67.085	-3.219	1.00	0.00	H
ATOM	2586	CA	ILE	273	12.723	66.668	-5.049	1.00	0.00	C
ATOM	2587	CB	ILE	273	13.710	67.743	-4.703	1.00	0.00	C

ATOM	2588	CG1	ILE	273	13.009	69.105	-4.796	1.00	0.00	C
ATOM	2589	CG2	ILE	273	14.936	67.607	-5.623	1.00	0.00	C
ATOM	2590	CD1	ILE	273	12.433	69.361	-6.188	1.00	0.00	C
ATOM	2591	C	ILE	273	13.436	65.365	-5.136	1.00	0.00	C
ATOM	2592	O	ILE	273	14.065	65.056	-6.145	1.00	0.00	O
ATOM	2593	N	TYR	274	13.451	64.611	-4.026	1.00	0.00	N
ATOM	2594	HN	TYR	274	12.995	64.947	-3.178	1.00	0.00	H
ATOM	2595	CA	TYR	274	14.101	63.343	-4.026	1.00	0.00	C
ATOM	2596	CB	TYR	274	14.079	62.679	-2.636	1.00	0.00	C
ATOM	2597	CG	TYR	274	14.385	61.226	-2.763	1.00	0.00	C
ATOM	2598	CD1	TYR	274	15.666	60.763	-2.962	1.00	0.00	C
ATOM	2599	CD2	TYR	274	13.356	60.318	-2.697	1.00	0.00	C
ATOM	2600	CE1	TYR	274	15.911	59.413	-3.077	1.00	0.00	C
ATOM	2601	CE2	TYR	274	13.588	58.968	-2.809	1.00	0.00	C
ATOM	2602	CZ	TYR	274	14.870	58.515	-2.999	1.00	0.00	C
ATOM	2603	OH	TYR	274	15.112	57.130	-3.116	1.00	0.00	O
ATOM	2604	HH	TYR	274	15.999	56.817	-3.247	1.00	0.00	H
ATOM	2605	C	TYR	274	13.387	62.495	-5.018	1.00	0.00	C
ATOM	2606	O	TYR	274	13.999	62.009	-5.953	1.00	0.00	O
ATOM	2607	N	ALA	275	12.054	62.389	-4.926	1.00	0.00	N
ATOM	2608	HN	ALA	275	11.562	62.904	-4.196	1.00	0.00	H
ATOM	2609	CA	ALA	275	11.304	61.569	-5.829	1.00	0.00	C
ATOM	2610	CB	ALA	275	9.795	61.563	-5.529	1.00	0.00	C
ATOM	2611	C	ALA	275	11.497	62.105	-7.205	1.00	0.00	C
ATOM	2612	O	ALA	275	11.450	61.344	-8.169	1.00	0.00	O
ATOM	2613	N	SER	276	11.668	63.438	-7.334	1.00	0.00	N
ATOM	2614	HN	SER	276	11.662	64.040	-6.511	1.00	0.00	H
ATOM	2615	CA	SER	276	11.858	63.998	-8.638	1.00	0.00	C
ATOM	2616	CB	SER	276	11.973	65.535	-8.692	1.00	0.00	C
ATOM	2617	OG	SER	276	13.302	65.955	-8.429	1.00	0.00	O
ATOM	2618	HG	SER	276	13.373	66.902	-8.462	1.00	0.00	H
ATOM	2619	C	SER	276	13.128	63.425	-9.169	1.00	0.00	C
ATOM	2620	O	SER	276	13.233	63.172	-10.368	1.00	0.00	O
ATOM	2621	N	TYR	277	14.112	63.168	-8.279	1.00	0.00	N
ATOM	2622	HN	TYR	277	13.962	63.371	-7.291	1.00	0.00	H
ATOM	2623	CA	TYR	277	15.362	62.615	-8.703	1.00	0.00	C
ATOM	2624	CB	TYR	277	16.366	62.310	-7.564	1.00	0.00	C
ATOM	2625	CG	TYR	277	16.592	60.844	-7.302	1.00	0.00	C
ATOM	2626	CD1	TYR	277	15.798	60.088	-6.473	1.00	0.00	C
ATOM	2627	CD2	TYR	277	17.659	60.205	-7.885	1.00	0.00	C
ATOM	2628	CE1	TYR	277	16.015	58.757	-6.227	1.00	0.00	C
ATOM	2629	CE2	TYR	277	17.892	58.871	-7.645	1.00	0.00	C
ATOM	2630	CZ	TYR	277	17.080	58.141	-6.820	1.00	0.00	C
ATOM	2631	OH	TYR	277	17.338	56.773	-6.589	1.00	0.00	O
ATOM	2632	HH	TYR	277	16.774	56.266	-6.016	1.00	0.00	H
ATOM	2633	C	TYR	277	14.959	61.334	-9.319	1.00	0.00	C
ATOM	2634	O	TYR	277	15.351	61.060	-10.439	1.00	0.00	O
ATOM	2635	N	ALA	278	14.056	60.586	-8.661	1.00	0.00	N
ATOM	2636	HN	ALA	278	13.683	60.923	-7.773	1.00	0.00	H
ATOM	2637	CA	ALA	278	13.605	59.330	-9.174	1.00	0.00	C
ATOM	2638	CB	ALA	278	12.517	58.691	-8.291	1.00	0.00	C
ATOM	2639	C	ALA	278	13.019	59.578	-10.533	1.00	0.00	C
ATOM	2640	O	ALA	278	13.223	58.789	-11.453	1.00	0.00	O
ATOM	2641	N	LEU	279	12.295	60.699	-10.705	1.00	0.00	N
ATOM	2642	HN	LEU	279	12.212	61.358	-9.931	1.00	0.00	H
ATOM	2643	CA	LEU	279	11.635	60.995	-11.947	1.00	0.00	C
ATOM	2644	CB	LEU	279	11.069	62.424	-11.865	1.00	0.00	C
ATOM	2645	CG	LEU	279	10.291	62.945	-13.077	1.00	0.00	C
ATOM	2646	CD1	LEU	279	8.860	62.392	-13.080	1.00	0.00	C
ATOM	2647	CD2	LEU	279	10.353	64.479	-13.152	1.00	0.00	C
ATOM	2648	C	LEU	279	12.632	60.999	-13.077	1.00	0.00	C
ATOM	2649	O	LEU	279	12.678	60.084	-13.893	1.00	0.00	O
ATOM	2650	N	ALA	280	13.553	61.974	-13.094	1.00	0.00	N
ATOM	2651	HN	ALA	280	13.589	62.651	-12.332	1.00	0.00	H
ATOM	2652	CA	ALA	280	14.489	62.071	-14.178	1.00	0.00	C
ATOM	2653	CB	ALA	280	15.441	63.271	-14.039	1.00	0.00	C
ATOM	2654	C	ALA	280	15.305	60.837	-14.143	1.00	0.00	C
ATOM	2655	O	ALA	280	15.739	60.337	-15.179	1.00	0.00	O
ATOM	2656	N	PHE	281	15.530	60.329	-12.921	1.00	0.00	N
ATOM	2657	HN	PHE	281	15.089	60.776	-12.117	1.00	0.00	H
ATOM	2658	CA	PHE	281	16.361	59.189	-12.701	1.00	0.00	C
ATOM	2659	CB	PHE	281	16.163	58.625	-11.291	1.00	0.00	C
ATOM	2660	CG	PHE	281	17.145	57.582	-10.915	1.00	0.00	C
ATOM	2661	CD1	PHE	281	18.346	57.961	-10.377	1.00	0.00	C

ATOM	2662	CD2	PHE	281	16.875	56.245	-11.075	1.00	0.00	C
ATOM	2663	CE1	PHE	281	19.271	57.028	-9.988	1.00	0.00	C
ATOM	2664	CE2	PHE	281	17.801	55.303	-10.693	1.00	0.00	C
ATOM	2665	CZ	PHE	281	18.999	55.693	-10.143	1.00	0.00	C
ATOM	2666	C	PHE	281	15.865	58.119	-13.589	1.00	0.00	C
ATOM	2667	O	PHE	281	16.450	57.848	-14.629	1.00	0.00	O
ATOM	2668	N	TRP	282	14.684	57.583	-13.270	1.00	0.00	N
ATOM	2669	HN	TRP	282	14.136	57.971	-12.502	1.00	0.00	H
ATOM	2670	CA	TRP	282	14.194	56.470	-14.006	1.00	0.00	C
ATOM	2671	CB	TRP	282	12.966	55.813	-13.364	1.00	0.00	C
ATOM	2672	CG	TRP	282	13.321	55.163	-12.056	1.00	0.00	C
ATOM	2673	CD2	TRP	282	14.368	54.192	-11.932	1.00	0.00	C
ATOM	2674	CD1	TRP	282	12.835	55.379	-10.799	1.00	0.00	C
ATOM	2675	NE1	TRP	282	13.515	54.596	-9.897	1.00	0.00	N
ATOM	2676	HE1	TRP	282	13.348	54.563	-8.891	1.00	0.00	H
ATOM	2677	CE2	TRP	282	14.462	53.862	-10.582	1.00	0.00	C
ATOM	2678	CE3	TRP	282	15.187	53.629	-12.869	1.00	0.00	C
ATOM	2679	CZ2	TRP	282	15.383	52.955	-10.145	1.00	0.00	C
ATOM	2680	CZ3	TRP	282	16.111	52.708	-12.428	1.00	0.00	C
ATOM	2681	CH2	TRP	282	16.204	52.380	-11.092	1.00	0.00	C
ATOM	2682	C	TRP	282	13.851	56.867	-15.398	1.00	0.00	C
ATOM	2683	O	TRP	282	14.103	56.102	-16.326	1.00	0.00	O
ATOM	2684	N	TYR	283	13.257	58.060	-15.599	1.00	0.00	N
ATOM	2685	HN	TYR	283	13.135	58.743	-14.851	1.00	0.00	H
ATOM	2686	CA	TYR	283	12.809	58.301	-16.937	1.00	0.00	C
ATOM	2687	CB	TYR	283	11.969	59.574	-17.133	1.00	0.00	C
ATOM	2688	CG	TYR	283	11.148	59.292	-18.353	1.00	0.00	C
ATOM	2689	CD1	TYR	283	11.589	59.569	-19.628	1.00	0.00	C
ATOM	2690	CD2	TYR	283	9.911	58.707	-18.202	1.00	0.00	C
ATOM	2691	CE1	TYR	283	10.801	59.277	-20.721	1.00	0.00	C
ATOM	2692	CE2	TYR	283	9.119	58.414	-19.286	1.00	0.00	C
ATOM	2693	CZ	TYR	283	9.563	58.700	-20.553	1.00	0.00	C
ATOM	2694	OH	TYR	283	8.757	58.400	-21.673	1.00	0.00	O
ATOM	2695	HH	TYR	283	7.902	58.002	-21.557	1.00	0.00	H
ATOM	2696	C	TYR	283	13.975	58.379	-17.877	1.00	0.00	C
ATOM	2697	O	TYR	283	14.051	57.618	-18.836	1.00	0.00	O
ATOM	2698	N	GLY	284	14.972	59.233	-17.583	1.00	0.00	N
ATOM	2699	HN	GLY	284	14.939	59.766	-16.714	1.00	0.00	H
ATOM	2700	CA	GLY	284	16.080	59.403	-18.477	1.00	0.00	C
ATOM	2701	C	GLY	284	16.747	58.078	-18.597	1.00	0.00	C
ATOM	2702	O	GLY	284	17.339	57.761	-19.628	1.00	0.00	O
ATOM	2703	N	THR	285	16.725	57.303	-17.499	1.00	0.00	N
ATOM	2704	HN	THR	285	16.259	57.638	-16.656	1.00	0.00	H
ATOM	2705	CA	THR	285	17.346	56.017	-17.498	1.00	0.00	C
ATOM	2706	CB	THR	285	17.366	55.344	-16.160	1.00	0.00	C
ATOM	2707	OG1	THR	285	18.187	56.066	-15.256	1.00	0.00	O
ATOM	2708	HG1	THR	285	18.200	55.639	-14.407	1.00	0.00	H
ATOM	2709	CG2	THR	285	17.888	53.910	-16.339	1.00	0.00	C
ATOM	2710	C	THR	285	16.664	55.083	-18.432	1.00	0.00	C
ATOM	2711	O	THR	285	17.315	54.459	-19.264	1.00	0.00	O
ATOM	2712	N	THR	286	15.329	54.985	-18.347	1.00	0.00	N
ATOM	2713	HN	THR	286	14.809	55.602	-17.724	1.00	0.00	H
ATOM	2714	CA	THR	286	14.641	54.014	-19.132	1.00	0.00	C
ATOM	2715	CB	THR	286	13.169	53.944	-18.842	1.00	0.00	C
ATOM	2716	OG1	THR	286	12.598	52.824	-19.501	1.00	0.00	O
ATOM	2717	HG1	THR	286	13.022	52.020	-19.224	1.00	0.00	H
ATOM	2718	CG2	THR	286	12.483	55.245	-19.290	1.00	0.00	C
ATOM	2719	C	THR	286	14.843	54.307	-20.584	1.00	0.00	C
ATOM	2720	O	THR	286	15.169	53.404	-21.353	1.00	0.00	O
ATOM	2721	N	LEU	287	14.708	55.584	-20.994	1.00	0.00	N
ATOM	2722	HN	LEU	287	14.530	56.327	-20.318	1.00	0.00	H
ATOM	2723	CA	LEU	287	14.818	55.886	-22.393	1.00	0.00	C
ATOM	2724	CB	LEU	287	14.708	57.389	-22.701	1.00	0.00	C
ATOM	2725	CG	LEU	287	14.827	57.706	-24.204	1.00	0.00	C
ATOM	2726	CD1	LEU	287	13.578	57.230	-24.966	1.00	0.00	C
ATOM	2727	CD2	LEU	287	15.175	59.181	-24.454	1.00	0.00	C
ATOM	2728	C	LEU	287	16.180	55.467	-22.844	1.00	0.00	C
ATOM	2729	O	LEU	287	16.336	54.760	-23.836	1.00	0.00	O
ATOM	2730	N	VAL	288	17.202	55.863	-22.072	1.00	0.00	N
ATOM	2731	HN	VAL	288	16.990	56.380	-21.219	1.00	0.00	H
ATOM	2732	CA	VAL	288	18.576	55.600	-22.380	1.00	0.00	C
ATOM	2733	CB	VAL	288	19.535	56.464	-21.599	1.00	0.00	C
ATOM	2734	CG1	VAL	288	20.976	56.227	-22.096	1.00	0.00	C
ATOM	2735	CG2	VAL	288	19.085	57.927	-21.741	1.00	0.00	C

ATOM	2736	C	VAL	288	18.846	54.135	-22.165	1.00	0.00	C
ATOM	2737	O	VAL	288	19.985	53.697	-22.277	1.00	0.00	O
ATOM	2738	N	LEU	289	17.891	53.390	-21.572	1.00	0.00	N
ATOM	2739	HN	LEU	289	17.052	53.841	-21.207	1.00	0.00	H
ATOM	2740	CA	LEU	289	18.045	51.965	-21.449	1.00	0.00	C
ATOM	2741	CB	LEU	289	17.340	51.395	-20.204	1.00	0.00	C
ATOM	2742	CG	LEU	289	17.928	50.057	-19.700	1.00	0.00	C
ATOM	2743	CD1	LEU	289	17.854	48.915	-20.722	1.00	0.00	C
ATOM	2744	CD2	LEU	289	19.358	50.277	-19.187	1.00	0.00	C
ATOM	2745	C	LEU	289	17.501	51.275	-22.669	1.00	0.00	C
ATOM	2746	O	LEU	289	18.009	50.243	-23.095	1.00	0.00	O
ATOM	2747	N	SER	290	16.384	51.790	-23.226	1.00	0.00	N
ATOM	2748	HN	SER	290	15.985	52.646	-22.842	1.00	0.00	H
ATOM	2749	CA	SER	290	15.746	51.160	-24.346	1.00	0.00	C
ATOM	2750	CB	SER	290	14.363	51.764	-24.654	1.00	0.00	C
ATOM	2751	OG	SER	290	13.490	51.571	-23.551	1.00	0.00	O
ATOM	2752	HG	SER	290	12.637	51.944	-23.741	1.00	0.00	H
ATOM	2753	C	SER	290	16.582	51.302	-25.581	1.00	0.00	C
ATOM	2754	O	SER	290	16.805	50.325	-26.296	1.00	0.00	O
ATOM	2755	N	GLY	291	16.997	52.543	-25.918	1.00	0.00	N
ATOM	2756	HN	GLY	291	16.781	53.346	-25.327	1.00	0.00	H
ATOM	2757	CA	GLY	291	17.751	52.702	-27.131	1.00	0.00	C
ATOM	2758	C	GLY	291	19.166	52.198	-27.058	1.00	0.00	C
ATOM	2759	O	GLY	291	19.544	51.245	-27.731	1.00	0.00	O
ATOM	2760	N	GLU	292	19.974	52.780	-26.158	1.00	0.00	N
ATOM	2761	HN	GLU	292	19.576	53.443	-25.493	1.00	0.00	H
ATOM	2762	CA	GLU	292	21.381	52.498	-26.103	1.00	0.00	C
ATOM	2763	CB	GLU	292	22.214	53.784	-26.273	1.00	0.00	C
ATOM	2764	CG	GLU	292	23.731	53.605	-26.203	1.00	0.00	C
ATOM	2765	CD	GLU	292	24.361	54.992	-26.117	1.00	0.00	C
ATOM	2766	OE1	GLU	292	23.752	55.876	-25.455	1.00	0.00	O
ATOM	2767	OE2	GLU	292	25.458	55.186	-26.708	1.00	0.00	O
ATOM	2768	C	GLU	292	21.650	51.997	-24.731	1.00	0.00	C
ATOM	2769	O	GLU	292	20.721	51.964	-23.931	1.00	0.00	O
ATOM	2770	N	TYR	293	22.891	51.508	-24.478	1.00	0.00	N
ATOM	2771	HN	TYR	293	23.521	51.383	-25.270	1.00	0.00	H
ATOM	2772	CA	TYR	293	23.382	51.152	-23.169	1.00	0.00	C
ATOM	2773	CB	TYR	293	23.765	52.427	-22.387	1.00	0.00	C
ATOM	2774	CG	TYR	293	24.487	52.132	-21.116	1.00	0.00	C
ATOM	2775	CD1	TYR	293	25.789	51.685	-21.145	1.00	0.00	C
ATOM	2776	CD2	TYR	293	23.882	52.342	-19.898	1.00	0.00	C
ATOM	2777	CE1	TYR	293	26.470	51.430	-19.978	1.00	0.00	C
ATOM	2778	CE2	TYR	293	24.559	52.089	-18.727	1.00	0.00	C
ATOM	2779	CZ	TYR	293	25.854	51.631	-18.766	1.00	0.00	C
ATOM	2780	OH	TYR	293	26.549	51.374	-17.565	1.00	0.00	O
ATOM	2781	HH	TYR	293	26.123	51.513	-16.727	1.00	0.00	H
ATOM	2782	C	TYR	293	22.320	50.391	-22.425	1.00	0.00	C
ATOM	2783	O	TYR	293	22.022	50.706	-21.274	1.00	0.00	O
ATOM	2784	N	SER	294	21.717	49.361	-23.057	1.00	0.00	N
ATOM	2785	HN	SER	294	22.063	49.034	-23.959	1.00	0.00	H
ATOM	2786	CA	SER	294	20.579	48.732	-22.439	1.00	0.00	C
ATOM	2787	CB	SER	294	19.646	48.079	-23.471	1.00	0.00	C
ATOM	2788	OG	SER	294	20.366	47.122	-24.231	1.00	0.00	O
ATOM	2789	HG	SER	294	19.789	46.718	-24.869	1.00	0.00	H
ATOM	2790	C	SER	294	20.999	47.666	-21.470	1.00	0.00	C
ATOM	2791	O	SER	294	20.849	46.472	-21.728	1.00	0.00	O
ATOM	2792	N	ILE	295	21.626	48.100	-20.362	1.00	0.00	N
ATOM	2793	HN	ILE	295	21.826	49.099	-20.320	1.00	0.00	H
ATOM	2794	CA	ILE	295	22.048	47.320	-19.229	1.00	0.00	C
ATOM	2795	CB	ILE	295	23.379	47.792	-18.722	1.00	0.00	C
ATOM	2796	CG1	ILE	295	23.449	49.329	-18.764	1.00	0.00	C
ATOM	2797	CG2	ILE	295	24.470	47.105	-19.560	1.00	0.00	C
ATOM	2798	CD1	ILE	295	22.324	50.052	-18.042	1.00	0.00	C
ATOM	2799	C	ILE	295	21.076	47.053	-18.097	1.00	0.00	C
ATOM	2800	O	ILE	295	21.109	45.976	-17.504	1.00	0.00	O
ATOM	2801	N	GLY	296	20.248	48.044	-17.678	1.00	0.00	N
ATOM	2802	HN	GLY	296	20.186	48.909	-18.215	1.00	0.00	H
ATOM	2803	CA	GLY	296	19.450	47.888	-16.476	1.00	0.00	C
ATOM	2804	C	GLY	296	20.422	48.149	-15.355	1.00	0.00	C
ATOM	2805	O	GLY	296	20.153	47.905	-14.179	1.00	0.00	O
ATOM	2806	N	GLN	297	21.650	48.498	-15.788	1.00	0.00	N
ATOM	2807	HN	GLN	297	21.736	48.516	-16.804	1.00	0.00	H
ATOM	2808	CA	GLN	297	22.858	48.849	-15.103	1.00	0.00	C
ATOM	2809	CB	GLN	297	24.134	48.318	-15.758	1.00	0.00	C

ATOM	2810	CG	GLN	297	25.223	48.293	-14.696	1.00	0.00	C
ATOM	2811	CD	GLN	297	24.538	47.648	-13.495	1.00	0.00	C
ATOM	2812	OE1	GLN	297	24.155	46.480	-13.539	1.00	0.00	O
ATOM	2813	NE2	GLN	297	24.337	48.439	-12.407	1.00	0.00	N
ATOM	2814	1HE2	GLN	297	23.879	48.008	-11.604	1.00	0.00	H
ATOM	2815	2HE2	GLN	297	24.655	49.408	-12.371	1.00	0.00	H
ATOM	2816	C	GLN	297	23.023	50.308	-14.857	1.00	0.00	C
ATOM	2817	O	GLN	297	23.973	50.727	-14.202	1.00	0.00	O
ATOM	2818	N	VAL	298	22.172	51.160	-15.454	1.00	0.00	N
ATOM	2819	HN	VAL	298	21.413	50.788	-16.026	1.00	0.00	H
ATOM	2820	CA	VAL	298	22.307	52.583	-15.305	1.00	0.00	C
ATOM	2821	CB	VAL	298	21.223	53.307	-16.049	1.00	0.00	C
ATOM	2822	CG1	VAL	298	21.532	54.812	-16.068	1.00	0.00	C
ATOM	2823	CG2	VAL	298	21.074	52.658	-17.435	1.00	0.00	C
ATOM	2824	C	VAL	298	22.177	52.830	-13.831	1.00	0.00	C
ATOM	2825	O	VAL	298	22.675	53.816	-13.285	1.00	0.00	O
ATOM	2826	N	LEU	299	21.524	51.877	-13.143	1.00	0.00	N
ATOM	2827	HN	LEU	299	21.187	51.066	-13.662	1.00	0.00	H
ATOM	2828	CA	LEU	299	21.269	51.917	-11.744	1.00	0.00	C
ATOM	2829	CB	LEU	299	20.825	50.533	-11.249	1.00	0.00	C
ATOM	2830	CG	LEU	299	20.566	50.431	-9.738	1.00	0.00	C
ATOM	2831	CD1	LEU	299	19.364	51.289	-9.314	1.00	0.00	C
ATOM	2832	CD2	LEU	299	20.449	48.960	-9.307	1.00	0.00	C
ATOM	2833	C	LEU	299	22.521	52.269	-11.008	1.00	0.00	C
ATOM	2834	O	LEU	299	22.559	53.340	-10.407	1.00	0.00	O
ATOM	2835	N	THR	300	23.607	51.474	-11.129	1.00	0.00	N
ATOM	2836	HN	THR	300	23.600	50.688	-11.779	1.00	0.00	H
ATOM	2837	CA	THR	300	24.773	51.747	-10.332	1.00	0.00	C
ATOM	2838	CB	THR	300	25.907	50.820	-10.579	1.00	0.00	C
ATOM	2839	OG1	THR	300	25.494	49.520	-10.214	1.00	0.00	O
ATOM	2840	HG1	THR	300	26.219	48.927	-10.372	1.00	0.00	H
ATOM	2841	CG2	THR	300	27.117	51.253	-9.734	1.00	0.00	C
ATOM	2842	C	THR	300	25.264	53.131	-10.572	1.00	0.00	C
ATOM	2843	O	THR	300	25.614	53.830	-9.624	1.00	0.00	O
ATOM	2844	N	VAL	301	25.297	53.576	-11.835	1.00	0.00	N
ATOM	2845	HN	VAL	301	24.954	52.997	-12.602	1.00	0.00	H
ATOM	2846	CA	VAL	301	25.825	54.885	-12.084	1.00	0.00	C
ATOM	2847	CB	VAL	301	25.804	55.203	-13.545	1.00	0.00	C
ATOM	2848	CG1	VAL	301	26.540	56.533	-13.777	1.00	0.00	C
ATOM	2849	CG2	VAL	301	26.342	53.989	-14.315	1.00	0.00	C
ATOM	2850	C	VAL	301	25.001	55.943	-11.396	1.00	0.00	C
ATOM	2851	O	VAL	301	25.430	56.484	-10.379	1.00	0.00	O
ATOM	2852	N	PHE	302	23.741	56.168	-11.844	1.00	0.00	N
ATOM	2853	HN	PHE	302	23.342	55.557	-12.556	1.00	0.00	H
ATOM	2854	CA	PHE	302	22.957	57.266	-11.322	1.00	0.00	C
ATOM	2855	CB	PHE	302	21.515	57.328	-11.849	1.00	0.00	C
ATOM	2856	CG	PHE	302	21.415	57.917	-13.211	1.00	0.00	C
ATOM	2857	CD1	PHE	302	21.749	57.181	-14.321	1.00	0.00	C
ATOM	2858	CD2	PHE	302	20.941	59.201	-13.375	1.00	0.00	C
ATOM	2859	CE1	PHE	302	21.639	57.731	-15.577	1.00	0.00	C
ATOM	2860	CE2	PHE	302	20.829	59.755	-14.629	1.00	0.00	C
ATOM	2861	CZ	PHE	302	21.182	59.018	-15.735	1.00	0.00	C
ATOM	2862	C	PHE	302	22.832	57.139	-9.833	1.00	0.00	C
ATOM	2863	O	PHE	302	23.092	58.091	-9.099	1.00	0.00	O
ATOM	2864	N	PHE	303	22.495	55.936	-9.344	1.00	0.00	N
ATOM	2865	HN	PHE	303	22.382	55.155	-9.990	1.00	0.00	H
ATOM	2866	CA	PHE	303	22.289	55.713	-7.943	1.00	0.00	C
ATOM	2867	CB	PHE	303	21.937	54.235	-7.679	1.00	0.00	C
ATOM	2868	CG	PHE	303	21.682	53.962	-6.235	1.00	0.00	C
ATOM	2869	CD1	PHE	303	20.566	54.475	-5.611	1.00	0.00	C
ATOM	2870	CD2	PHE	303	22.564	53.198	-5.503	1.00	0.00	C
ATOM	2871	CE1	PHE	303	20.331	54.219	-4.280	1.00	0.00	C
ATOM	2872	CE2	PHE	303	22.332	52.936	-4.173	1.00	0.00	C
ATOM	2873	CZ	PHE	303	21.213	53.447	-3.560	1.00	0.00	C
ATOM	2874	C	PHE	303	23.536	56.124	-7.196	1.00	0.00	C
ATOM	2875	O	PHE	303	23.446	56.756	-6.144	1.00	0.00	O
ATOM	2876	N	SER	304	24.733	55.786	-7.722	1.00	0.00	N
ATOM	2877	HN	SER	304	24.747	55.273	-8.603	1.00	0.00	H
ATOM	2878	CA	SER	304	25.994	56.115	-7.099	1.00	0.00	C
ATOM	2879	CB	SER	304	27.224	55.592	-7.861	1.00	0.00	C
ATOM	2880	OG	SER	304	27.329	54.186	-7.741	1.00	0.00	O
ATOM	2881	HG	SER	304	28.088	53.863	-8.212	1.00	0.00	H
ATOM	2882	C	SER	304	26.202	57.592	-7.030	1.00	0.00	C
ATOM	2883	O	SER	304	26.664	58.116	-6.018	1.00	0.00	O

ATOM	2884	N	VAL	305	25.868	58.310	-8.112	1.00	0.00	N
ATOM	2885	HN	VAL	305	25.474	57.845	-8.930	1.00	0.00	H
ATOM	2886	CA	VAL	305	26.064	59.727	-8.120	1.00	0.00	C
ATOM	2887	CB	VAL	305	25.528	60.343	-9.370	1.00	0.00	C
ATOM	2888	CG1	VAL	305	25.461	61.855	-9.159	1.00	0.00	C
ATOM	2889	CG2	VAL	305	26.432	59.925	-10.540	1.00	0.00	C
ATOM	2890	C	VAL	305	25.290	60.282	-6.968	1.00	0.00	C
ATOM	2891	O	VAL	305	25.735	61.197	-6.274	1.00	0.00	O
ATOM	2892	N	LEU	306	24.115	59.688	-6.709	1.00	0.00	N
ATOM	2893	HN	LEU	306	23.830	58.881	-7.264	1.00	0.00	H
ATOM	2894	CA	LEU	306	23.254	60.163	-5.670	1.00	0.00	C
ATOM	2895	CB	LEU	306	22.006	59.279	-5.483	1.00	0.00	C
ATOM	2896	CG	LEU	306	20.923	59.933	-4.603	1.00	0.00	C
ATOM	2897	CD1	LEU	306	20.155	61.009	-5.390	1.00	0.00	C
ATOM	2898	CD2	LEU	306	20.010	58.896	-3.933	1.00	0.00	C
ATOM	2899	C	LEU	306	24.026	60.098	-4.385	1.00	0.00	C
ATOM	2900	O	LEU	306	24.000	61.026	-3.576	1.00	0.00	O
ATOM	2901	N	ILE	307	24.793	59.010	-4.194	1.00	0.00	N
ATOM	2902	HN	ILE	307	24.836	58.301	-4.926	1.00	0.00	H
ATOM	2903	CA	ILE	307	25.553	58.815	-2.993	1.00	0.00	C
ATOM	2904	CB	ILE	307	26.430	57.598	-3.061	1.00	0.00	C
ATOM	2905	CG1	ILE	307	25.580	56.327	-3.225	1.00	0.00	C
ATOM	2906	CG2	ILE	307	27.322	57.587	-1.808	1.00	0.00	C
ATOM	2907	CD1	ILE	307	24.627	56.081	-2.057	1.00	0.00	C
ATOM	2908	C	ILE	307	26.444	60.007	-2.850	1.00	0.00	C
ATOM	2909	O	ILE	307	26.703	60.475	-1.741	1.00	0.00	O
ATOM	2910	N	GLY	308	26.942	60.526	-3.985	1.00	0.00	N
ATOM	2911	HN	GLY	308	26.674	60.120	-4.882	1.00	0.00	H
ATOM	2912	CA	GLY	308	27.844	61.640	-3.958	1.00	0.00	C
ATOM	2913	C	GLY	308	27.204	62.836	-3.316	1.00	0.00	C
ATOM	2914	O	GLY	308	27.825	63.515	-2.497	1.00	0.00	O
ATOM	2915	N	ALA	309	25.936	63.134	-3.650	1.00	0.00	N
ATOM	2916	HN	ALA	309	25.399	62.523	-4.265	1.00	0.00	H
ATOM	2917	CA	ALA	309	25.359	64.334	-3.118	1.00	0.00	C
ATOM	2918	CB	ALA	309	23.908	64.554	-3.579	1.00	0.00	C
ATOM	2919	C	ALA	309	25.329	64.255	-1.624	1.00	0.00	C
ATOM	2920	O	ALA	309	25.792	65.160	-0.928	1.00	0.00	O
ATOM	2921	N	PHE	310	24.857	63.123	-1.084	1.00	0.00	N
ATOM	2922	HN	PHE	310	24.630	62.322	-1.673	1.00	0.00	H
ATOM	2923	CA	PHE	310	24.677	63.058	0.333	1.00	0.00	C
ATOM	2924	CB	PHE	310	23.959	61.779	0.780	1.00	0.00	C
ATOM	2925	CG	PHE	310	22.600	61.923	0.182	1.00	0.00	C
ATOM	2926	CD1	PHE	310	21.614	62.619	0.844	1.00	0.00	C
ATOM	2927	CD2	PHE	310	22.322	61.397	-1.058	1.00	0.00	C
ATOM	2928	CE1	PHE	310	20.363	62.764	0.291	1.00	0.00	C
ATOM	2929	CE2	PHE	310	21.073	61.540	-1.614	1.00	0.00	C
ATOM	2930	CZ	PHE	310	20.089	62.221	-0.941	1.00	0.00	C
ATOM	2931	C	PHE	310	25.990	63.215	1.027	1.00	0.00	C
ATOM	2932	O	PHE	310	26.084	63.894	2.050	1.00	0.00	O
ATOM	2933	N	SER	311	27.052	62.610	0.477	1.00	0.00	N
ATOM	2934	HN	SER	311	26.947	62.089	-0.394	1.00	0.00	H
ATOM	2935	CA	SER	311	28.334	62.694	1.111	1.00	0.00	C
ATOM	2936	CB	SER	311	29.371	61.812	0.391	1.00	0.00	C
ATOM	2937	OG	SER	311	29.258	61.971	-1.015	1.00	0.00	O
ATOM	2938	HG	SER	311	29.898	61.427	-1.459	1.00	0.00	H
ATOM	2939	C	SER	311	28.788	64.126	1.189	1.00	0.00	C
ATOM	2940	O	SER	311	29.474	64.517	2.134	1.00	0.00	O
ATOM	2941	N	VAL	312	28.392	64.967	0.217	1.00	0.00	N
ATOM	2942	HN	VAL	312	27.806	64.626	-0.545	1.00	0.00	H
ATOM	2943	CA	VAL	312	28.795	66.348	0.252	1.00	0.00	C
ATOM	2944	CB	VAL	312	28.268	67.136	-0.907	1.00	0.00	C
ATOM	2945	CG1	VAL	312	28.621	68.620	-0.700	1.00	0.00	C
ATOM	2946	CG2	VAL	312	28.836	66.528	-2.199	1.00	0.00	C
ATOM	2947	C	VAL	312	28.228	66.961	1.485	1.00	0.00	C
ATOM	2948	O	VAL	312	28.839	67.832	2.107	1.00	0.00	O
ATOM	2949	N	GLY	313	27.011	66.540	1.856	1.00	0.00	N
ATOM	2950	HN	GLY	313	26.522	65.811	1.336	1.00	0.00	H
ATOM	2951	CA	GLY	313	26.425	67.149	3.005	1.00	0.00	C
ATOM	2952	C	GLY	313	27.253	66.862	4.218	1.00	0.00	C
ATOM	2953	O	GLY	313	27.621	67.773	4.952	1.00	0.00	O
ATOM	2954	N	GLN	314	27.636	65.594	4.431	1.00	0.00	N
ATOM	2955	HN	GLN	314	27.447	64.880	3.727	1.00	0.00	H
ATOM	2956	CA	GLN	314	28.313	65.239	5.650	1.00	0.00	C
ATOM	2957	CB	GLN	314	28.664	63.744	5.714	1.00	0.00	C

ATOM	2958	CG	GLN	314	27.450	62.828	5.527	1.00	0.00	C
ATOM	2959	CD	GLN	314	26.343	63.301	6.458	1.00	0.00	C
ATOM	2960	OE1	GLN	314	25.526	64.139	6.082	1.00	0.00	O
ATOM	2961	NE2	GLN	314	26.306	62.760	7.706	1.00	0.00	N
ATOM	2962	1HE2	GLN	314	25.564	63.077	8.330	1.00	0.00	H
ATOM	2963	2HE2	GLN	314	26.984	62.065	8.018	1.00	0.00	H
ATOM	2964	C	GLN	314	29.588	66.010	5.731	1.00	0.00	C
ATOM	2965	O	GLN	314	29.994	66.465	6.802	1.00	0.00	O
ATOM	2966	N	ALA	315	30.246	66.199	4.580	1.00	0.00	N
ATOM	2967	HN	ALA	315	29.843	65.869	3.703	1.00	0.00	H
ATOM	2968	CA	ALA	315	31.512	66.862	4.577	1.00	0.00	C
ATOM	2969	CB	ALA	315	32.090	67.027	3.164	1.00	0.00	C
ATOM	2970	C	ALA	315	31.350	68.241	5.143	1.00	0.00	C
ATOM	2971	O	ALA	315	32.203	68.708	5.897	1.00	0.00	O
ATOM	2972	N	SER	316	30.240	68.927	4.807	1.00	0.00	N
ATOM	2973	HN	SER	316	29.500	68.474	4.271	1.00	0.00	H
ATOM	2974	CA	SER	316	30.103	70.301	5.208	1.00	0.00	C
ATOM	2975	CB	SER	316	28.822	70.979	4.684	1.00	0.00	C
ATOM	2976	OG	SER	316	28.866	71.088	3.269	1.00	0.00	O
ATOM	2977	HG	SER	316	28.076	71.506	2.946	1.00	0.00	H
ATOM	2978	C	SER	316	30.156	70.456	6.700	1.00	0.00	C
ATOM	2979	O	SER	316	30.947	71.269	7.177	1.00	0.00	O
ATOM	2980	N	PRO	317	29.391	69.745	7.488	1.00	0.00	N
ATOM	2981	CA	PRO	317	29.529	69.983	8.895	1.00	0.00	C
ATOM	2982	CD	PRO	317	28.004	69.460	7.160	1.00	0.00	C
ATOM	2983	CB	PRO	317	28.337	69.303	9.560	1.00	0.00	C
ATOM	2984	CG	PRO	317	27.238	69.434	8.494	1.00	0.00	C
ATOM	2985	C	PRO	317	30.862	69.629	9.468	1.00	0.00	C
ATOM	2986	O	PRO	317	31.265	70.255	10.446	1.00	0.00	O
ATOM	2987	N	SER	318	31.570	68.640	8.902	1.00	0.00	N
ATOM	2988	HN	SER	318	31.220	68.145	8.082	1.00	0.00	H
ATOM	2989	CA	SER	318	32.833	68.301	9.486	1.00	0.00	C
ATOM	2990	CB	SER	318	33.487	67.077	8.832	1.00	0.00	C
ATOM	2991	OG	SER	318	34.727	66.802	9.466	1.00	0.00	O
ATOM	2992	HG	SER	318	35.132	66.044	9.061	1.00	0.00	H
ATOM	2993	C	SER	318	33.746	69.473	9.314	1.00	0.00	C
ATOM	2994	O	SER	318	34.509	69.822	10.214	1.00	0.00	O
ATOM	2995	N	ILE	319	33.661	70.140	8.148	1.00	0.00	N
ATOM	2996	HN	ILE	319	32.973	69.848	7.454	1.00	0.00	H
ATOM	2997	CA	ILE	319	34.520	71.255	7.863	1.00	0.00	C
ATOM	2998	CB	ILE	319	34.278	71.859	6.511	1.00	0.00	C
ATOM	2999	CG1	ILE	319	34.587	70.845	5.403	1.00	0.00	C
ATOM	3000	CG2	ILE	319	35.102	73.153	6.403	1.00	0.00	C
ATOM	3001	CD1	ILE	319	34.074	71.288	4.036	1.00	0.00	C
ATOM	3002	C	ILE	319	34.247	72.334	8.854	1.00	0.00	C
ATOM	3003	O	ILE	319	35.169	72.967	9.370	1.00	0.00	O
ATOM	3004	N	GLU	320	32.957	72.556	9.155	1.00	0.00	N
ATOM	3005	HN	GLU	320	32.235	71.965	8.742	1.00	0.00	H
ATOM	3006	CA	GLU	320	32.583	73.609	10.046	1.00	0.00	C
ATOM	3007	CB	GLU	320	31.077	73.588	10.343	1.00	0.00	C
ATOM	3008	CG	GLU	320	30.598	74.686	11.289	1.00	0.00	C
ATOM	3009	CD	GLU	320	29.137	74.388	11.592	1.00	0.00	C
ATOM	3010	OE1	GLU	320	28.865	73.256	12.073	1.00	0.00	O
ATOM	3011	OE2	GLU	320	28.275	75.275	11.349	1.00	0.00	O
ATOM	3012	C	GLU	320	33.301	73.367	11.332	1.00	0.00	C
ATOM	3013	O	GLU	320	33.854	74.284	11.935	1.00	0.00	O
ATOM	3014	N	ALA	321	33.367	72.097	11.760	1.00	0.00	N
ATOM	3015	HN	ALA	321	32.977	71.345	11.193	1.00	0.00	H
ATOM	3016	CA	ALA	321	33.987	71.802	13.015	1.00	0.00	C
ATOM	3017	CB	ALA	321	33.976	70.300	13.337	1.00	0.00	C
ATOM	3018	C	ALA	321	35.414	72.252	12.993	1.00	0.00	C
ATOM	3019	O	ALA	321	35.878	72.874	13.949	1.00	0.00	O
ATOM	3020	N	PHE	322	36.146	71.990	11.892	1.00	0.00	N
ATOM	3021	HN	PHE	322	35.724	71.558	11.070	1.00	0.00	H
ATOM	3022	CA	PHE	322	37.536	72.338	11.912	1.00	0.00	C
ATOM	3023	CB	PHE	322	38.317	71.962	10.644	1.00	0.00	C
ATOM	3024	CG	PHE	322	39.741	72.265	10.971	1.00	0.00	C
ATOM	3025	CD1	PHE	322	40.268	73.519	10.752	1.00	0.00	C
ATOM	3026	CD2	PHE	322	40.546	71.292	11.517	1.00	0.00	C
ATOM	3027	CE1	PHE	322	41.577	73.798	11.064	1.00	0.00	C
ATOM	3028	CE2	PHE	322	41.857	71.564	11.831	1.00	0.00	C
ATOM	3029	CZ	PHE	322	42.373	72.817	11.605	1.00	0.00	C
ATOM	3030	C	PHE	322	37.676	73.815	12.106	1.00	0.00	C
ATOM	3031	O	PHE	322	38.402	74.261	12.990	1.00	0.00	O

ATOM	3032	N	ALA	323	36.939	74.620	11.327	1.00	0.00	N
ATOM	3033	HN	ALA	323	36.251	74.217	10.691	1.00	0.00	H
ATOM	3034	CA	ALA	323	37.110	76.044	11.381	1.00	0.00	C
ATOM	3035	CB	ALA	323	36.164	76.787	10.421	1.00	0.00	C
ATOM	3036	C	ALA	323	36.823	76.531	12.769	1.00	0.00	C
ATOM	3037	O	ALA	323	37.521	77.412	13.270	1.00	0.00	O
ATOM	3038	N	ASN	324	35.795	75.970	13.435	1.00	0.00	N
ATOM	3039	HN	ASN	324	35.269	75.209	13.006	1.00	0.00	H
ATOM	3040	CA	ASN	324	35.433	76.436	14.747	1.00	0.00	C
ATOM	3041	CB	ASN	324	34.329	75.596	15.420	1.00	0.00	C
ATOM	3042	CG	ASN	324	33.002	75.740	14.693	1.00	0.00	C
ATOM	3043	OD1	ASN	324	32.466	74.767	14.165	1.00	0.00	O
ATOM	3044	ND2	ASN	324	32.442	76.978	14.682	1.00	0.00	N
ATOM	3045	1HD2	ASN	324	31.551	77.075	14.194	1.00	0.00	H
ATOM	3046	2HD2	ASN	324	32.887	77.785	15.120	1.00	0.00	H
ATOM	3047	C	ASN	324	36.600	76.249	15.657	1.00	0.00	C
ATOM	3048	O	ASN	324	37.019	77.176	16.348	1.00	0.00	O
ATOM	3049	N	ALA	325	37.174	75.034	15.646	1.00	0.00	N
ATOM	3050	HN	ALA	325	36.854	74.336	14.974	1.00	0.00	H
ATOM	3051	CA	ALA	325	38.224	74.700	16.557	1.00	0.00	C
ATOM	3052	CB	ALA	325	38.721	73.255	16.382	1.00	0.00	C
ATOM	3053	C	ALA	325	39.371	75.610	16.310	1.00	0.00	C
ATOM	3054	O	ALA	325	40.026	76.056	17.250	1.00	0.00	O
ATOM	3055	N	ARG	326	39.653	75.901	15.030	1.00	0.00	N
ATOM	3056	HN	ARG	326	39.078	75.528	14.275	1.00	0.00	H
ATOM	3057	CA	ARG	326	40.772	76.741	14.744	1.00	0.00	C
ATOM	3058	CB	ARG	326	40.992	76.939	13.237	1.00	0.00	C
ATOM	3059	CG	ARG	326	42.328	77.601	12.900	1.00	0.00	C
ATOM	3060	CD	ARG	326	42.590	77.701	11.397	1.00	0.00	C
ATOM	3061	NE	ARG	326	42.512	79.142	11.032	1.00	0.00	N
ATOM	3062	HE	ARG	326	43.360	79.708	11.036	1.00	0.00	H
ATOM	3063	CZ	ARG	326	41.323	79.716	10.693	1.00	0.00	C
ATOM	3064	NH1	ARG	326	40.183	78.967	10.640	1.00	0.00	N
ATOM	3065	1HH1	ARG	326	39.293	79.397	10.386	1.00	0.00	H
ATOM	3066	2HH1	ARG	326	40.217	77.971	10.857	1.00	0.00	H
ATOM	3067	NH2	ARG	326	41.277	81.049	10.402	1.00	0.00	N
ATOM	3068	1HH2	ARG	326	40.387	81.479	10.148	1.00	0.00	H
ATOM	3069	2HH2	ARG	326	42.129	81.609	10.442	1.00	0.00	H
ATOM	3070	C	ARG	326	40.548	78.088	15.346	1.00	0.00	C
ATOM	3071	O	ARG	326	41.357	78.547	16.149	1.00	0.00	O
ATOM	3072	N	GLY	327	39.387	78.711	15.056	1.00	0.00	N
ATOM	3073	HN	GLY	327	38.669	78.219	14.524	1.00	0.00	H
ATOM	3074	CA	GLY	327	39.151	80.058	15.488	1.00	0.00	C
ATOM	3075	C	GLY	327	39.270	80.097	16.971	1.00	0.00	C
ATOM	3076	O	GLY	327	39.870	81.014	17.534	1.00	0.00	O
ATOM	3077	N	ALA	328	38.704	79.085	17.648	1.00	0.00	N
ATOM	3078	HN	ALA	328	38.241	78.317	17.162	1.00	0.00	H
ATOM	3079	CA	ALA	328	38.775	79.124	19.070	1.00	0.00	C
ATOM	3080	CB	ALA	328	38.022	77.954	19.724	1.00	0.00	C
ATOM	3081	C	ALA	328	40.199	79.049	19.528	1.00	0.00	C
ATOM	3082	O	ALA	328	40.702	80.011	20.104	1.00	0.00	O
ATOM	3083	N	ALA	329	40.926	77.960	19.193	1.00	0.00	N
ATOM	3084	HN	ALA	329	40.545	77.247	18.571	1.00	0.00	H
ATOM	3085	CA	ALA	329	42.249	77.834	19.737	1.00	0.00	C
ATOM	3086	CB	ALA	329	43.010	76.560	19.338	1.00	0.00	C
ATOM	3087	C	ALA	329	43.082	78.929	19.239	1.00	0.00	C
ATOM	3088	O	ALA	329	43.490	79.723	20.048	1.00	0.00	O
ATOM	3089	N	TYR	330	43.218	79.139	17.927	1.00	0.00	N
ATOM	3090	HN	TYR	330	42.620	78.635	17.272	1.00	0.00	H
ATOM	3091	CA	TYR	330	44.195	80.066	17.425	1.00	0.00	C
ATOM	3092	CB	TYR	330	44.108	80.132	15.890	1.00	0.00	C
ATOM	3093	CG	TYR	330	44.554	81.470	15.427	1.00	0.00	C
ATOM	3094	CD1	TYR	330	45.880	81.768	15.227	1.00	0.00	C
ATOM	3095	CD2	TYR	330	43.602	82.435	15.195	1.00	0.00	C
ATOM	3096	CE1	TYR	330	46.247	83.023	14.800	1.00	0.00	C
ATOM	3097	CE2	TYR	330	43.964	83.690	14.768	1.00	0.00	C
ATOM	3098	CZ	TYR	330	45.292	83.985	14.573	1.00	0.00	C
ATOM	3099	OH	TYR	330	45.675	85.270	14.135	1.00	0.00	O
ATOM	3100	HH	TYR	330	45.015	85.935	13.978	1.00	0.00	H
ATOM	3101	C	TYR	330	44.069	81.451	18.001	1.00	0.00	C
ATOM	3102	O	TYR	330	45.067	82.016	18.451	1.00	0.00	O
ATOM	3103	N	GLU	331	42.862	82.045	18.021	1.00	0.00	N
ATOM	3104	HN	GLU	331	42.041	81.540	17.687	1.00	0.00	H
ATOM	3105	CA	GLU	331	42.726	83.393	18.513	1.00	0.00	C

ATOM	3106	CB	GLU	331	41.268	83.872	18.432	1.00	0.00	C
ATOM	3107	CG	GLU	331	40.684	83.916	17.021	1.00	0.00	C
ATOM	3108	CD	GLU	331	39.169	83.880	17.176	1.00	0.00	C
ATOM	3109	OE1	GLU	331	38.705	83.543	18.299	1.00	0.00	O
ATOM	3110	OE2	GLU	331	38.456	84.177	16.180	1.00	0.00	O
ATOM	3111	C	GLU	331	43.066	83.444	19.976	1.00	0.00	C
ATOM	3112	O	GLU	331	43.944	84.187	20.409	1.00	0.00	O
ATOM	3113	N	ILE	332	42.378	82.594	20.758	1.00	0.00	N
ATOM	3114	HN	ILE	332	41.745	81.952	20.280	1.00	0.00	H
ATOM	3115	CA	ILE	332	42.431	82.485	22.190	1.00	0.00	C
ATOM	3116	CB	ILE	332	41.450	81.548	22.834	1.00	0.00	C
ATOM	3117	CG1	ILE	332	41.854	80.088	22.570	1.00	0.00	C
ATOM	3118	CG2	ILE	332	40.035	81.917	22.348	1.00	0.00	C
ATOM	3119	CD1	ILE	332	41.111	79.075	23.439	1.00	0.00	C
ATOM	3120	C	ILE	332	43.751	81.926	22.587	1.00	0.00	C
ATOM	3121	O	ILE	332	43.936	81.614	23.756	1.00	0.00	O
ATOM	3122	N	PHE	333	44.482	81.441	21.572	1.00	0.00	N
ATOM	3123	HN	PHE	333	44.039	81.509	20.656	1.00	0.00	H
ATOM	3124	CA	PHE	333	45.790	80.840	21.565	1.00	0.00	C
ATOM	3125	CB	PHE	333	46.162	80.134	20.246	1.00	0.00	C
ATOM	3126	CG	PHE	333	47.520	79.526	20.331	1.00	0.00	C
ATOM	3127	CD1	PHE	333	48.645	80.281	20.096	1.00	0.00	C
ATOM	3128	CD2	PHE	333	47.664	78.189	20.627	1.00	0.00	C
ATOM	3129	CE1	PHE	333	49.898	79.716	20.165	1.00	0.00	C
ATOM	3130	CE2	PHE	333	48.912	77.618	20.698	1.00	0.00	C
ATOM	3131	CZ	PHE	333	50.030	78.382	20.467	1.00	0.00	C
ATOM	3132	C	PHE	333	46.777	81.926	21.695	1.00	0.00	C
ATOM	3133	O	PHE	333	47.794	81.810	22.368	1.00	0.00	O
ATOM	3134	N	LYS	334	46.510	83.026	20.990	1.00	0.00	N
ATOM	3135	HN	LYS	334	45.708	83.045	20.360	1.00	0.00	H
ATOM	3136	CA	LYS	334	47.343	84.174	21.115	1.00	0.00	C
ATOM	3137	CB	LYS	334	46.843	85.307	20.206	1.00	0.00	C
ATOM	3138	CG	LYS	334	47.035	84.972	18.724	1.00	0.00	C
ATOM	3139	CD	LYS	334	46.107	85.724	17.767	1.00	0.00	C
ATOM	3140	CE	LYS	334	45.479	86.987	18.355	1.00	0.00	C
ATOM	3141	NZ	LYS	334	44.374	86.621	19.268	1.00	0.00	N
ATOM	3142	HZ1	LYS	334	43.955	87.464	19.660	1.00	0.00	H
ATOM	3143	HZ2	LYS	334	44.676	85.970	19.993	1.00	0.00	H
ATOM	3144	HZ3	LYS	334	43.682	86.025	18.813	1.00	0.00	H
ATOM	3145	C	LYS	334	47.134	84.536	22.532	1.00	0.00	C
ATOM	3146	O	LYS	334	48.001	85.085	23.209	1.00	0.00	O
ATOM	3147	N	ILE	335	45.902	84.263	22.982	1.00	0.00	N
ATOM	3148	HN	ILE	335	45.193	83.955	22.317	1.00	0.00	H
ATOM	3149	CA	ILE	335	45.548	84.386	24.350	1.00	0.00	C
ATOM	3150	CB	ILE	335	44.078	84.214	24.593	1.00	0.00	C
ATOM	3151	CG1	ILE	335	43.267	85.280	23.835	1.00	0.00	C
ATOM	3152	CG2	ILE	335	43.858	84.218	26.115	1.00	0.00	C
ATOM	3153	CD1	ILE	335	43.560	86.710	24.279	1.00	0.00	C
ATOM	3154	C	ILE	335	46.264	83.313	25.116	1.00	0.00	C
ATOM	3155	O	ILE	335	46.655	83.524	26.263	1.00	0.00	O
ATOM	3156	N	ILE	336	46.369	82.093	24.540	1.00	0.00	N
ATOM	3157	HN	ILE	336	46.032	81.924	23.592	1.00	0.00	H
ATOM	3158	CA	ILE	336	46.972	81.048	25.313	1.00	0.00	C
ATOM	3159	CB	ILE	336	46.599	79.646	24.870	1.00	0.00	C
ATOM	3160	CG1	ILE	336	47.014	78.613	25.913	1.00	0.00	C
ATOM	3161	CG2	ILE	336	47.269	79.289	23.547	1.00	0.00	C
ATOM	3162	CD1	ILE	336	48.503	78.289	25.890	1.00	0.00	C
ATOM	3163	C	ILE	336	48.468	81.197	25.469	1.00	0.00	C
ATOM	3164	O	ILE	336	48.930	81.558	26.549	1.00	0.00	O
ATOM	3165	N	ASP	337	49.256	81.087	24.374	1.00	0.00	N
ATOM	3166	HN	ASP	337	48.834	81.036	23.447	1.00	0.00	H
ATOM	3167	CA	ASP	337	50.679	81.042	24.514	1.00	0.00	C
ATOM	3168	CB	ASP	337	51.470	80.906	23.198	1.00	0.00	C
ATOM	3169	CG	ASP	337	51.543	79.437	22.804	1.00	0.00	C
ATOM	3170	OD1	ASP	337	50.670	78.648	23.251	1.00	0.00	O
ATOM	3171	OD2	ASP	337	52.497	79.082	22.061	1.00	0.00	O
ATOM	3172	C	ASP	337	51.204	82.293	25.200	1.00	0.00	C
ATOM	3173	O	ASP	337	51.813	82.208	26.266	1.00	0.00	O
ATOM	3174	N	ASN	338	50.881	83.494	24.676	1.00	0.00	N
ATOM	3175	HN	ASN	338	50.194	83.507	23.922	1.00	0.00	H
ATOM	3176	CA	ASN	338	51.433	84.772	25.100	1.00	0.00	C
ATOM	3177	CB	ASN	338	50.550	85.951	24.698	1.00	0.00	C
ATOM	3178	CG	ASN	338	49.281	85.793	25.518	1.00	0.00	C
ATOM	3179	OD1	ASN	338	48.854	84.679	25.815	1.00	0.00	O

ATOM	3180	ND2	ASN	338	48.663	86.936	25.906	1.00	0.00	N
ATOM	3181	1HD2	ASN	338	47.811	86.830	26.457	1.00	0.00	H
ATOM	3182	2HD2	ASN	338	49.017	87.860	25.660	1.00	0.00	H
ATOM	3183	C	ASN	338	51.647	84.937	26.623	1.00	0.00	C
ATOM	3184	O	ASN	338	50.805	84.562	27.435	1.00	0.00	O
ATOM	3185	N	LYS	339	52.837	85.502	27.005	1.00	0.00	N
ATOM	3186	HN	LYS	339	53.406	85.757	26.198	1.00	0.00	H
ATOM	3187	CA	LYS	339	53.514	85.839	28.271	1.00	0.00	C
ATOM	3188	CB	LYS	339	55.042	85.682	28.216	1.00	0.00	C
ATOM	3189	CG	LYS	339	55.545	84.394	28.873	1.00	0.00	C
ATOM	3190	CD	LYS	339	55.053	83.090	28.252	1.00	0.00	C
ATOM	3191	CE	LYS	339	55.611	81.850	28.961	1.00	0.00	C
ATOM	3192	NZ	LYS	339	55.022	81.704	30.314	1.00	0.00	N
ATOM	3193	HZ1	LYS	339	55.393	80.879	30.786	1.00	0.00	H
ATOM	3194	HZ2	LYS	339	54.003	81.693	30.282	1.00	0.00	H
ATOM	3195	HZ3	LYS	339	55.150	82.547	30.873	1.00	0.00	H
ATOM	3196	C	LYS	339	53.253	87.134	29.024	1.00	0.00	C
ATOM	3197	O	LYS	339	54.044	87.350	29.944	1.00	0.00	O
ATOM	3198	N	PRO	340	52.357	88.054	28.753	1.00	0.00	N
ATOM	3199	CA	PRO	340	52.415	89.383	29.381	1.00	0.00	C
ATOM	3200	CD	PRO	340	51.001	87.682	28.388	1.00	0.00	C
ATOM	3201	CB	PRO	340	51.017	89.977	29.179	1.00	0.00	C
ATOM	3202	CG	PRO	340	50.102	88.744	29.040	1.00	0.00	C
ATOM	3203	C	PRO	340	52.932	89.658	30.816	1.00	0.00	C
ATOM	3204	O	PRO	340	54.096	90.035	30.945	1.00	0.00	O
ATOM	3205	N	SER	341	52.130	89.536	31.897	1.00	0.00	N
ATOM	3206	HN	SER	341	51.131	89.423	31.723	1.00	0.00	H
ATOM	3207	CA	SER	341	52.566	89.552	33.296	1.00	0.00	C
ATOM	3208	CB	SER	341	53.399	88.309	33.630	1.00	0.00	C
ATOM	3209	OG	SER	341	54.628	88.364	32.922	1.00	0.00	O
ATOM	3210	HG	SER	341	55.144	87.594	33.129	1.00	0.00	H
ATOM	3211	C	SER	341	53.349	90.723	33.923	1.00	0.00	C
ATOM	3212	O	SER	341	53.922	90.520	34.976	1.00	0.00	O
ATOM	3213	N	ILE	342	53.450	91.964	33.441	1.00	0.00	N
ATOM	3214	HN	ILE	342	52.959	92.203	32.580	1.00	0.00	H
ATOM	3215	CA	ILE	342	54.250	92.997	34.117	1.00	0.00	C
ATOM	3216	CB	ILE	342	54.548	94.141	33.197	1.00	0.00	C
ATOM	3217	CG1	ILE	342	55.294	93.628	31.954	1.00	0.00	C
ATOM	3218	CG2	ILE	342	55.346	95.193	33.984	1.00	0.00	C
ATOM	3219	CD1	ILE	342	56.644	92.991	32.280	1.00	0.00	C
ATOM	3220	C	ILE	342	53.612	93.560	35.360	1.00	0.00	C
ATOM	3221	O	ILE	342	54.270	94.087	36.261	1.00	0.00	O
ATOM	3222	N	ASP	343	52.279	93.527	35.388	1.00	0.00	N
ATOM	3223	HN	ASP	343	51.804	92.977	34.672	1.00	0.00	H
ATOM	3224	CA	ASP	343	51.464	94.209	36.353	1.00	0.00	C
ATOM	3225	CB	ASP	343	49.958	94.014	36.132	1.00	0.00	C
ATOM	3226	CG	ASP	343	49.627	92.584	36.536	1.00	0.00	C
ATOM	3227	OD1	ASP	343	50.123	91.637	35.871	1.00	0.00	O
ATOM	3228	OD2	ASP	343	48.873	92.422	37.533	1.00	0.00	O
ATOM	3229	C	ASP	343	51.689	93.703	37.733	1.00	0.00	C
ATOM	3230	O	ASP	343	51.080	94.218	38.667	1.00	0.00	O
ATOM	3231	N	SER	344	52.449	92.614	37.905	1.00	0.00	N
ATOM	3232	HN	SER	344	52.950	92.186	37.127	1.00	0.00	H
ATOM	3233	CA	SER	344	52.526	92.079	39.227	1.00	0.00	C
ATOM	3234	CB	SER	344	51.335	91.152	39.504	1.00	0.00	C
ATOM	3235	OG	SER	344	51.416	90.629	40.817	1.00	0.00	O
ATOM	3236	HG	SER	344	50.679	90.055	40.988	1.00	0.00	H
ATOM	3237	C	SER	344	53.766	91.272	39.347	1.00	0.00	C
ATOM	3238	O	SER	344	54.647	91.643	40.124	1.00	0.00	O
ATOM	3239	N	TYR	345	53.818	90.115	38.637	1.00	0.00	N
ATOM	3240	HN	TYR	345	53.007	89.797	38.106	1.00	0.00	H
ATOM	3241	CA	TYR	345	55.024	89.349	38.644	1.00	0.00	C
ATOM	3242	CB	TYR	345	56.258	90.254	38.416	1.00	0.00	C
ATOM	3243	CG	TYR	345	57.506	89.507	38.101	1.00	0.00	C
ATOM	3244	CD1	TYR	345	57.472	88.259	37.526	1.00	0.00	C
ATOM	3245	CD2	TYR	345	58.722	90.073	38.407	1.00	0.00	C
ATOM	3246	CE1	TYR	345	58.646	87.603	37.237	1.00	0.00	C
ATOM	3247	CE2	TYR	345	59.895	89.424	38.115	1.00	0.00	C
ATOM	3248	CZ	TYR	345	59.857	88.186	37.525	1.00	0.00	C
ATOM	3249	OH	TYR	345	61.060	87.515	37.222	1.00	0.00	O
ATOM	3250	HH	TYR	345	61.897	87.918	37.421	1.00	0.00	H
ATOM	3251	C	TYR	345	55.049	88.624	39.947	1.00	0.00	C
ATOM	3252	O	TYR	345	54.171	88.828	40.783	1.00	0.00	O
ATOM	3253	N	SER	346	55.910	87.601	40.071	1.00	0.00	N

ATOM	3254	HN	SER	346	56.443	87.270	39.267	1.00	0.00	H
ATOM	3255	CA	SER	346	56.065	86.987	41.344	1.00	0.00	C
ATOM	3256	CB	SER	346	55.369	85.622	41.445	1.00	0.00	C
ATOM	3257	OG	SER	346	53.978	85.762	41.197	1.00	0.00	O
ATOM	3258	HG	SER	346	53.547	84.918	41.259	1.00	0.00	H
ATOM	3259	C	SER	346	57.525	86.727	41.451	1.00	0.00	C
ATOM	3260	O	SER	346	57.949	85.595	41.223	1.00	0.00	O
ATOM	3261	N	LYS	347	58.309	87.768	41.816	1.00	0.00	N
ATOM	3262	HN	LYS	347	57.865	88.661	42.032	1.00	0.00	H
ATOM	3263	CA	LYS	347	59.741	87.670	41.913	1.00	0.00	C
ATOM	3264	CB	LYS	347	60.517	88.123	40.671	1.00	0.00	C
ATOM	3265	CG	LYS	347	61.977	87.658	40.682	1.00	0.00	C
ATOM	3266	CD	LYS	347	62.779	88.094	39.464	1.00	0.00	C
ATOM	3267	CE	LYS	347	62.852	89.615	39.358	1.00	0.00	C
ATOM	3268	NZ	LYS	347	63.330	90.178	40.640	1.00	0.00	N
ATOM	3269	HZ1	LYS	347	63.379	91.194	40.569	1.00	0.00	H
ATOM	3270	HZ2	LYS	347	64.217	89.769	40.933	1.00	0.00	H
ATOM	3271	HZ3	LYS	347	62.761	89.874	41.430	1.00	0.00	H
ATOM	3272	C	LYS	347	60.200	88.569	43.069	1.00	0.00	C
ATOM	3273	O	LYS	347	59.386	88.982	43.888	1.00	0.00	O
ATOM	3274	N	SER	348	61.513	88.944	43.143	1.00	0.00	N
ATOM	3275	HN	SER	348	62.095	88.706	42.340	1.00	0.00	H
ATOM	3276	CA	SER	348	62.180	89.646	44.238	1.00	0.00	C
ATOM	3277	CB	SER	348	63.681	89.839	43.972	1.00	0.00	C
ATOM	3278	OG	SER	348	64.334	90.303	45.143	1.00	0.00	O
ATOM	3279	HG	SER	348	65.262	90.422	44.979	1.00	0.00	H
ATOM	3280	C	SER	348	61.569	91.007	44.560	1.00	0.00	C
ATOM	3281	O	SER	348	60.497	91.348	44.076	1.00	0.00	O
ATOM	3282	N	GLY	349	62.178	91.829	45.460	1.00	0.00	N
ATOM	3283	HN	GLY	349	63.052	91.568	45.916	1.00	0.00	H
ATOM	3284	CA	GLY	349	61.521	93.096	45.738	1.00	0.00	C
ATOM	3285	C	GLY	349	61.984	93.775	47.021	1.00	0.00	C
ATOM	3286	O	GLY	349	63.165	93.744	47.371	1.00	0.00	O
ATOM	3287	N	HIS	350	61.019	94.438	47.727	1.00	0.00	N
ATOM	3288	HN	HIS	350	60.063	94.317	47.394	1.00	0.00	H
ATOM	3289	CA	HIS	350	61.181	95.298	48.897	1.00	0.00	C
ATOM	3290	ND1	HIS	350	61.680	98.730	49.405	1.00	0.00	N
ATOM	3291	HD1	HIS	350	62.332	98.789	48.623	1.00	0.00	H
ATOM	3292	CG	HIS	350	60.728	97.758	49.607	1.00	0.00	C
ATOM	3293	CB	HIS	350	60.469	96.641	48.641	1.00	0.00	C
ATOM	3294	NE2	HIS	350	60.640	99.244	51.300	1.00	0.00	N
ATOM	3295	HE2	HIS	350	60.367	99.722	52.159	1.00	0.00	H
ATOM	3296	CD2	HIS	350	60.103	98.083	50.770	1.00	0.00	C
ATOM	3297	CE1	HIS	350	61.584	99.595	50.447	1.00	0.00	C
ATOM	3298	C	HIS	350	60.529	94.667	50.118	1.00	0.00	C
ATOM	3299	O	HIS	350	59.539	93.954	49.984	1.00	0.00	O
ATOM	3300	N	LYS	351	61.052	94.908	51.356	1.00	0.00	N
ATOM	3301	HN	LYS	351	61.854	95.531	51.456	1.00	0.00	H
ATOM	3302	CA	LYS	351	60.470	94.279	52.537	1.00	0.00	C
ATOM	3303	CB	LYS	351	61.302	93.099	53.066	1.00	0.00	C
ATOM	3304	CG	LYS	351	60.910	91.731	52.507	1.00	0.00	C
ATOM	3305	CD	LYS	351	61.191	91.494	51.027	1.00	0.00	C
ATOM	3306	CE	LYS	351	60.729	90.107	50.577	1.00	0.00	C
ATOM	3307	NZ	LYS	351	61.041	89.899	49.146	1.00	0.00	N
ATOM	3308	HZ1	LYS	351	60.733	88.974	48.846	1.00	0.00	H
ATOM	3309	HZ2	LYS	351	62.029	90.054	48.946	1.00	0.00	H
ATOM	3310	HZ3	LYS	351	60.651	90.638	48.561	1.00	0.00	H
ATOM	3311	C	LYS	351	60.251	95.186	53.740	1.00	0.00	C
ATOM	3312	O	LYS	351	61.196	95.546	54.447	1.00	0.00	O
ATOM	3313	N	PRO	352	59.021	95.570	54.015	1.00	0.00	N
ATOM	3314	CA	PRO	352	58.679	96.314	55.223	1.00	0.00	C
ATOM	3315	CD	PRO	352	58.028	95.736	52.973	1.00	0.00	C
ATOM	3316	CB	PRO	352	57.381	97.059	54.901	1.00	0.00	C
ATOM	3317	CG	PRO	352	56.794	96.292	53.702	1.00	0.00	C
ATOM	3318	C	PRO	352	58.560	95.392	56.399	1.00	0.00	C
ATOM	3319	O	PRO	352	57.449	94.967	56.723	1.00	0.00	O
ATOM	3320	N	ASP	353	59.666	95.160	57.116	1.00	0.00	N
ATOM	3321	HN	ASP	353	60.519	95.676	56.899	1.00	0.00	H
ATOM	3322	CA	ASP	353	59.677	94.204	58.180	1.00	0.00	C
ATOM	3323	CB	ASP	353	61.092	93.715	58.522	1.00	0.00	C
ATOM	3324	CG	ASP	353	61.529	92.892	57.308	1.00	0.00	C
ATOM	3325	OD1	ASP	353	60.821	92.964	56.267	1.00	0.00	O
ATOM	3326	OD2	ASP	353	62.564	92.179	57.401	1.00	0.00	O
ATOM	3327	C	ASP	353	58.956	94.702	59.382	1.00	0.00	C

ATOM	3328	O	ASP	353	58.488	93.886	60.178	1.00	0.00	O
ATOM	3329	N	ASN	354	58.888	96.041	59.561	1.00	0.00	N
ATOM	3330	HN	ASN	354	59.374	96.664	58.917	1.00	0.00	H
ATOM	3331	CA	ASN	354	58.135	96.589	60.653	1.00	0.00	C
ATOM	3332	CB	ASN	354	58.010	98.120	60.577	1.00	0.00	C
ATOM	3333	CG	ASN	354	57.338	98.470	59.254	1.00	0.00	C
ATOM	3334	OD1	ASN	354	56.113	98.477	59.153	1.00	0.00	O
ATOM	3335	ND2	ASN	354	58.157	98.751	58.205	1.00	0.00	N
ATOM	3336	1HD2	ASN	354	57.707	98.985	57.320	1.00	0.00	H
ATOM	3337	2HD2	ASN	354	59.174	98.745	58.289	1.00	0.00	H
ATOM	3338	C	ASN	354	56.788	95.985	60.440	1.00	0.00	C
ATOM	3339	O	ASN	354	56.267	95.957	59.336	1.00	0.00	O
ATOM	3340	N	ILE	355	56.225	95.310	61.434	1.00	0.00	N
ATOM	3341	HN	ILE	355	56.600	95.259	62.381	1.00	0.00	H
ATOM	3342	CA	ILE	355	55.028	94.666	61.007	1.00	0.00	C
ATOM	3343	CB	ILE	355	54.642	93.605	61.988	1.00	0.00	C
ATOM	3344	CG1	ILE	355	55.846	92.677	62.222	1.00	0.00	C
ATOM	3345	CG2	ILE	355	53.397	92.885	61.452	1.00	0.00	C
ATOM	3346	CD1	ILE	355	56.425	92.087	60.938	1.00	0.00	C
ATOM	3347	C	ILE	355	53.841	95.593	60.837	1.00	0.00	C
ATOM	3348	O	ILE	355	53.564	96.041	59.729	1.00	0.00	O
ATOM	3349	N	LYS	356	53.259	96.075	61.960	1.00	0.00	N
ATOM	3350	HN	LYS	356	53.772	95.964	62.835	1.00	0.00	H
ATOM	3351	CA	LYS	356	51.969	96.736	62.028	1.00	0.00	C
ATOM	3352	CB	LYS	356	51.517	97.009	63.472	1.00	0.00	C
ATOM	3353	CG	LYS	356	51.220	95.741	64.277	1.00	0.00	C
ATOM	3354	CD	LYS	356	50.047	94.923	63.731	1.00	0.00	C
ATOM	3355	CE	LYS	356	48.676	95.493	64.102	1.00	0.00	C
ATOM	3356	NZ	LYS	356	48.344	95.142	65.501	1.00	0.00	N
ATOM	3357	HZ1	LYS	356	47.430	95.522	65.748	1.00	0.00	H
ATOM	3358	HZ2	LYS	356	49.071	95.439	66.152	1.00	0.00	H
ATOM	3359	HZ3	LYS	356	48.398	94.137	65.666	1.00	0.00	H
ATOM	3360	C	LYS	356	51.934	98.044	61.306	1.00	0.00	C
ATOM	3361	O	LYS	356	52.968	98.626	60.978	1.00	0.00	O
ATOM	3362	N	GLY	357	50.694	98.513	61.012	1.00	0.00	N
ATOM	3363	HN	GLY	357	49.873	97.961	61.260	1.00	0.00	H
ATOM	3364	CA	GLY	357	50.530	99.780	60.355	1.00	0.00	C
ATOM	3365	C	GLY	357	49.082	100.020	60.034	1.00	0.00	C
ATOM	3366	O	GLY	357	48.219	99.167	60.230	1.00	0.00	O
ATOM	3367	N	ASN	358	48.790	101.221	59.494	1.00	0.00	N
ATOM	3368	HN	ASN	358	49.552	101.868	59.290	1.00	0.00	H
ATOM	3369	CA	ASN	358	47.444	101.620	59.196	1.00	0.00	C
ATOM	3370	CB	ASN	358	47.128	103.035	59.707	1.00	0.00	C
ATOM	3371	CG	ASN	358	47.429	103.083	61.199	1.00	0.00	C
ATOM	3372	OD1	ASN	358	48.554	102.826	61.625	1.00	0.00	O
ATOM	3373	ND2	ASN	358	46.403	103.434	62.019	1.00	0.00	N
ATOM	3374	1HD2	ASN	358	45.470	103.647	61.666	1.00	0.00	H
ATOM	3375	2HD2	ASN	358	46.605	103.466	63.018	1.00	0.00	H
ATOM	3376	C	ASN	358	47.325	101.685	57.714	1.00	0.00	C
ATOM	3377	O	ASN	358	48.268	102.064	57.024	1.00	0.00	O
ATOM	3378	N	LEU	359	46.160	101.284	57.179	1.00	0.00	N
ATOM	3379	HN	LEU	359	45.416	100.926	57.778	1.00	0.00	H
ATOM	3380	CA	LEU	359	45.970	101.362	55.762	1.00	0.00	C
ATOM	3381	CB	LEU	359	44.834	100.451	55.268	1.00	0.00	C
ATOM	3382	CG	LEU	359	45.158	98.948	55.409	1.00	0.00	C
ATOM	3383	CD1	LEU	359	45.471	98.562	56.865	1.00	0.00	C
ATOM	3384	CD2	LEU	359	44.042	98.082	54.804	1.00	0.00	C
ATOM	3385	C	LEU	359	45.651	102.787	55.445	1.00	0.00	C
ATOM	3386	O	LEU	359	45.011	103.481	56.232	1.00	0.00	O
ATOM	3387	N	GLU	360	46.128	103.284	54.289	1.00	0.00	N
ATOM	3388	HN	GLU	360	46.684	102.706	53.659	1.00	0.00	H
ATOM	3389	CA	GLU	360	45.833	104.647	53.968	1.00	0.00	C
ATOM	3390	CB	GLU	360	47.046	105.574	54.156	1.00	0.00	C
ATOM	3391	CG	GLU	360	47.615	105.587	55.578	1.00	0.00	C
ATOM	3392	CD	GLU	360	46.692	106.410	56.461	1.00	0.00	C
ATOM	3393	OE1	GLU	360	45.515	105.998	56.631	1.00	0.00	O
ATOM	3394	OE2	GLU	360	47.155	107.464	56.974	1.00	0.00	O
ATOM	3395	C	GLU	360	45.484	104.709	52.518	1.00	0.00	C
ATOM	3396	O	GLU	360	46.362	104.643	51.661	1.00	0.00	O
ATOM	3397	N	PHE	361	44.188	104.855	52.190	1.00	0.00	N
ATOM	3398	HN	PHE	361	43.463	104.869	52.908	1.00	0.00	H
ATOM	3399	CA	PHE	361	43.855	104.990	50.805	1.00	0.00	C
ATOM	3400	CB	PHE	361	42.523	104.328	50.424	1.00	0.00	C
ATOM	3401	CG	PHE	361	42.802	102.869	50.334	1.00	0.00	C

ATOM	3402	CD1	PHE	361	42.797	102.074	51.456	1.00	0.00	C
ATOM	3403	CD2	PHE	361	43.096	102.304	49.115	1.00	0.00	C
ATOM	3404	CE1	PHE	361	43.063	100.729	51.358	1.00	0.00	C
ATOM	3405	CE2	PHE	361	43.361	100.960	49.011	1.00	0.00	C
ATOM	3406	CZ	PHE	361	43.344	100.170	50.135	1.00	0.00	C
ATOM	3407	C	PHE	361	43.755	106.452	50.565	1.00	0.00	C
ATOM	3408	O	PHE	361	42.808	107.100	51.006	1.00	0.00	O
ATOM	3409	N	ARG	362	44.751	107.025	49.864	1.00	0.00	N
ATOM	3410	HN	ARG	362	45.523	106.482	49.477	1.00	0.00	H
ATOM	3411	CA	ARG	362	44.661	108.437	49.695	1.00	0.00	C
ATOM	3412	CB	ARG	362	45.775	109.255	50.373	1.00	0.00	C
ATOM	3413	CG	ARG	362	45.389	109.678	51.792	1.00	0.00	C
ATOM	3414	CD	ARG	362	46.243	110.816	52.356	1.00	0.00	C
ATOM	3415	NE	ARG	362	47.355	110.222	53.147	1.00	0.00	N
ATOM	3416	HE	ARG	362	48.256	110.013	52.716	1.00	0.00	H
ATOM	3417	CZ	ARG	362	47.129	109.966	54.469	1.00	0.00	C
ATOM	3418	NH1	ARG	362	45.889	110.198	54.989	1.00	0.00	N
ATOM	3419	1HH1	ARG	362	45.144	110.557	54.392	1.00	0.00	H
ATOM	3420	2HH1	ARG	362	45.720	110.007	55.977	1.00	0.00	H
ATOM	3421	NH2	ARG	362	48.126	109.486	55.267	1.00	0.00	N
ATOM	3422	1HH2	ARG	362	49.053	109.313	54.878	1.00	0.00	H
ATOM	3423	2HH2	ARG	362	47.957	109.295	56.255	1.00	0.00	H
ATOM	3424	C	ARG	362	44.569	108.842	48.265	1.00	0.00	C
ATOM	3425	O	ARG	362	45.435	108.548	47.442	1.00	0.00	O
ATOM	3426	N	ASN	363	43.459	109.547	47.971	1.00	0.00	N
ATOM	3427	HN	ASN	363	42.761	109.643	48.709	1.00	0.00	H
ATOM	3428	CA	ASN	363	43.171	110.173	46.716	1.00	0.00	C
ATOM	3429	CB	ASN	363	43.930	111.504	46.550	1.00	0.00	C
ATOM	3430	CG	ASN	363	43.328	112.288	45.395	1.00	0.00	C
ATOM	3431	OD1	ASN	363	42.837	111.716	44.424	1.00	0.00	O
ATOM	3432	ND2	ASN	363	43.363	113.642	45.503	1.00	0.00	N
ATOM	3433	1HD2	ASN	363	43.770	114.117	46.309	1.00	0.00	H
ATOM	3434	2HD2	ASN	363	42.959	114.168	44.728	1.00	0.00	H
ATOM	3435	C	ASN	363	43.528	109.253	45.597	1.00	0.00	C
ATOM	3436	O	ASN	363	44.404	109.565	44.792	1.00	0.00	O
ATOM	3437	N	VAL	364	42.859	108.088	45.511	1.00	0.00	N
ATOM	3438	HN	VAL	364	42.111	107.866	46.167	1.00	0.00	H
ATOM	3439	CA	VAL	364	43.224	107.168	44.475	1.00	0.00	C
ATOM	3440	CB	VAL	364	43.435	105.768	44.971	1.00	0.00	C
ATOM	3441	CG1	VAL	364	43.652	104.839	43.765	1.00	0.00	C
ATOM	3442	CG2	VAL	364	44.601	105.782	45.970	1.00	0.00	C
ATOM	3443	C	VAL	364	42.160	107.090	43.438	1.00	0.00	C
ATOM	3444	O	VAL	364	40.997	106.799	43.718	1.00	0.00	O
ATOM	3445	N	HIS	365	42.575	107.332	42.184	1.00	0.00	N
ATOM	3446	HN	HIS	365	43.541	107.621	42.032	1.00	0.00	H
ATOM	3447	CA	HIS	365	41.712	107.199	41.061	1.00	0.00	C
ATOM	3448	ND1	HIS	365	42.328	110.294	41.458	1.00	0.00	N
ATOM	3449	HD1	HIS	365	43.087	109.909	42.019	1.00	0.00	H
ATOM	3450	CG	HIS	365	41.647	109.654	40.447	1.00	0.00	C
ATOM	3451	CB	HIS	365	41.941	108.265	39.984	1.00	0.00	C
ATOM	3452	NE2	HIS	365	40.817	111.735	40.693	1.00	0.00	N
ATOM	3453	HE2	HIS	365	40.256	112.578	40.568	1.00	0.00	H
ATOM	3454	CD2	HIS	365	40.727	110.548	39.993	1.00	0.00	C
ATOM	3455	CE1	HIS	365	41.794	111.535	41.563	1.00	0.00	C
ATOM	3456	C	HIS	365	42.164	105.925	40.449	1.00	0.00	C
ATOM	3457	O	HIS	365	43.345	105.588	40.516	1.00	0.00	O
ATOM	3458	N	PHE	366	41.229	105.153	39.881	1.00	0.00	N
ATOM	3459	HN	PHE	366	40.250	105.439	39.885	1.00	0.00	H
ATOM	3460	CA	PHE	366	41.619	103.929	39.273	1.00	0.00	C
ATOM	3461	CB	PHE	366	41.794	102.793	40.298	1.00	0.00	C
ATOM	3462	CG	PHE	366	41.823	101.495	39.568	1.00	0.00	C
ATOM	3463	CD1	PHE	366	42.947	101.066	38.902	1.00	0.00	C
ATOM	3464	CD2	PHE	366	40.699	100.700	39.567	1.00	0.00	C
ATOM	3465	CE1	PHE	366	42.941	99.861	38.236	1.00	0.00	C
ATOM	3466	CE2	PHE	366	40.687	99.495	38.905	1.00	0.00	C
ATOM	3467	CZ	PHE	366	41.812	99.076	38.236	1.00	0.00	C
ATOM	3468	C	PHE	366	40.559	103.530	38.328	1.00	0.00	C
ATOM	3469	O	PHE	366	39.366	103.613	38.608	1.00	0.00	O
ATOM	3470	N	SER	367	41.003	103.070	37.159	1.00	0.00	N
ATOM	3471	HN	SER	367	42.004	103.060	36.965	1.00	0.00	H
ATOM	3472	CA	SER	367	40.094	102.595	36.185	1.00	0.00	C
ATOM	3473	CB	SER	367	40.113	103.391	34.873	1.00	0.00	C
ATOM	3474	OG	SER	367	39.228	102.799	33.935	1.00	0.00	O
ATOM	3475	HG	SER	367	39.240	103.292	33.123	1.00	0.00	H

ATOM	3476	C	SER	367	40.575	101.232	35.879	1.00	0.00	C
ATOM	3477	O	SER	367	41.766	100.929	35.942	1.00	0.00	O
ATOM	3478	N	TYR	368	39.621	100.362	35.569	1.00	0.00	N
ATOM	3479	HN	TYR	368	38.642	100.647	35.594	1.00	0.00	H
ATOM	3480	CA	TYR	368	39.965	99.038	35.204	1.00	0.00	C
ATOM	3481	CB	TYR	368	38.746	98.185	34.794	1.00	0.00	C
ATOM	3482	CG	TYR	368	38.118	97.680	36.049	1.00	0.00	C
ATOM	3483	CD1	TYR	368	38.613	96.538	36.638	1.00	0.00	C
ATOM	3484	CD2	TYR	368	37.068	98.330	36.651	1.00	0.00	C
ATOM	3485	CE1	TYR	368	38.067	96.039	37.796	1.00	0.00	C
ATOM	3486	CE2	TYR	368	36.517	97.833	37.810	1.00	0.00	C
ATOM	3487	CZ	TYR	368	37.011	96.688	38.385	1.00	0.00	C
ATOM	3488	OH	TYR	368	36.440	96.187	39.573	1.00	0.00	O
ATOM	3489	HH	TYR	368	36.782	95.395	39.971	1.00	0.00	H
ATOM	3490	C	TYR	368	40.994	99.055	34.100	1.00	0.00	C
ATOM	3491	O	TYR	368	41.134	100.032	33.365	1.00	0.00	O
ATOM	3492	N	PRO	369	41.766	97.998	34.004	1.00	0.00	N
ATOM	3493	CA	PRO	369	42.839	97.923	33.050	1.00	0.00	C
ATOM	3494	CD	PRO	369	41.309	96.673	34.392	1.00	0.00	C
ATOM	3495	CB	PRO	369	43.341	96.487	33.106	1.00	0.00	C
ATOM	3496	CG	PRO	369	42.075	95.708	33.487	1.00	0.00	C
ATOM	3497	C	PRO	369	42.400	98.284	31.670	1.00	0.00	C
ATOM	3498	O	PRO	369	43.252	98.707	30.892	1.00	0.00	O
ATOM	3499	N	SER	370	41.126	98.069	31.293	1.00	0.00	N
ATOM	3500	HN	SER	370	40.453	97.590	31.892	1.00	0.00	H
ATOM	3501	CA	SER	370	40.781	98.560	29.991	1.00	0.00	C
ATOM	3502	CB	SER	370	39.358	98.199	29.538	1.00	0.00	C
ATOM	3503	OG	SER	370	39.231	96.799	29.347	1.00	0.00	O
ATOM	3504	HG	SER	370	38.351	96.576	29.067	1.00	0.00	H
ATOM	3505	C	SER	370	40.903	100.043	30.131	1.00	0.00	C
ATOM	3506	O	SER	370	40.219	100.670	30.931	1.00	0.00	O
ATOM	3507	N	ARG	371	41.719	100.672	29.283	1.00	0.00	N
ATOM	3508	HN	ARG	371	42.052	100.190	28.448	1.00	0.00	H
ATOM	3509	CA	ARG	371	42.131	102.025	29.540	1.00	0.00	C
ATOM	3510	CB	ARG	371	43.152	102.560	28.514	1.00	0.00	C
ATOM	3511	CG	ARG	371	42.533	102.825	27.149	1.00	0.00	C
ATOM	3512	CD	ARG	371	41.942	104.234	27.097	1.00	0.00	C
ATOM	3513	NE	ARG	371	40.718	104.177	26.257	1.00	0.00	N
ATOM	3514	HE	ARG	371	39.833	103.942	26.706	1.00	0.00	H
ATOM	3515	CZ	ARG	371	40.718	104.423	24.916	1.00	0.00	C
ATOM	3516	NH1	ARG	371	41.864	104.773	24.265	1.00	0.00	N
ATOM	3517	1HH1	ARG	371	42.744	104.851	24.775	1.00	0.00	H
ATOM	3518	2HH1	ARG	371	41.864	104.957	23.262	1.00	0.00	H
ATOM	3519	NH2	ARG	371	39.541	104.319	24.233	1.00	0.00	N
ATOM	3520	1HH2	ARG	371	38.684	104.057	24.720	1.00	0.00	H
ATOM	3521	2HH2	ARG	371	39.541	104.503	23.230	1.00	0.00	H
ATOM	3522	C	ARG	371	40.984	103.016	29.628	1.00	0.00	C
ATOM	3523	O	ARG	371	41.092	103.995	30.362	1.00	0.00	O
ATOM	3524	N	LYS	372	39.906	102.865	28.832	1.00	0.00	N
ATOM	3525	HN	LYS	372	39.861	102.042	28.232	1.00	0.00	H
ATOM	3526	CA	LYS	372	38.806	103.812	28.784	1.00	0.00	C
ATOM	3527	CB	LYS	372	38.096	103.831	27.419	1.00	0.00	C
ATOM	3528	CG	LYS	372	38.357	102.593	26.563	1.00	0.00	C
ATOM	3529	CD	LYS	372	37.828	101.266	27.096	1.00	0.00	C
ATOM	3530	CE	LYS	372	38.179	100.116	26.149	1.00	0.00	C
ATOM	3531	NZ	LYS	372	37.548	98.859	26.600	1.00	0.00	N
ATOM	3532	HZ1	LYS	372	37.782	98.093	25.969	1.00	0.00	H
ATOM	3533	HZ2	LYS	372	36.540	98.961	26.713	1.00	0.00	H
ATOM	3534	HZ3	LYS	372	37.789	98.640	27.567	1.00	0.00	H
ATOM	3535	C	LYS	372	37.758	103.841	29.879	1.00	0.00	C
ATOM	3536	O	LYS	372	37.287	104.925	30.222	1.00	0.00	O
ATOM	3537	N	GLU	373	37.352	102.695	30.468	1.00	0.00	N
ATOM	3538	HN	GLU	373	37.862	101.830	30.289	1.00	0.00	H
ATOM	3539	CA	GLU	373	36.202	102.677	31.350	1.00	0.00	C
ATOM	3540	CB	GLU	373	35.871	101.296	31.945	1.00	0.00	C
ATOM	3541	CG	GLU	373	35.361	100.302	30.896	1.00	0.00	C
ATOM	3542	CD	GLU	373	36.576	99.807	30.143	1.00	0.00	C
ATOM	3543	OE1	GLU	373	37.689	100.028	30.688	1.00	0.00	O
ATOM	3544	OE2	GLU	373	36.424	99.224	29.035	1.00	0.00	O
ATOM	3545	C	GLU	373	36.330	103.662	32.466	1.00	0.00	C
ATOM	3546	O	GLU	373	37.407	104.182	32.750	1.00	0.00	O
ATOM	3547	N	VAL	374	35.177	103.966	33.102	1.00	0.00	N
ATOM	3548	HN	VAL	374	34.322	103.481	32.830	1.00	0.00	H
ATOM	3549	CA	VAL	374	35.116	104.945	34.144	1.00	0.00	C

ATOM	3550	CB	VAL	374	33.752	105.111	34.751	1.00	0.00	C
ATOM	3551	CG1	VAL	374	33.341	103.784	35.412	1.00	0.00	C
ATOM	3552	CG2	VAL	374	33.803	106.292	35.735	1.00	0.00	C
ATOM	3553	C	VAL	374	36.039	104.556	35.240	1.00	0.00	C
ATOM	3554	O	VAL	374	36.141	103.389	35.614	1.00	0.00	O
ATOM	3555	N	LYS	375	36.757	105.558	35.780	1.00	0.00	N
ATOM	3556	HN	LYS	375	36.654	106.513	35.436	1.00	0.00	H
ATOM	3557	CA	LYS	375	37.665	105.264	36.841	1.00	0.00	C
ATOM	3558	CB	LYS	375	38.364	106.512	37.407	1.00	0.00	C
ATOM	3559	CG	LYS	375	38.931	107.498	36.384	1.00	0.00	C
ATOM	3560	CD	LYS	375	40.074	106.976	35.520	1.00	0.00	C
ATOM	3561	CE	LYS	375	40.632	108.064	34.600	1.00	0.00	C
ATOM	3562	NZ	LYS	375	41.738	107.533	33.775	1.00	0.00	N
ATOM	3563	HZ1	LYS	375	42.110	108.258	33.162	1.00	0.00	H
ATOM	3564	HZ2	LYS	375	41.456	106.704	33.252	1.00	0.00	H
ATOM	3565	HZ3	LYS	375	42.469	107.111	34.348	1.00	0.00	H
ATOM	3566	C	LYS	375	36.775	104.829	37.947	1.00	0.00	C
ATOM	3567	O	LYS	375	36.181	105.674	38.616	1.00	0.00	O
ATOM	3568	N	ILE	376	36.734	103.510	38.210	1.00	0.00	N
ATOM	3569	HN	ILE	376	37.348	102.889	37.683	1.00	0.00	H
ATOM	3570	CA	ILE	376	35.871	102.941	39.193	1.00	0.00	C
ATOM	3571	CB	ILE	376	36.277	101.529	39.424	1.00	0.00	C
ATOM	3572	CG1	ILE	376	36.126	100.731	38.123	1.00	0.00	C
ATOM	3573	CG2	ILE	376	35.560	101.006	40.667	1.00	0.00	C
ATOM	3574	CD1	ILE	376	34.762	100.867	37.458	1.00	0.00	C
ATOM	3575	C	ILE	376	36.182	103.671	40.453	1.00	0.00	C
ATOM	3576	O	ILE	376	35.296	104.227	41.101	1.00	0.00	O
ATOM	3577	N	LEU	377	37.480	103.743	40.791	1.00	0.00	N
ATOM	3578	HN	LEU	377	38.189	103.233	40.264	1.00	0.00	H
ATOM	3579	CA	LEU	377	37.838	104.553	41.909	1.00	0.00	C
ATOM	3580	CB	LEU	377	39.148	104.126	42.599	1.00	0.00	C
ATOM	3581	CG	LEU	377	39.081	102.726	43.251	1.00	0.00	C
ATOM	3582	CD1	LEU	377	40.331	102.441	44.095	1.00	0.00	C
ATOM	3583	CD2	LEU	377	37.776	102.528	44.038	1.00	0.00	C
ATOM	3584	C	LEU	377	38.009	105.918	41.315	1.00	0.00	C
ATOM	3585	O	LEU	377	39.037	106.256	40.740	1.00	0.00	O
ATOM	3586	N	LYS	378	36.954	106.729	41.454	1.00	0.00	N
ATOM	3587	HN	LYS	378	36.194	106.349	42.018	1.00	0.00	H
ATOM	3588	CA	LYS	378	36.719	108.048	40.938	1.00	0.00	C
ATOM	3589	CB	LYS	378	35.246	108.470	41.046	1.00	0.00	C
ATOM	3590	CG	LYS	378	34.752	108.597	42.484	1.00	0.00	C
ATOM	3591	CD	LYS	378	33.395	109.284	42.594	1.00	0.00	C
ATOM	3592	CE	LYS	378	32.902	109.421	44.033	1.00	0.00	C
ATOM	3593	NZ	LYS	378	31.533	109.974	44.042	1.00	0.00	N
ATOM	3594	HZ1	LYS	378	31.204	110.065	45.003	1.00	0.00	H
ATOM	3595	HZ2	LYS	378	30.894	109.424	43.468	1.00	0.00	H
ATOM	3596	HZ3	LYS	378	31.471	110.854	43.530	1.00	0.00	H
ATOM	3597	C	LYS	378	37.543	109.086	41.633	1.00	0.00	C
ATOM	3598	O	LYS	378	37.301	110.278	41.440	1.00	0.00	O
ATOM	3599	N	GLY	379	38.496	108.689	42.498	1.00	0.00	N
ATOM	3600	HN	GLY	379	38.759	107.706	42.571	1.00	0.00	H
ATOM	3601	CA	GLY	379	39.132	109.684	43.314	1.00	0.00	C
ATOM	3602	C	GLY	379	38.580	109.449	44.677	1.00	0.00	C
ATOM	3603	O	GLY	379	37.660	110.121	45.143	1.00	0.00	O
ATOM	3604	N	LEU	380	39.117	108.379	45.297	1.00	0.00	N
ATOM	3605	HN	LEU	380	39.889	107.898	44.834	1.00	0.00	H
ATOM	3606	CA	LEU	380	38.677	107.873	46.560	1.00	0.00	C
ATOM	3607	CB	LEU	380	38.410	106.352	46.453	1.00	0.00	C
ATOM	3608	CG	LEU	380	38.205	105.574	47.766	1.00	0.00	C
ATOM	3609	CD1	LEU	380	39.549	105.283	48.456	1.00	0.00	C
ATOM	3610	CD2	LEU	380	37.203	106.281	48.690	1.00	0.00	C
ATOM	3611	C	LEU	380	39.685	108.128	47.629	1.00	0.00	C
ATOM	3612	O	LEU	380	40.884	107.913	47.452	1.00	0.00	O
ATOM	3613	N	ASN	381	39.183	108.612	48.782	1.00	0.00	N
ATOM	3614	HN	ASN	381	38.179	108.782	48.838	1.00	0.00	H
ATOM	3615	CA	ASN	381	39.983	108.899	49.929	1.00	0.00	C
ATOM	3616	CB	ASN	381	39.895	110.371	50.367	1.00	0.00	C
ATOM	3617	CG	ASN	381	40.370	111.233	49.202	1.00	0.00	C
ATOM	3618	OD1	ASN	381	39.563	111.770	48.446	1.00	0.00	O
ATOM	3619	ND2	ASN	381	41.711	111.367	49.038	1.00	0.00	N
ATOM	3620	1HD2	ASN	381	42.381	110.921	49.665	1.00	0.00	H
ATOM	3621	2HD2	ASN	381	42.029	111.944	48.259	1.00	0.00	H
ATOM	3622	C	ASN	381	39.408	108.079	51.034	1.00	0.00	C
ATOM	3623	O	ASN	381	38.188	107.968	51.173	1.00	0.00	O

ATOM	3624	N	LEU	382	40.283	107.435	51.826	1.00	0.00	N
ATOM	3625	HN	LEU	382	41.287	107.504	51.662	1.00	0.00	H
ATOM	3626	CA	LEU	382	39.768	106.653	52.901	1.00	0.00	C
ATOM	3627	CB	LEU	382	39.045	105.381	52.389	1.00	0.00	C
ATOM	3628	CG	LEU	382	38.307	104.496	53.423	1.00	0.00	C
ATOM	3629	CD1	LEU	382	37.622	103.312	52.720	1.00	0.00	C
ATOM	3630	CD2	LEU	382	39.221	104.009	54.556	1.00	0.00	C
ATOM	3631	C	LEU	382	40.943	106.249	53.720	1.00	0.00	C
ATOM	3632	O	LEU	382	42.005	105.915	53.193	1.00	0.00	O
ATOM	3633	N	LYS	383	40.785	106.301	55.050	1.00	0.00	N
ATOM	3634	HN	LYS	383	39.911	106.641	55.452	1.00	0.00	H
ATOM	3635	CA	LYS	383	41.851	105.876	55.897	1.00	0.00	C
ATOM	3636	CB	LYS	383	42.417	106.981	56.799	1.00	0.00	C
ATOM	3637	CG	LYS	383	43.010	108.176	56.058	1.00	0.00	C
ATOM	3638	CD	LYS	383	43.281	109.359	56.990	1.00	0.00	C
ATOM	3639	CE	LYS	383	42.131	109.640	57.961	1.00	0.00	C
ATOM	3640	NZ	LYS	383	40.906	110.006	57.215	1.00	0.00	N
ATOM	3641	HZ1	LYS	383	40.140	110.193	57.862	1.00	0.00	H
ATOM	3642	HZ2	LYS	383	40.656	109.299	56.524	1.00	0.00	H
ATOM	3643	HZ3	LYS	383	41.067	110.788	56.580	1.00	0.00	H
ATOM	3644	C	LYS	383	41.238	104.903	56.835	1.00	0.00	C
ATOM	3645	O	LYS	383	40.025	104.937	57.052	1.00	0.00	O
ATOM	3646	N	VAL	384	42.056	103.978	57.379	1.00	0.00	N
ATOM	3647	HN	VAL	384	43.033	103.911	57.094	1.00	0.00	H
ATOM	3648	CA	VAL	384	41.518	103.094	58.366	1.00	0.00	C
ATOM	3649	CB	VAL	384	41.082	101.767	57.811	1.00	0.00	C
ATOM	3650	CG1	VAL	384	42.289	101.036	57.196	1.00	0.00	C
ATOM	3651	CG2	VAL	384	40.392	100.991	58.942	1.00	0.00	C
ATOM	3652	C	VAL	384	42.582	102.862	59.400	1.00	0.00	C
ATOM	3653	O	VAL	384	43.694	102.420	59.102	1.00	0.00	O
ATOM	3654	N	GLN	385	42.225	103.119	60.668	1.00	0.00	N
ATOM	3655	HN	GLN	385	41.258	103.390	60.846	1.00	0.00	H
ATOM	3656	CA	GLN	385	43.114	103.037	61.785	1.00	0.00	C
ATOM	3657	CB	GLN	385	42.478	103.563	63.084	1.00	0.00	C
ATOM	3658	CG	GLN	385	42.062	105.033	62.991	1.00	0.00	C
ATOM	3659	CD	GLN	385	41.386	105.428	64.298	1.00	0.00	C
ATOM	3660	OE1	GLN	385	40.667	106.423	64.362	1.00	0.00	O
ATOM	3661	NE2	GLN	385	41.618	104.625	65.369	1.00	0.00	N
ATOM	3662	1HE2	GLN	385	42.215	103.799	65.316	1.00	0.00	H
ATOM	3663	2HE2	GLN	385	41.165	104.889	66.244	1.00	0.00	H
ATOM	3664	C	GLN	385	43.498	101.611	62.015	1.00	0.00	C
ATOM	3665	O	GLN	385	42.895	100.692	61.466	1.00	0.00	O
ATOM	3666	N	SER	386	44.558	101.403	62.823	1.00	0.00	N
ATOM	3667	HN	SER	386	45.044	102.207	63.219	1.00	0.00	H
ATOM	3668	CA	SER	386	45.021	100.082	63.141	1.00	0.00	C
ATOM	3669	CB	SER	386	46.354	100.077	63.906	1.00	0.00	C
ATOM	3670	OG	SER	386	46.193	100.731	65.158	1.00	0.00	O
ATOM	3671	HG	SER	386	47.017	100.728	65.631	1.00	0.00	H
ATOM	3672	C	SER	386	44.021	99.441	64.044	1.00	0.00	C
ATOM	3673	O	SER	386	43.169	100.109	64.625	1.00	0.00	O
ATOM	3674	N	GLY	387	44.049	98.097	64.087	1.00	0.00	N
ATOM	3675	HN	GLY	387	44.649	97.608	63.423	1.00	0.00	H
ATOM	3676	CA	GLY	387	43.283	97.310	65.013	1.00	0.00	C
ATOM	3677	C	GLY	387	41.805	97.422	64.751	1.00	0.00	C
ATOM	3678	O	GLY	387	41.017	96.651	65.295	1.00	0.00	O
ATOM	3679	N	GLN	388	41.378	98.367	63.896	1.00	0.00	N
ATOM	3680	HN	GLN	388	42.056	98.944	63.399	1.00	0.00	H
ATOM	3681	CA	GLN	388	39.978	98.569	63.678	1.00	0.00	C
ATOM	3682	CB	GLN	388	39.607	100.000	63.265	1.00	0.00	C
ATOM	3683	CG	GLN	388	39.784	100.994	64.415	1.00	0.00	C
ATOM	3684	CD	GLN	388	39.255	102.352	63.977	1.00	0.00	C
ATOM	3685	OE1	GLN	388	39.176	102.650	62.786	1.00	0.00	O
ATOM	3686	NE2	GLN	388	38.880	103.201	64.971	1.00	0.00	N
ATOM	3687	1HE2	GLN	388	38.525	104.111	64.677	1.00	0.00	H
ATOM	3688	2HE2	GLN	388	38.945	102.954	65.958	1.00	0.00	H
ATOM	3689	C	GLN	388	39.510	97.623	62.637	1.00	0.00	C
ATOM	3690	O	GLN	388	40.240	96.730	62.207	1.00	0.00	O
ATOM	3691	N	THR	389	38.213	97.738	62.303	1.00	0.00	N
ATOM	3692	HN	THR	389	37.620	98.400	62.804	1.00	0.00	H
ATOM	3693	CA	THR	389	37.656	96.946	61.257	1.00	0.00	C
ATOM	3694	CB	THR	389	36.915	95.752	61.764	1.00	0.00	C
ATOM	3695	OG1	THR	389	37.774	94.921	62.528	1.00	0.00	O
ATOM	3696	HG1	THR	389	38.100	95.402	63.280	1.00	0.00	H
ATOM	3697	CG2	THR	389	36.392	94.979	60.557	1.00	0.00	C

ATOM	3698	C	THR	389	36.657	97.825	60.564	1.00	0.00	C
ATOM	3699	O	THR	389	35.762	98.377	61.203	1.00	0.00	O
ATOM	3700	N	VAL	390	36.767	97.963	59.227	1.00	0.00	N
ATOM	3701	HN	VAL	390	37.484	97.452	58.713	1.00	0.00	H
ATOM	3702	CA	VAL	390	35.860	98.840	58.535	1.00	0.00	C
ATOM	3703	CB	VAL	390	36.523	99.848	57.645	1.00	0.00	C
ATOM	3704	CG1	VAL	390	37.499	100.691	58.469	1.00	0.00	C
ATOM	3705	CG2	VAL	390	37.150	99.107	56.458	1.00	0.00	C
ATOM	3706	C	VAL	390	35.004	98.032	57.607	1.00	0.00	C
ATOM	3707	O	VAL	390	35.441	97.031	57.041	1.00	0.00	O
ATOM	3708	N	ALA	391	33.747	98.483	57.411	1.00	0.00	N
ATOM	3709	HN	ALA	391	33.443	99.340	57.872	1.00	0.00	H
ATOM	3710	CA	ALA	391	32.830	97.772	56.561	1.00	0.00	C
ATOM	3711	CB	ALA	391	31.454	97.537	57.205	1.00	0.00	C
ATOM	3712	C	ALA	391	32.582	98.550	55.304	1.00	0.00	C
ATOM	3713	O	ALA	391	32.318	99.750	55.322	1.00	0.00	O
ATOM	3714	N	LEU	392	32.654	97.862	54.151	1.00	0.00	N
ATOM	3715	HN	LEU	392	32.897	96.871	54.161	1.00	0.00	H
ATOM	3716	CA	LEU	392	32.388	98.524	52.905	1.00	0.00	C
ATOM	3717	CB	LEU	392	33.458	98.257	51.837	1.00	0.00	C
ATOM	3718	CG	LEU	392	34.823	98.878	52.178	1.00	0.00	C
ATOM	3719	CD1	LEU	392	35.378	98.317	53.496	1.00	0.00	C
ATOM	3720	CD2	LEU	392	35.803	98.723	51.005	1.00	0.00	C
ATOM	3721	C	LEU	392	31.084	98.006	52.391	1.00	0.00	C
ATOM	3722	O	LEU	392	30.810	96.808	52.423	1.00	0.00	O
ATOM	3723	N	VAL	393	30.219	98.914	51.905	1.00	0.00	N
ATOM	3724	HN	VAL	393	30.467	99.902	51.851	1.00	0.00	H
ATOM	3725	CA	VAL	393	28.939	98.449	51.466	1.00	0.00	C
ATOM	3726	CB	VAL	393	27.849	99.063	52.291	1.00	0.00	C
ATOM	3727	CG1	VAL	393	26.500	98.547	51.805	1.00	0.00	C
ATOM	3728	CG2	VAL	393	28.129	98.780	53.774	1.00	0.00	C
ATOM	3729	C	VAL	393	28.712	98.861	50.035	1.00	0.00	C
ATOM	3730	O	VAL	393	28.616	100.049	49.755	1.00	0.00	O
ATOM	3731	N	GLY	394	28.566	97.895	49.096	1.00	0.00	N
ATOM	3732	HN	GLY	394	28.600	96.917	49.384	1.00	0.00	H
ATOM	3733	CA	GLY	394	28.363	98.208	47.695	1.00	0.00	C
ATOM	3734	C	GLY	394	27.554	97.092	47.082	1.00	0.00	C
ATOM	3735	O	GLY	394	27.218	96.128	47.769	1.00	0.00	O
ATOM	3736	N	ASN	395	27.186	97.203	45.777	1.00	0.00	N
ATOM	3737	HN	ASN	395	27.459	98.029	45.244	1.00	0.00	H
ATOM	3738	CA	ASN	395	26.411	96.160	45.138	1.00	0.00	C
ATOM	3739	CB	ASN	395	24.893	96.213	45.402	1.00	0.00	C
ATOM	3740	CG	ASN	395	24.539	95.301	46.573	1.00	0.00	C
ATOM	3741	OD1	ASN	395	25.343	94.481	47.014	1.00	0.00	O
ATOM	3742	ND2	ASN	395	23.271	95.405	47.055	1.00	0.00	N
ATOM	3743	1HD2	ASN	395	22.604	96.085	46.689	1.00	0.00	H
ATOM	3744	2HD2	ASN	395	23.034	94.795	47.838	1.00	0.00	H
ATOM	3745	C	ASN	395	26.556	96.116	43.649	1.00	0.00	C
ATOM	3746	O	ASN	395	26.733	95.036	43.088	1.00	0.00	O
ATOM	3747	N	SER	396	26.497	97.273	42.955	1.00	0.00	N
ATOM	3748	HN	SER	396	26.435	98.153	43.467	1.00	0.00	H
ATOM	3749	CA	SER	396	26.519	97.306	41.512	1.00	0.00	C
ATOM	3750	CB	SER	396	26.267	98.702	40.931	1.00	0.00	C
ATOM	3751	OG	SER	396	24.983	99.171	41.308	1.00	0.00	O
ATOM	3752	HG	SER	396	24.827	100.036	40.948	1.00	0.00	H
ATOM	3753	C	SER	396	27.842	96.809	41.032	1.00	0.00	C
ATOM	3754	O	SER	396	28.099	96.749	39.832	1.00	0.00	O
ATOM	3755	N	GLY	397	28.751	96.500	41.965	1.00	0.00	N
ATOM	3756	HN	GLY	397	28.578	96.734	42.943	1.00	0.00	H
ATOM	3757	CA	GLY	397	29.958	95.846	41.593	1.00	0.00	C
ATOM	3758	C	GLY	397	30.936	96.847	41.109	1.00	0.00	C
ATOM	3759	O	GLY	397	30.700	98.047	41.113	1.00	0.00	O
ATOM	3760	N	CYS	398	32.076	96.362	40.618	1.00	0.00	N
ATOM	3761	HN	CYS	398	32.233	95.355	40.587	1.00	0.00	H
ATOM	3762	CA	CYS	398	33.073	97.256	40.137	1.00	0.00	C
ATOM	3763	CB	CYS	398	32.685	97.957	38.825	1.00	0.00	C
ATOM	3764	SG	CYS	398	32.441	96.775	37.468	1.00	0.00	S
ATOM	3765	C	CYS	398	33.431	98.322	41.125	1.00	0.00	C
ATOM	3766	O	CYS	398	33.297	99.507	40.827	1.00	0.00	O
ATOM	3767	N	GLY	399	33.980	97.933	42.297	1.00	0.00	N
ATOM	3768	HN	GLY	399	34.039	96.948	42.556	1.00	0.00	H
ATOM	3769	CA	GLY	399	34.477	98.967	43.164	1.00	0.00	C
ATOM	3770	C	GLY	399	34.836	98.469	44.536	1.00	0.00	C
ATOM	3771	O	GLY	399	36.022	98.418	44.870	1.00	0.00	O

ATOM	3772	N	LYS	400	33.868	98.020	45.347	1.00	0.00	N
ATOM	3773	HN	LYS	400	32.915	97.916	44.999	1.00	0.00	H
ATOM	3774	CA	LYS	400	34.180	97.684	46.715	1.00	0.00	C
ATOM	3775	CB	LYS	400	32.978	97.071	47.446	1.00	0.00	C
ATOM	3776	CG	LYS	400	31.729	97.953	47.449	1.00	0.00	C
ATOM	3777	CD	LYS	400	31.062	98.095	46.077	1.00	0.00	C
ATOM	3778	CE	LYS	400	30.461	96.794	45.534	1.00	0.00	C
ATOM	3779	NZ	LYS	400	31.519	95.948	44.937	1.00	0.00	N
ATOM	3780	HZ1	LYS	400	31.119	95.082	44.576	1.00	0.00	H
ATOM	3781	HZ2	LYS	400	32.279	95.771	45.593	1.00	0.00	H
ATOM	3782	HZ3	LYS	400	32.049	96.449	44.224	1.00	0.00	H
ATOM	3783	C	LYS	400	35.235	96.632	46.740	1.00	0.00	C
ATOM	3784	O	LYS	400	36.343	96.862	47.223	1.00	0.00	O
ATOM	3785	N	SER	401	34.945	95.508	46.073	1.00	0.00	N
ATOM	3786	HN	SER	401	34.072	95.456	45.547	1.00	0.00	H
ATOM	3787	CA	SER	401	35.815	94.386	46.075	1.00	0.00	C
ATOM	3788	CB	SER	401	35.314	93.254	45.169	1.00	0.00	C
ATOM	3789	OG	SER	401	35.241	93.708	43.826	1.00	0.00	O
ATOM	3790	HG	SER	401	34.931	93.007	43.265	1.00	0.00	H
ATOM	3791	C	SER	401	37.127	94.849	45.546	1.00	0.00	C
ATOM	3792	O	SER	401	38.136	94.362	46.041	1.00	0.00	O
ATOM	3793	N	THR	402	37.135	95.803	44.572	1.00	0.00	N
ATOM	3794	HN	THR	402	36.246	96.222	44.299	1.00	0.00	H
ATOM	3795	CA	THR	402	38.336	96.253	43.905	1.00	0.00	C
ATOM	3796	CB	THR	402	38.117	96.972	42.597	1.00	0.00	C
ATOM	3797	OG1	THR	402	39.307	96.884	41.838	1.00	0.00	O
ATOM	3798	HG1	THR	402	39.169	97.337	41.014	1.00	0.00	H
ATOM	3799	CG2	THR	402	37.802	98.459	42.802	1.00	0.00	C
ATOM	3800	C	THR	402	39.259	97.053	44.778	1.00	0.00	C
ATOM	3801	O	THR	402	40.475	96.945	44.652	1.00	0.00	O
ATOM	3802	N	THR	403	38.744	97.923	45.658	1.00	0.00	N
ATOM	3803	HN	THR	403	37.739	98.089	45.710	1.00	0.00	H
ATOM	3804	CA	THR	403	39.658	98.613	46.525	1.00	0.00	C
ATOM	3805	CB	THR	403	38.952	99.566	47.439	1.00	0.00	C
ATOM	3806	OG1	THR	403	38.092	100.402	46.684	1.00	0.00	O
ATOM	3807	HG1	THR	403	37.440	99.869	46.245	1.00	0.00	H
ATOM	3808	CG2	THR	403	40.008	100.430	48.150	1.00	0.00	C
ATOM	3809	C	THR	403	40.237	97.538	47.394	1.00	0.00	C
ATOM	3810	O	THR	403	41.424	97.527	47.711	1.00	0.00	O
ATOM	3811	N	VAL	404	39.377	96.579	47.786	1.00	0.00	N
ATOM	3812	HN	VAL	404	38.404	96.643	47.486	1.00	0.00	H
ATOM	3813	CA	VAL	404	39.770	95.472	48.607	1.00	0.00	C
ATOM	3814	CB	VAL	404	38.637	94.532	48.899	1.00	0.00	C
ATOM	3815	CG1	VAL	404	39.187	93.313	49.660	1.00	0.00	C
ATOM	3816	CG2	VAL	404	37.548	95.303	49.664	1.00	0.00	C
ATOM	3817	C	VAL	404	40.773	94.738	47.810	1.00	0.00	C
ATOM	3818	O	VAL	404	41.579	93.976	48.346	1.00	0.00	O
ATOM	3819	N	GLN	405	40.647	94.891	46.482	1.00	0.00	N
ATOM	3820	HN	GLN	405	39.929	95.518	46.119	1.00	0.00	H
ATOM	3821	CA	GLN	405	41.487	94.202	45.572	1.00	0.00	C
ATOM	3822	CB	GLN	405	40.971	94.309	44.126	1.00	0.00	C
ATOM	3823	CG	GLN	405	41.557	93.272	43.175	1.00	0.00	C
ATOM	3824	CD	GLN	405	40.767	91.994	43.410	1.00	0.00	C
ATOM	3825	OE1	GLN	405	39.617	91.876	42.991	1.00	0.00	O
ATOM	3826	NE2	GLN	405	41.392	91.015	44.115	1.00	0.00	N
ATOM	3827	1HE2	GLN	405	42.346	91.113	44.463	1.00	0.00	H
ATOM	3828	2HE2	GLN	405	40.862	90.158	44.273	1.00	0.00	H
ATOM	3829	C	GLN	405	42.906	94.696	45.573	1.00	0.00	C
ATOM	3830	O	GLN	405	43.814	93.966	45.962	1.00	0.00	O
ATOM	3831	N	LEU	406	43.088	95.994	45.247	1.00	0.00	N
ATOM	3832	HN	LEU	406	42.234	96.534	45.105	1.00	0.00	H
ATOM	3833	CA	LEU	406	44.313	96.721	45.072	1.00	0.00	C
ATOM	3834	CB	LEU	406	44.005	98.137	44.535	1.00	0.00	C
ATOM	3835	CG	LEU	406	45.172	99.133	44.453	1.00	0.00	C
ATOM	3836	CD1	LEU	406	44.772	100.350	43.611	1.00	0.00	C
ATOM	3837	CD2	LEU	406	45.598	99.618	45.843	1.00	0.00	C
ATOM	3838	C	LEU	406	45.012	96.764	46.381	1.00	0.00	C
ATOM	3839	O	LEU	406	46.205	97.033	46.475	1.00	0.00	O
ATOM	3840	N	MET	407	44.260	96.501	47.450	1.00	0.00	N
ATOM	3841	HN	MET	407	43.267	96.307	47.318	1.00	0.00	H
ATOM	3842	CA	MET	407	44.795	96.481	48.774	1.00	0.00	C
ATOM	3843	CB	MET	407	43.711	96.185	49.824	1.00	0.00	C
ATOM	3844	CG	MET	407	43.951	96.815	51.202	1.00	0.00	C
ATOM	3845	SD	MET	407	45.425	96.289	52.126	1.00	0.00	S

ATOM	3846	CE	MET	407	46.580	97.416	51.293	1.00	0.00	C
ATOM	3847	C	MET	407	45.806	95.351	48.791	1.00	0.00	C
ATOM	3848	O	MET	407	46.540	95.146	49.755	1.00	0.00	O
ATOM	3849	N	GLN	408	45.656	94.433	47.823	1.00	0.00	N
ATOM	3850	HN	GLN	408	44.816	94.547	47.256	1.00	0.00	H
ATOM	3851	CA	GLN	408	46.484	93.313	47.451	1.00	0.00	C
ATOM	3852	CB	GLN	408	45.643	92.151	46.910	1.00	0.00	C
ATOM	3853	CG	GLN	408	44.695	91.578	47.966	1.00	0.00	C
ATOM	3854	CD	GLN	408	43.822	90.525	47.299	1.00	0.00	C
ATOM	3855	OE1	GLN	408	43.015	90.832	46.425	1.00	0.00	O
ATOM	3856	NE2	GLN	408	43.984	89.245	47.721	1.00	0.00	N
ATOM	3857	1HE2	GLN	408	43.399	88.539	47.274	1.00	0.00	H
ATOM	3858	2HE2	GLN	408	44.654	88.990	48.447	1.00	0.00	H
ATOM	3859	C	GLN	408	47.526	93.659	46.416	1.00	0.00	C
ATOM	3860	O	GLN	408	48.296	92.801	45.996	1.00	0.00	O
ATOM	3861	N	ARG	409	47.446	94.868	45.846	1.00	0.00	N
ATOM	3862	HN	ARG	409	46.731	95.490	46.224	1.00	0.00	H
ATOM	3863	CA	ARG	409	48.235	95.404	44.772	1.00	0.00	C
ATOM	3864	CB	ARG	409	49.756	95.485	44.971	1.00	0.00	C
ATOM	3865	CG	ARG	409	50.518	94.173	44.990	1.00	0.00	C
ATOM	3866	CD	ARG	409	51.981	94.423	44.638	1.00	0.00	C
ATOM	3867	NE	ARG	409	52.003	95.093	43.306	1.00	0.00	N
ATOM	3868	HE	ARG	409	51.369	94.790	42.567	1.00	0.00	H
ATOM	3869	CZ	ARG	409	52.879	96.114	43.086	1.00	0.00	C
ATOM	3870	NH1	ARG	409	53.669	96.550	44.106	1.00	0.00	N
ATOM	3871	1HH1	ARG	409	54.324	97.314	43.941	1.00	0.00	H
ATOM	3872	2HH1	ARG	409	53.599	96.112	45.025	1.00	0.00	H
ATOM	3873	NH2	ARG	409	52.972	96.699	41.858	1.00	0.00	N
ATOM	3874	1HH2	ARG	409	53.627	97.463	41.693	1.00	0.00	H
ATOM	3875	2HH2	ARG	409	52.380	96.372	41.094	1.00	0.00	H
ATOM	3876	C	ARG	409	47.935	94.583	43.594	1.00	0.00	C
ATOM	3877	O	ARG	409	48.719	94.488	42.649	1.00	0.00	O
ATOM	3878	N	LEU	410	46.704	94.049	43.617	1.00	0.00	N
ATOM	3879	HN	LEU	410	46.080	94.254	44.398	1.00	0.00	H
ATOM	3880	CA	LEU	410	46.262	93.207	42.573	1.00	0.00	C
ATOM	3881	CB	LEU	410	44.807	92.739	42.728	1.00	0.00	C
ATOM	3882	CG	LEU	410	44.479	91.509	41.856	1.00	0.00	C
ATOM	3883	CD1	LEU	410	44.617	91.795	40.354	1.00	0.00	C
ATOM	3884	CD2	LEU	410	45.310	90.296	42.310	1.00	0.00	C
ATOM	3885	C	LEU	410	46.386	94.056	41.344	1.00	0.00	C
ATOM	3886	O	LEU	410	46.819	93.567	40.311	1.00	0.00	O
ATOM	3887	N	TYR	411	46.061	95.364	41.436	1.00	0.00	N
ATOM	3888	HN	TYR	411	45.674	95.712	42.313	1.00	0.00	H
ATOM	3889	CA	TYR	411	46.239	96.286	40.344	1.00	0.00	C
ATOM	3890	CB	TYR	411	44.924	96.918	39.866	1.00	0.00	C
ATOM	3891	CG	TYR	411	44.051	95.885	39.259	1.00	0.00	C
ATOM	3892	CD1	TYR	411	43.578	94.836	40.011	1.00	0.00	C
ATOM	3893	CD2	TYR	411	43.668	96.004	37.944	1.00	0.00	C
ATOM	3894	CE1	TYR	411	42.758	93.895	39.443	1.00	0.00	C
ATOM	3895	CE2	TYR	411	42.847	95.065	37.372	1.00	0.00	C
ATOM	3896	CZ	TYR	411	42.395	94.009	38.124	1.00	0.00	C
ATOM	3897	OH	TYR	411	41.551	93.039	37.549	1.00	0.00	O
ATOM	3898	HH	TYR	411	41.238	92.308	38.069	1.00	0.00	H
ATOM	3899	C	TYR	411	46.980	97.441	40.902	1.00	0.00	C
ATOM	3900	O	TYR	411	46.708	97.841	42.031	1.00	0.00	O
ATOM	3901	N	ASP	412	47.933	98.013	40.139	1.00	0.00	N
ATOM	3902	HN	ASP	412	48.191	97.635	39.227	1.00	0.00	H
ATOM	3903	CA	ASP	412	48.565	99.183	40.680	1.00	0.00	C
ATOM	3904	CB	ASP	412	49.866	99.599	39.973	1.00	0.00	C
ATOM	3905	CG	ASP	412	50.971	98.654	40.416	1.00	0.00	C
ATOM	3906	OD1	ASP	412	50.641	97.536	40.893	1.00	0.00	O
ATOM	3907	OD2	ASP	412	52.160	99.050	40.290	1.00	0.00	O
ATOM	3908	C	ASP	412	47.588	100.317	40.572	1.00	0.00	C
ATOM	3909	O	ASP	412	46.755	100.331	39.670	1.00	0.00	O
ATOM	3910	N	PRO	413	47.633	101.268	41.475	1.00	0.00	N
ATOM	3911	CA	PRO	413	46.732	102.394	41.498	1.00	0.00	C
ATOM	3912	CD	PRO	413	48.639	101.332	42.522	1.00	0.00	C
ATOM	3913	CB	PRO	413	47.054	103.148	42.789	1.00	0.00	C
ATOM	3914	CG	PRO	413	48.515	102.758	43.090	1.00	0.00	C
ATOM	3915	C	PRO	413	46.910	103.253	40.292	1.00	0.00	C
ATOM	3916	O	PRO	413	48.048	103.555	39.936	1.00	0.00	O
ATOM	3917	N	THR	414	45.799	103.676	39.658	1.00	0.00	N
ATOM	3918	HN	THR	414	44.876	103.401	39.993	1.00	0.00	H
ATOM	3919	CA	THR	414	45.934	104.517	38.508	1.00	0.00	C

ATOM	3920	CB	THR	414	44.638	104.783	37.802	1.00	0.00	C
ATOM	3921	OG1	THR	414	44.054	103.563	37.370	1.00	0.00	O
ATOM	3922	HG1	THR	414	43.233	103.732	36.923	1.00	0.00	H
ATOM	3923	CG2	THR	414	44.931	105.679	36.587	1.00	0.00	C
ATOM	3924	C	THR	414	46.505	105.834	38.928	1.00	0.00	C
ATOM	3925	O	THR	414	47.448	106.332	38.316	1.00	0.00	O
ATOM	3926	N	GLU	415	45.956	106.437	40.000	1.00	0.00	N
ATOM	3927	HN	GLU	415	45.189	105.991	40.503	1.00	0.00	H
ATOM	3928	CA	GLU	415	46.458	107.710	40.429	1.00	0.00	C
ATOM	3929	CB	GLU	415	45.668	108.902	39.869	1.00	0.00	C
ATOM	3930	CG	GLU	415	45.874	109.078	38.368	1.00	0.00	C
ATOM	3931	CD	GLU	415	44.825	110.044	37.847	1.00	0.00	C
ATOM	3932	OE1	GLU	415	44.034	110.566	38.679	1.00	0.00	O
ATOM	3933	OE2	GLU	415	44.795	110.271	36.608	1.00	0.00	O
ATOM	3934	C	GLU	415	46.349	107.759	41.910	1.00	0.00	C
ATOM	3935	O	GLU	415	45.620	106.980	42.520	1.00	0.00	O
ATOM	3936	N	GLY	416	47.090	108.690	42.532	1.00	0.00	N
ATOM	3937	HN	GLY	416	47.682	109.326	41.998	1.00	0.00	H
ATOM	3938	CA	GLY	416	47.033	108.772	43.957	1.00	0.00	C
ATOM	3939	C	GLY	416	47.864	107.650	44.474	1.00	0.00	C
ATOM	3940	O	GLY	416	48.818	107.230	43.822	1.00	0.00	O
ATOM	3941	N	MET	417	47.542	107.134	45.675	1.00	0.00	N
ATOM	3942	HN	MET	417	46.742	107.482	46.204	1.00	0.00	H
ATOM	3943	CA	MET	417	48.367	106.077	46.181	1.00	0.00	C
ATOM	3944	CB	MET	417	49.674	106.564	46.839	1.00	0.00	C
ATOM	3945	CG	MET	417	50.723	107.196	45.931	1.00	0.00	C
ATOM	3946	SD	MET	417	51.811	106.021	45.074	1.00	0.00	S
ATOM	3947	CE	MET	417	53.035	107.292	44.646	1.00	0.00	C
ATOM	3948	C	MET	417	47.677	105.435	47.329	1.00	0.00	C
ATOM	3949	O	MET	417	46.636	105.887	47.803	1.00	0.00	O
ATOM	3950	N	VAL	418	48.286	104.334	47.800	1.00	0.00	N
ATOM	3951	HN	VAL	418	49.095	103.968	47.298	1.00	0.00	H
ATOM	3952	CA	VAL	418	47.843	103.656	48.977	1.00	0.00	C
ATOM	3953	CB	VAL	418	47.082	102.395	48.689	1.00	0.00	C
ATOM	3954	CG1	VAL	418	47.877	101.564	47.673	1.00	0.00	C
ATOM	3955	CG2	VAL	418	46.844	101.664	50.021	1.00	0.00	C
ATOM	3956	C	VAL	418	49.066	103.317	49.753	1.00	0.00	C
ATOM	3957	O	VAL	418	50.131	103.063	49.188	1.00	0.00	O
ATOM	3958	N	SER	419	48.933	103.327	51.089	1.00	0.00	N
ATOM	3959	HN	SER	419	48.019	103.520	51.499	1.00	0.00	H
ATOM	3960	CA	SER	419	50.047	103.072	51.949	1.00	0.00	C
ATOM	3961	CB	SER	419	50.453	104.341	52.724	1.00	0.00	C
ATOM	3962	OG	SER	419	51.342	104.040	53.788	1.00	0.00	O
ATOM	3963	HG	SER	419	51.592	104.822	54.266	1.00	0.00	H
ATOM	3964	C	SER	419	49.632	102.064	52.968	1.00	0.00	C
ATOM	3965	O	SER	419	48.539	102.141	53.525	1.00	0.00	O
ATOM	3966	N	VAL	420	50.506	101.068	53.208	1.00	0.00	N
ATOM	3967	HN	VAL	420	51.339	100.992	52.625	1.00	0.00	H
ATOM	3968	CA	VAL	420	50.304	100.114	54.254	1.00	0.00	C
ATOM	3969	CB	VAL	420	50.740	98.723	53.899	1.00	0.00	C
ATOM	3970	CG1	VAL	420	50.641	97.838	55.153	1.00	0.00	C
ATOM	3971	CG2	VAL	420	49.888	98.228	52.718	1.00	0.00	C
ATOM	3972	C	VAL	420	51.208	100.596	55.309	1.00	0.00	C
ATOM	3973	O	VAL	420	52.257	101.125	54.949	1.00	0.00	O
ATOM	3974	N	ASP	421	50.848	100.434	56.606	1.00	0.00	N
ATOM	3975	HN	ASP	421	49.998	99.934	56.866	1.00	0.00	H
ATOM	3976	CA	ASP	421	51.719	100.999	57.594	1.00	0.00	C
ATOM	3977	CB	ASP	421	53.147	100.416	57.490	1.00	0.00	C
ATOM	3978	CG	ASP	421	54.016	100.882	58.651	1.00	0.00	C
ATOM	3979	OD1	ASP	421	53.449	101.354	59.672	1.00	0.00	O
ATOM	3980	OD2	ASP	421	55.265	100.783	58.517	1.00	0.00	O
ATOM	3981	C	ASP	421	51.742	102.452	57.215	1.00	0.00	C
ATOM	3982	O	ASP	421	50.688	103.064	57.048	1.00	0.00	O
ATOM	3983	N	GLY	422	52.955	103.032	57.190	1.00	0.00	N
ATOM	3984	HN	GLY	422	53.700	102.484	57.621	1.00	0.00	H
ATOM	3985	CA	GLY	422	53.371	104.300	56.654	1.00	0.00	C
ATOM	3986	C	GLY	422	53.752	104.295	55.182	1.00	0.00	C
ATOM	3987	O	GLY	422	53.767	105.353	54.554	1.00	0.00	O
ATOM	3988	N	GLN	423	54.191	103.135	54.631	1.00	0.00	N
ATOM	3989	HN	GLN	423	54.081	102.279	55.174	1.00	0.00	H
ATOM	3990	CA	GLN	423	54.806	103.030	53.323	1.00	0.00	C
ATOM	3991	CB	GLN	423	55.796	101.860	53.215	1.00	0.00	C
ATOM	3992	CG	GLN	423	56.998	101.936	54.154	1.00	0.00	C
ATOM	3993	CD	GLN	423	57.830	100.689	53.883	1.00	0.00	C

ATOM	3994	OE1	GLN	423	57.333	99.706	53.336	1.00	0.00	O
ATOM	3995	NE2	GLN	423	59.135	100.727	54.265	1.00	0.00	N
ATOM	3996	1HE2	GLN	423	59.547	101.542	54.719	1.00	0.00	H
ATOM	3997	2HE2	GLN	423	59.692	99.892	54.084	1.00	0.00	H
ATOM	3998	C	GLN	423	53.808	102.773	52.239	1.00	0.00	C
ATOM	3999	O	GLN	423	52.698	102.302	52.469	1.00	0.00	O
ATOM	4000	N	ASP	424	54.229	103.076	50.993	1.00	0.00	N
ATOM	4001	HN	ASP	424	55.168	103.457	50.879	1.00	0.00	H
ATOM	4002	CA	ASP	424	53.427	102.891	49.824	1.00	0.00	C
ATOM	4003	CB	ASP	424	53.948	103.708	48.627	1.00	0.00	C
ATOM	4004	CG	ASP	424	53.215	103.261	47.373	1.00	0.00	C
ATOM	4005	OD1	ASP	424	53.644	102.235	46.781	1.00	0.00	O
ATOM	4006	OD2	ASP	424	52.216	103.928	46.996	1.00	0.00	O
ATOM	4007	C	ASP	424	53.468	101.442	49.459	1.00	0.00	C
ATOM	4008	O	ASP	424	54.527	100.826	49.371	1.00	0.00	O
ATOM	4009	N	ILE	425	52.291	100.865	49.187	1.00	0.00	N
ATOM	4010	HN	ILE	425	51.452	101.443	49.147	1.00	0.00	H
ATOM	4011	CA	ILE	425	52.180	99.451	48.950	1.00	0.00	C
ATOM	4012	CB	ILE	425	50.767	99.035	48.689	1.00	0.00	C
ATOM	4013	CG1	ILE	425	50.670	97.516	48.500	1.00	0.00	C
ATOM	4014	CG2	ILE	425	50.255	99.837	47.486	1.00	0.00	C
ATOM	4015	CD1	ILE	425	49.225	97.029	48.455	1.00	0.00	C
ATOM	4016	C	ILE	425	52.997	98.989	47.772	1.00	0.00	C
ATOM	4017	O	ILE	425	53.733	98.009	47.883	1.00	0.00	O
ATOM	4018	N	ARG	426	52.949	99.712	46.639	1.00	0.00	N
ATOM	4019	HN	ARG	426	52.476	100.616	46.658	1.00	0.00	H
ATOM	4020	CA	ARG	426	53.534	99.269	45.403	1.00	0.00	C
ATOM	4021	CB	ARG	426	53.364	100.305	44.288	1.00	0.00	C
ATOM	4022	CG	ARG	426	51.894	100.634	44.038	1.00	0.00	C
ATOM	4023	CD	ARG	426	51.657	101.424	42.755	1.00	0.00	C
ATOM	4024	NE	ARG	426	52.381	102.717	42.862	1.00	0.00	N
ATOM	4025	HE	ARG	426	52.718	103.049	43.766	1.00	0.00	H
ATOM	4026	CZ	ARG	426	52.588	103.452	41.733	1.00	0.00	C
ATOM	4027	NH1	ARG	426	52.150	102.981	40.529	1.00	0.00	N
ATOM	4028	1HH1	ARG	426	52.305	103.531	39.684	1.00	0.00	H
ATOM	4029	2HH1	ARG	426	51.673	102.081	40.473	1.00	0.00	H
ATOM	4030	NH2	ARG	426	53.226	104.655	41.808	1.00	0.00	N
ATOM	4031	1HH2	ARG	426	53.381	105.205	40.963	1.00	0.00	H
ATOM	4032	2HH2	ARG	426	53.553	105.007	42.708	1.00	0.00	H
ATOM	4033	C	ARG	426	54.996	99.041	45.599	1.00	0.00	C
ATOM	4034	O	ARG	426	55.590	98.149	44.990	1.00	0.00	O
ATOM	4035	N	THR	427	55.605	99.849	46.476	1.00	0.00	N
ATOM	4036	HN	THR	427	55.041	100.531	46.983	1.00	0.00	H
ATOM	4037	CA	THR	427	57.012	99.798	46.734	1.00	0.00	C
ATOM	4038	CB	THR	427	57.363	100.690	47.886	1.00	0.00	C
ATOM	4039	OG1	THR	427	56.989	102.029	47.618	1.00	0.00	O
ATOM	4040	HG1	THR	427	57.211	102.594	48.348	1.00	0.00	H
ATOM	4041	CG2	THR	427	58.863	100.603	48.149	1.00	0.00	C
ATOM	4042	C	THR	427	57.409	98.427	47.186	1.00	0.00	C
ATOM	4043	O	THR	427	58.430	97.896	46.758	1.00	0.00	O
ATOM	4044	N	ILE	428	56.602	97.829	48.074	1.00	0.00	N
ATOM	4045	HN	ILE	428	55.728	98.299	48.311	1.00	0.00	H
ATOM	4046	CA	ILE	428	56.881	96.572	48.716	1.00	0.00	C
ATOM	4047	CB	ILE	428	55.849	96.209	49.737	1.00	0.00	C
ATOM	4048	CG1	ILE	428	55.512	97.385	50.651	1.00	0.00	C
ATOM	4049	CG2	ILE	428	56.395	95.016	50.528	1.00	0.00	C
ATOM	4050	CD1	ILE	428	54.216	97.158	51.427	1.00	0.00	C
ATOM	4051	C	ILE	428	56.776	95.444	47.725	1.00	0.00	C
ATOM	4052	O	ILE	428	56.049	95.524	46.736	1.00	0.00	O
ATOM	4053	N	ASN	429	57.535	94.355	47.983	1.00	0.00	N
ATOM	4054	HN	ASN	429	58.168	94.395	48.782	1.00	0.00	H
ATOM	4055	CA	ASN	429	57.511	93.143	47.207	1.00	0.00	C
ATOM	4056	CB	ASN	429	58.593	92.145	47.650	1.00	0.00	C
ATOM	4057	CG	ASN	429	58.345	90.817	46.954	1.00	0.00	C
ATOM	4058	OD1	ASN	429	58.213	89.783	47.607	1.00	0.00	O
ATOM	4059	ND2	ASN	429	58.267	90.838	45.597	1.00	0.00	N
ATOM	4060	1HD2	ASN	429	58.101	89.947	45.130	1.00	0.00	H
ATOM	4061	2HD2	ASN	429	58.376	91.695	45.056	1.00	0.00	H
ATOM	4062	C	ASN	429	56.182	92.464	47.371	1.00	0.00	C
ATOM	4063	O	ASN	429	55.555	92.529	48.427	1.00	0.00	O
ATOM	4064	N	VAL	430	55.721	91.806	46.283	1.00	0.00	N
ATOM	4065	HN	VAL	430	56.328	91.754	45.465	1.00	0.00	H
ATOM	4066	CA	VAL	430	54.426	91.173	46.204	1.00	0.00	C
ATOM	4067	CB	VAL	430	54.105	90.688	44.818	1.00	0.00	C

ATOM	4068	CG1	VAL	430	52.721	90.016	44.847	1.00	0.00	C
ATOM	4069	CG2	VAL	430	54.219	91.865	43.834	1.00	0.00	C
ATOM	4070	C	VAL	430	54.254	89.992	47.114	1.00	0.00	C
ATOM	4071	O	VAL	430	53.415	90.038	48.013	1.00	0.00	O
ATOM	4072	N	ARG	431	55.113	88.956	46.975	1.00	0.00	N
ATOM	4073	HN	ARG	431	55.909	89.076	46.348	1.00	0.00	H
ATOM	4074	CA	ARG	431	54.974	87.694	47.657	1.00	0.00	C
ATOM	4075	CB	ARG	431	56.245	86.850	47.478	1.00	0.00	C
ATOM	4076	CG	ARG	431	56.386	85.678	48.445	1.00	0.00	C
ATOM	4077	CD	ARG	431	57.744	84.988	48.318	1.00	0.00	C
ATOM	4078	NE	ARG	431	57.764	84.324	46.988	1.00	0.00	N
ATOM	4079	HE	ARG	431	58.122	84.813	46.167	1.00	0.00	H
ATOM	4080	CZ	ARG	431	57.294	83.048	46.889	1.00	0.00	C
ATOM	4081	NH1	ARG	431	56.875	82.401	48.014	1.00	0.00	N
ATOM	4082	1HH1	ARG	431	56.915	82.865	48.922	1.00	0.00	H
ATOM	4083	2HH1	ARG	431	56.523	81.446	47.940	1.00	0.00	H
ATOM	4084	NH2	ARG	431	57.240	82.428	45.675	1.00	0.00	N
ATOM	4085	1HH2	ARG	431	57.553	82.912	44.834	1.00	0.00	H
ATOM	4086	2HH2	ARG	431	56.888	81.473	45.601	1.00	0.00	H
ATOM	4087	C	ARG	431	54.855	88.017	49.117	1.00	0.00	C
ATOM	4088	O	ARG	431	54.049	87.426	49.839	1.00	0.00	O
ATOM	4089	N	PHE	432	55.660	88.997	49.566	1.00	0.00	N
ATOM	4090	HN	PHE	432	56.293	89.440	48.900	1.00	0.00	H
ATOM	4091	CA	PHE	432	55.681	89.457	50.928	1.00	0.00	C
ATOM	4092	CB	PHE	432	56.819	90.484	51.105	1.00	0.00	C
ATOM	4093	CG	PHE	432	57.083	90.789	52.540	1.00	0.00	C
ATOM	4094	CD1	PHE	432	56.417	91.802	53.190	1.00	0.00	C
ATOM	4095	CD2	PHE	432	58.022	90.060	53.234	1.00	0.00	C
ATOM	4096	CE1	PHE	432	56.680	92.078	54.512	1.00	0.00	C
ATOM	4097	CE2	PHE	432	58.289	90.330	54.555	1.00	0.00	C
ATOM	4098	CZ	PHE	432	57.617	91.341	55.198	1.00	0.00	C
ATOM	4099	C	PHE	432	54.374	90.115	51.296	1.00	0.00	C
ATOM	4100	O	PHE	432	53.752	89.769	52.303	1.00	0.00	O
ATOM	4101	N	LEU	433	53.904	91.062	50.456	1.00	0.00	N
ATOM	4102	HN	LEU	433	54.392	91.236	49.577	1.00	0.00	H
ATOM	4103	CA	LEU	433	52.728	91.833	50.773	1.00	0.00	C
ATOM	4104	CB	LEU	433	52.435	92.869	49.669	1.00	0.00	C
ATOM	4105	CG	LEU	433	51.234	93.797	49.924	1.00	0.00	C
ATOM	4106	CD1	LEU	433	49.892	93.066	49.824	1.00	0.00	C
ATOM	4107	CD2	LEU	433	51.395	94.542	51.251	1.00	0.00	C
ATOM	4108	C	LEU	433	51.578	90.898	50.896	1.00	0.00	C
ATOM	4109	O	LEU	433	50.882	90.863	51.911	1.00	0.00	O
ATOM	4110	N	ARG	434	51.434	90.025	49.894	1.00	0.00	N
ATOM	4111	HN	ARG	434	52.133	89.998	49.152	1.00	0.00	H
ATOM	4112	CA	ARG	434	50.325	89.130	49.839	1.00	0.00	C
ATOM	4113	CB	ARG	434	50.420	88.164	48.651	1.00	0.00	C
ATOM	4114	CG	ARG	434	50.360	88.889	47.311	1.00	0.00	C
ATOM	4115	CD	ARG	434	48.933	89.188	46.856	1.00	0.00	C
ATOM	4116	NE	ARG	434	49.022	90.137	45.713	1.00	0.00	N
ATOM	4117	HE	ARG	434	48.914	91.139	45.870	1.00	0.00	H
ATOM	4118	CZ	ARG	434	49.249	89.663	44.454	1.00	0.00	C
ATOM	4119	NH1	ARG	434	49.441	88.326	44.259	1.00	0.00	N
ATOM	4120	1HH1	ARG	434	49.417	87.682	45.050	1.00	0.00	H
ATOM	4121	2HH1	ARG	434	49.611	87.972	43.318	1.00	0.00	H
ATOM	4122	NH2	ARG	434	49.281	90.524	43.396	1.00	0.00	N
ATOM	4123	1HH2	ARG	434	49.137	91.523	43.542	1.00	0.00	H
ATOM	4124	2HH2	ARG	434	49.451	90.170	42.455	1.00	0.00	H
ATOM	4125	C	ARG	434	50.331	88.309	51.092	1.00	0.00	C
ATOM	4126	O	ARG	434	49.276	87.937	51.599	1.00	0.00	O
ATOM	4127	N	GLU	435	51.521	87.965	51.616	1.00	0.00	N
ATOM	4128	HN	GLU	435	52.386	88.255	51.160	1.00	0.00	H
ATOM	4129	CA	GLU	435	51.567	87.185	52.824	1.00	0.00	C
ATOM	4130	CB	GLU	435	53.005	86.780	53.187	1.00	0.00	C
ATOM	4131	CG	GLU	435	53.640	85.840	52.159	1.00	0.00	C
ATOM	4132	CD	GLU	435	55.074	85.566	52.588	1.00	0.00	C
ATOM	4133	OE1	GLU	435	55.262	84.812	53.580	1.00	0.00	O
ATOM	4134	OE2	GLU	435	55.999	86.112	51.932	1.00	0.00	O
ATOM	4135	C	GLU	435	51.014	87.986	53.980	1.00	0.00	C
ATOM	4136	O	GLU	435	50.209	87.502	54.774	1.00	0.00	O
ATOM	4137	N	ILE	436	51.410	89.266	54.058	1.00	0.00	N
ATOM	4138	HN	ILE	436	51.989	89.604	53.289	1.00	0.00	H
ATOM	4139	CA	ILE	436	51.116	90.219	55.097	1.00	0.00	C
ATOM	4140	CB	ILE	436	51.837	91.518	54.864	1.00	0.00	C
ATOM	4141	CG1	ILE	436	53.351	91.251	54.791	1.00	0.00	C

ATOM	4142	CG2	ILE	436	51.449	92.518	55.968	1.00	0.00	C
ATOM	4143	CD1	ILE	436	53.923	90.604	56.052	1.00	0.00	C
ATOM	4144	C	ILE	436	49.647	90.485	55.168	1.00	0.00	C
ATOM	4145	O	ILE	436	49.163	91.023	56.163	1.00	0.00	O
ATOM	4146	N	ILE	437	48.907	90.255	54.069	1.00	0.00	N
ATOM	4147	HN	ILE	437	49.320	89.876	53.217	1.00	0.00	H
ATOM	4148	CA	ILE	437	47.511	90.568	54.151	1.00	0.00	C
ATOM	4149	CB	ILE	437	47.063	91.523	53.079	1.00	0.00	C
ATOM	4150	CG1	ILE	437	47.751	92.895	53.233	1.00	0.00	C
ATOM	4151	CG2	ILE	437	45.530	91.611	53.144	1.00	0.00	C
ATOM	4152	CD1	ILE	437	49.236	92.915	52.874	1.00	0.00	C
ATOM	4153	C	ILE	437	46.661	89.330	54.058	1.00	0.00	C
ATOM	4154	O	ILE	437	46.465	88.768	52.984	1.00	0.00	O
ATOM	4155	N	GLY	438	46.082	88.904	55.199	1.00	0.00	N
ATOM	4156	HN	GLY	438	46.246	89.430	56.057	1.00	0.00	H
ATOM	4157	CA	GLY	438	45.243	87.739	55.255	1.00	0.00	C
ATOM	4158	C	GLY	438	43.975	88.085	54.551	1.00	0.00	C
ATOM	4159	O	GLY	438	43.463	89.190	54.719	1.00	0.00	O
ATOM	4160	N	VAL	439	43.426	87.146	53.747	1.00	0.00	N
ATOM	4161	HN	VAL	439	43.862	86.229	53.647	1.00	0.00	H
ATOM	4162	CA	VAL	439	42.216	87.462	53.035	1.00	0.00	C
ATOM	4163	CB	VAL	439	42.465	87.896	51.616	1.00	0.00	C
ATOM	4164	CG1	VAL	439	41.115	88.110	50.909	1.00	0.00	C
ATOM	4165	CG2	VAL	439	43.366	89.142	51.630	1.00	0.00	C
ATOM	4166	C	VAL	439	41.296	86.270	52.966	1.00	0.00	C
ATOM	4167	O	VAL	439	41.720	85.137	52.749	1.00	0.00	O
ATOM	4168	N	VAL	440	39.980	86.497	53.152	1.00	0.00	N
ATOM	4169	HN	VAL	440	39.648	87.436	53.373	1.00	0.00	H
ATOM	4170	CA	VAL	440	39.045	85.407	53.037	1.00	0.00	C
ATOM	4171	CB	VAL	440	38.567	84.901	54.362	1.00	0.00	C
ATOM	4172	CG1	VAL	440	37.490	83.841	54.105	1.00	0.00	C
ATOM	4173	CG2	VAL	440	39.778	84.379	55.155	1.00	0.00	C
ATOM	4174	C	VAL	440	37.854	85.884	52.266	1.00	0.00	C
ATOM	4175	O	VAL	440	37.079	86.702	52.755	1.00	0.00	O
ATOM	4176	N	SER	441	37.673	85.362	51.036	1.00	0.00	N
ATOM	4177	HN	SER	441	38.347	84.678	50.693	1.00	0.00	H
ATOM	4178	CA	SER	441	36.571	85.728	50.186	1.00	0.00	C
ATOM	4179	CB	SER	441	36.998	85.885	48.720	1.00	0.00	C
ATOM	4180	OG	SER	441	37.626	84.692	48.277	1.00	0.00	O
ATOM	4181	HG	SER	441	37.890	84.789	47.370	1.00	0.00	H
ATOM	4182	C	SER	441	35.500	84.669	50.277	1.00	0.00	C
ATOM	4183	O	SER	441	35.579	83.764	51.108	1.00	0.00	O
ATOM	4184	N	GLN	442	34.459	84.777	49.414	1.00	0.00	N
ATOM	4185	HN	GLN	442	34.524	85.450	48.650	1.00	0.00	H
ATOM	4186	CA	GLN	442	33.264	83.978	49.533	1.00	0.00	C
ATOM	4187	CB	GLN	442	32.244	84.288	48.429	1.00	0.00	C
ATOM	4188	CG	GLN	442	32.079	85.770	48.132	1.00	0.00	C
ATOM	4189	CD	GLN	442	33.124	86.106	47.074	1.00	0.00	C
ATOM	4190	OE1	GLN	442	34.107	85.388	46.895	1.00	0.00	O
ATOM	4191	NE2	GLN	442	32.895	87.223	46.335	1.00	0.00	N
ATOM	4192	1HE2	GLN	442	32.080	87.818	46.483	1.00	0.00	H
ATOM	4193	2HE2	GLN	442	33.594	87.448	45.627	1.00	0.00	H
ATOM	4194	C	GLN	442	33.448	82.505	49.385	1.00	0.00	C
ATOM	4195	O	GLN	442	33.536	81.794	50.383	1.00	0.00	O
ATOM	4196	N	GLU	443	33.643	82.017	48.141	1.00	0.00	N
ATOM	4197	HN	GLU	443	33.818	82.632	47.346	1.00	0.00	H
ATOM	4198	CA	GLU	443	33.592	80.595	47.992	1.00	0.00	C
ATOM	4199	CB	GLU	443	33.627	80.143	46.518	1.00	0.00	C
ATOM	4200	CG	GLU	443	33.233	78.679	46.300	1.00	0.00	C
ATOM	4201	CD	GLU	443	34.453	77.795	46.498	1.00	0.00	C
ATOM	4202	OE1	GLU	443	35.562	78.361	46.674	1.00	0.00	O
ATOM	4203	OE2	GLU	443	34.295	76.545	46.469	1.00	0.00	O
ATOM	4204	C	GLU	443	34.797	80.068	48.685	1.00	0.00	C
ATOM	4205	O	GLU	443	35.918	80.311	48.254	1.00	0.00	O
ATOM	4206	N	PRO	444	34.604	79.419	49.799	1.00	0.00	N
ATOM	4207	CA	PRO	444	35.682	78.857	50.548	1.00	0.00	C
ATOM	4208	CD	PRO	444	33.300	78.987	50.278	1.00	0.00	C
ATOM	4209	CB	PRO	444	35.048	78.360	51.843	1.00	0.00	C
ATOM	4210	CG	PRO	444	33.615	77.988	51.407	1.00	0.00	C
ATOM	4211	C	PRO	444	36.124	77.728	49.708	1.00	0.00	C
ATOM	4212	O	PRO	444	35.319	76.825	49.480	1.00	0.00	O
ATOM	4213	N	VAL	445	37.389	77.697	49.281	1.00	0.00	N
ATOM	4214	HN	VAL	445	38.078	78.411	49.517	1.00	0.00	H
ATOM	4215	CA	VAL	445	37.680	76.578	48.470	1.00	0.00	C

ATOM	4216	CB	VAL	445	38.190	76.941	47.107	1.00	0.00	C
ATOM	4217	CG1	VAL	445	39.487	77.754	47.264	1.00	0.00	C
ATOM	4218	CG2	VAL	445	38.359	75.646	46.294	1.00	0.00	C
ATOM	4219	C	VAL	445	38.711	75.762	49.135	1.00	0.00	C
ATOM	4220	O	VAL	445	39.709	76.275	49.640	1.00	0.00	O
ATOM	4221	N	LEU	446	38.466	74.445	49.149	1.00	0.00	N
ATOM	4222	HN	LEU	446	37.613	74.081	48.725	1.00	0.00	H
ATOM	4223	CA	LEU	446	39.393	73.555	49.754	1.00	0.00	C
ATOM	4224	CB	LEU	446	38.802	72.733	50.910	1.00	0.00	C
ATOM	4225	CG	LEU	446	38.377	73.608	52.102	1.00	0.00	C
ATOM	4226	CD1	LEU	446	37.872	72.756	53.276	1.00	0.00	C
ATOM	4227	CD2	LEU	446	39.503	74.572	52.502	1.00	0.00	C
ATOM	4228	C	LEU	446	39.794	72.617	48.678	1.00	0.00	C
ATOM	4229	O	LEU	446	38.961	72.007	48.007	1.00	0.00	O
ATOM	4230	N	PHE	447	41.111	72.497	48.495	1.00	0.00	N
ATOM	4231	HN	PHE	447	41.739	73.021	49.105	1.00	0.00	H
ATOM	4232	CA	PHE	447	41.673	71.672	47.488	1.00	0.00	C
ATOM	4233	CB	PHE	447	43.202	71.787	47.476	1.00	0.00	C
ATOM	4234	CG	PHE	447	43.523	73.240	47.607	1.00	0.00	C
ATOM	4235	CD1	PHE	447	43.596	73.800	48.863	1.00	0.00	C
ATOM	4236	CD2	PHE	447	43.747	74.044	46.514	1.00	0.00	C
ATOM	4237	CE1	PHE	447	43.891	75.131	49.033	1.00	0.00	C
ATOM	4238	CE2	PHE	447	44.043	75.378	46.678	1.00	0.00	C
ATOM	4239	CZ	PHE	447	44.116	75.926	47.936	1.00	0.00	C
ATOM	4240	C	PHE	447	41.346	70.270	47.887	1.00	0.00	C
ATOM	4241	O	PHE	447	41.099	69.996	49.058	1.00	0.00	O
ATOM	4242	N	ALA	448	41.295	69.327	46.931	1.00	0.00	N
ATOM	4243	HN	ALA	448	41.481	69.536	45.950	1.00	0.00	H
ATOM	4244	CA	ALA	448	40.962	68.008	47.383	1.00	0.00	C
ATOM	4245	CB	ALA	448	40.535	67.065	46.243	1.00	0.00	C
ATOM	4246	C	ALA	448	42.189	67.450	48.013	1.00	0.00	C
ATOM	4247	O	ALA	448	43.165	67.128	47.335	1.00	0.00	O
ATOM	4248	N	THR	449	42.163	67.339	49.355	1.00	0.00	N
ATOM	4249	HN	THR	449	41.333	67.613	49.881	1.00	0.00	H
ATOM	4250	CA	THR	449	43.313	66.833	50.029	1.00	0.00	C
ATOM	4251	CB	THR	449	44.487	67.757	49.874	1.00	0.00	C
ATOM	4252	OG1	THR	449	45.692	67.085	50.181	1.00	0.00	O
ATOM	4253	HG1	THR	449	45.807	66.334	49.610	1.00	0.00	H
ATOM	4254	CG2	THR	449	44.301	68.970	50.796	1.00	0.00	C
ATOM	4255	C	THR	449	42.957	66.686	51.477	1.00	0.00	C
ATOM	4256	O	THR	449	41.784	66.723	51.845	1.00	0.00	O
ATOM	4257	N	THR	450	43.970	66.495	52.343	1.00	0.00	N
ATOM	4258	HN	THR	450	44.928	66.459	51.996	1.00	0.00	H
ATOM	4259	CA	THR	450	43.720	66.341	53.748	1.00	0.00	C
ATOM	4260	CB	THR	450	44.903	65.799	54.494	1.00	0.00	C
ATOM	4261	OG1	THR	450	46.002	66.690	54.372	1.00	0.00	O
ATOM	4262	HG1	THR	450	46.751	66.347	54.844	1.00	0.00	H
ATOM	4263	CG2	THR	450	45.278	64.429	53.904	1.00	0.00	C
ATOM	4264	C	THR	450	43.431	67.700	54.301	1.00	0.00	C
ATOM	4265	O	THR	450	43.760	68.717	53.694	1.00	0.00	O
ATOM	4266	N	ILE	451	42.784	67.750	55.480	1.00	0.00	N
ATOM	4267	HN	ILE	451	42.502	66.886	55.943	1.00	0.00	H
ATOM	4268	CA	ILE	451	42.491	69.014	56.086	1.00	0.00	C
ATOM	4269	CB	ILE	451	41.796	68.870	57.413	1.00	0.00	C
ATOM	4270	CG1	ILE	451	40.416	68.208	57.243	1.00	0.00	C
ATOM	4271	CG2	ILE	451	41.733	70.253	58.080	1.00	0.00	C
ATOM	4272	CD1	ILE	451	39.432	69.020	56.401	1.00	0.00	C
ATOM	4273	C	ILE	451	43.815	69.650	56.350	1.00	0.00	C
ATOM	4274	O	ILE	451	44.048	70.810	56.013	1.00	0.00	O
ATOM	4275	N	ALA	452	44.753	68.857	56.897	1.00	0.00	N
ATOM	4276	HN	ALA	452	44.557	67.867	57.044	1.00	0.00	H
ATOM	4277	CA	ALA	452	46.025	69.394	57.275	1.00	0.00	C
ATOM	4278	CB	ALA	452	46.988	68.320	57.807	1.00	0.00	C
ATOM	4279	C	ALA	452	46.676	70.013	56.075	1.00	0.00	C
ATOM	4280	O	ALA	452	47.115	71.160	56.128	1.00	0.00	O
ATOM	4281	N	GLU	453	46.675	69.311	54.931	1.00	0.00	N
ATOM	4282	HN	GLU	453	46.182	68.419	54.888	1.00	0.00	H
ATOM	4283	CA	GLU	453	47.358	69.799	53.769	1.00	0.00	C
ATOM	4284	CB	GLU	453	47.195	68.893	52.539	1.00	0.00	C
ATOM	4285	CG	GLU	453	48.101	67.668	52.580	1.00	0.00	C
ATOM	4286	CD	GLU	453	49.510	68.183	52.344	1.00	0.00	C
ATOM	4287	OE1	GLU	453	49.703	68.933	51.349	1.00	0.00	O
ATOM	4288	OE2	GLU	453	50.407	67.846	53.161	1.00	0.00	O
ATOM	4289	C	GLU	453	46.813	71.136	53.386	1.00	0.00	C

ATOM	4290	O	GLU	453	47.564	72.001	52.942	1.00	0.00	O
ATOM	4291	N	ASN	454	45.494	71.347	53.523	1.00	0.00	N
ATOM	4292	HN	ASN	454	44.896	70.615	53.907	1.00	0.00	H
ATOM	4293	CA	ASN	454	44.927	72.606	53.127	1.00	0.00	C
ATOM	4294	CB	ASN	454	43.408	72.678	53.358	1.00	0.00	C
ATOM	4295	CG	ASN	454	42.719	71.764	52.356	1.00	0.00	C
ATOM	4296	OD1	ASN	454	42.823	71.954	51.145	1.00	0.00	O
ATOM	4297	ND2	ASN	454	41.995	70.738	52.876	1.00	0.00	N
ATOM	4298	1HD2	ASN	454	41.533	70.125	52.204	1.00	0.00	H
ATOM	4299	2HD2	ASN	454	41.909	70.580	53.880	1.00	0.00	H
ATOM	4300	C	ASN	454	45.532	73.692	53.954	1.00	0.00	C
ATOM	4301	O	ASN	454	45.999	74.706	53.440	1.00	0.00	O
ATOM	4302	N	ILE	455	45.580	73.486	55.274	1.00	0.00	N
ATOM	4303	HN	ILE	455	45.225	72.615	55.667	1.00	0.00	H
ATOM	4304	CA	ILE	455	46.129	74.487	56.134	1.00	0.00	C
ATOM	4305	CB	ILE	455	46.042	74.088	57.571	1.00	0.00	C
ATOM	4306	CG1	ILE	455	44.547	74.036	57.930	1.00	0.00	C
ATOM	4307	CG2	ILE	455	46.868	75.065	58.424	1.00	0.00	C
ATOM	4308	CD1	ILE	455	44.228	73.292	59.217	1.00	0.00	C
ATOM	4309	C	ILE	455	47.549	74.670	55.704	1.00	0.00	C
ATOM	4310	O	ILE	455	48.067	75.785	55.673	1.00	0.00	O
ATOM	4311	N	ARG	456	48.200	73.561	55.318	1.00	0.00	N
ATOM	4312	HN	ARG	456	47.707	72.668	55.342	1.00	0.00	H
ATOM	4313	CA	ARG	456	49.560	73.585	54.874	1.00	0.00	C
ATOM	4314	CB	ARG	456	50.118	72.201	54.515	1.00	0.00	C
ATOM	4315	CG	ARG	456	51.574	72.265	54.054	1.00	0.00	C
ATOM	4316	CD	ARG	456	52.169	70.902	53.704	1.00	0.00	C
ATOM	4317	NE	ARG	456	52.091	70.071	54.936	1.00	0.00	N
ATOM	4318	HE	ARG	456	51.588	70.418	55.753	1.00	0.00	H
ATOM	4319	CZ	ARG	456	52.692	68.845	54.976	1.00	0.00	C
ATOM	4320	NH1	ARG	456	53.398	68.395	53.900	1.00	0.00	N
ATOM	4321	1HH1	ARG	456	53.847	67.480	53.930	1.00	0.00	H
ATOM	4322	2HH1	ARG	456	53.484	68.973	53.064	1.00	0.00	H
ATOM	4323	NH2	ARG	456	52.577	68.072	56.094	1.00	0.00	N
ATOM	4324	1HH2	ARG	456	53.026	67.157	56.124	1.00	0.00	H
ATOM	4325	2HH2	ARG	456	52.049	68.409	56.899	1.00	0.00	H
ATOM	4326	C	ARG	456	49.651	74.432	53.641	1.00	0.00	C
ATOM	4327	O	ARG	456	50.672	75.064	53.408	1.00	0.00	O
ATOM	4328	N	TYR	457	48.609	74.465	52.796	1.00	0.00	N
ATOM	4329	HN	TYR	457	47.786	73.889	52.974	1.00	0.00	H
ATOM	4330	CA	TYR	457	48.660	75.316	51.640	1.00	0.00	C
ATOM	4331	CB	TYR	457	47.340	75.384	50.852	1.00	0.00	C
ATOM	4332	CG	TYR	457	47.213	74.233	49.917	1.00	0.00	C
ATOM	4333	CD1	TYR	457	47.720	74.372	48.651	1.00	0.00	C
ATOM	4334	CD2	TYR	457	46.605	73.047	50.256	1.00	0.00	C
ATOM	4335	CE1	TYR	457	47.635	73.365	47.724	1.00	0.00	C
ATOM	4336	CE2	TYR	457	46.514	72.029	49.330	1.00	0.00	C
ATOM	4337	CZ	TYR	457	47.028	72.185	48.063	1.00	0.00	C
ATOM	4338	OH	TYR	457	46.937	71.150	47.110	1.00	0.00	O
ATOM	4339	HH	TYR	457	46.516	70.332	47.345	1.00	0.00	H
ATOM	4340	C	TYR	457	48.879	76.695	52.153	1.00	0.00	C
ATOM	4341	O	TYR	457	49.606	77.489	51.556	1.00	0.00	O
ATOM	4342	N	GLY	458	48.258	76.995	53.304	1.00	0.00	N
ATOM	4343	HN	GLY	458	47.706	76.284	53.783	1.00	0.00	H
ATOM	4344	CA	GLY	458	48.366	78.305	53.862	1.00	0.00	C
ATOM	4345	C	GLY	458	49.820	78.582	54.061	1.00	0.00	C
ATOM	4346	O	GLY	458	50.294	79.678	53.764	1.00	0.00	O
ATOM	4347	N	ARG	459	50.575	77.599	54.582	1.00	0.00	N
ATOM	4348	HN	ARG	459	50.157	76.717	54.877	1.00	0.00	H
ATOM	4349	CA	ARG	459	51.984	77.828	54.710	1.00	0.00	C
ATOM	4350	CB	ARG	459	52.375	78.414	56.080	1.00	0.00	C
ATOM	4351	CG	ARG	459	53.822	78.899	56.176	1.00	0.00	C
ATOM	4352	CD	ARG	459	54.121	79.623	57.491	1.00	0.00	C
ATOM	4353	NE	ARG	459	53.957	78.629	58.589	1.00	0.00	N
ATOM	4354	HE	ARG	459	53.758	77.654	58.364	1.00	0.00	H
ATOM	4355	CZ	ARG	459	54.071	79.015	59.894	1.00	0.00	C
ATOM	4356	NH1	ARG	459	54.327	80.323	60.193	1.00	0.00	N
ATOM	4357	1HH1	ARG	459	54.412	80.611	61.168	1.00	0.00	H
ATOM	4358	2HH1	ARG	459	54.437	81.006	59.444	1.00	0.00	H
ATOM	4359	NH2	ARG	459	53.924	78.101	60.896	1.00	0.00	N
ATOM	4360	1HH2	ARG	459	54.009	78.389	61.871	1.00	0.00	H
ATOM	4361	2HH2	ARG	459	53.733	77.124	60.673	1.00	0.00	H
ATOM	4362	C	ARG	459	52.665	76.511	54.527	1.00	0.00	C
ATOM	4363	O	ARG	459	52.366	75.575	55.270	1.00	0.00	O

ATOM	4364	N	GLU	460	53.596	76.405	53.543	1.00	0.00	N
ATOM	4365	HN	GLU	460	53.905	77.238	53.042	1.00	0.00	H
ATOM	4366	CA	GLU	460	54.148	75.114	53.205	1.00	0.00	C
ATOM	4367	CB	GLU	460	55.323	75.171	52.210	1.00	0.00	C
ATOM	4368	CG	GLU	460	54.980	75.768	50.846	1.00	0.00	C
ATOM	4369	CD	GLU	460	55.143	77.278	50.961	1.00	0.00	C
ATOM	4370	OE1	GLU	460	55.443	77.756	52.088	1.00	0.00	O
ATOM	4371	OE2	GLU	460	54.971	77.973	49.924	1.00	0.00	O
ATOM	4372	C	GLU	460	54.737	74.498	54.453	1.00	0.00	C
ATOM	4373	O	GLU	460	54.228	73.491	54.945	1.00	0.00	O
ATOM	4374	N	ASN	461	55.769	75.125	55.062	1.00	0.00	N
ATOM	4375	HN	ASN	461	56.132	76.011	54.710	1.00	0.00	H
ATOM	4376	CA	ASN	461	56.334	74.496	56.224	1.00	0.00	C
ATOM	4377	CB	ASN	461	57.796	74.872	56.522	1.00	0.00	C
ATOM	4378	CG	ASN	461	58.314	73.906	57.585	1.00	0.00	C
ATOM	4379	OD1	ASN	461	57.794	72.804	57.748	1.00	0.00	O
ATOM	4380	ND2	ASN	461	59.366	74.331	58.335	1.00	0.00	N
ATOM	4381	1HD2	ASN	461	59.797	75.245	58.200	1.00	0.00	H
ATOM	4382	2HD2	ASN	461	59.712	73.686	59.045	1.00	0.00	H
ATOM	4383	C	ASN	461	55.532	74.907	57.418	1.00	0.00	C
ATOM	4384	O	ASN	461	55.207	76.081	57.586	1.00	0.00	O
ATOM	4385	N	VAL	462	55.174	73.935	58.281	1.00	0.00	N
ATOM	4386	HN	VAL	462	55.435	72.966	58.097	1.00	0.00	H
ATOM	4387	CA	VAL	462	54.425	74.268	59.459	1.00	0.00	C
ATOM	4388	CB	VAL	462	53.128	74.950	59.141	1.00	0.00	C
ATOM	4389	CG1	VAL	462	52.322	74.040	58.195	1.00	0.00	C
ATOM	4390	CG2	VAL	462	52.412	75.287	60.460	1.00	0.00	C
ATOM	4391	C	VAL	462	54.112	72.992	60.180	1.00	0.00	C
ATOM	4392	O	VAL	462	53.831	71.974	59.550	1.00	0.00	O
ATOM	4393	N	THR	463	54.121	73.029	61.529	1.00	0.00	N
ATOM	4394	HN	THR	463	54.292	73.917	62.001	1.00	0.00	H
ATOM	4395	CA	THR	463	53.895	71.848	62.318	1.00	0.00	C
ATOM	4396	CB	THR	463	54.596	71.890	63.649	1.00	0.00	C
ATOM	4397	OG1	THR	463	55.993	72.055	63.465	1.00	0.00	O
ATOM	4398	HG1	THR	463	56.164	72.864	62.997	1.00	0.00	H
ATOM	4399	CG2	THR	463	54.319	70.580	64.406	1.00	0.00	C
ATOM	4400	C	THR	463	52.432	71.706	62.600	1.00	0.00	C
ATOM	4401	O	THR	463	51.710	72.686	62.756	1.00	0.00	O
ATOM	4402	N	MET	464	51.983	70.449	62.741	1.00	0.00	N
ATOM	4403	HN	MET	464	52.666	69.694	62.680	1.00	0.00	H
ATOM	4404	CA	MET	464	50.616	70.089	62.971	1.00	0.00	C
ATOM	4405	CB	MET	464	50.429	68.567	63.074	1.00	0.00	C
ATOM	4406	CG	MET	464	49.051	68.068	62.632	1.00	0.00	C
ATOM	4407	SD	MET	464	47.611	68.690	63.554	1.00	0.00	S
ATOM	4408	CE	MET	464	47.882	67.702	65.053	1.00	0.00	C
ATOM	4409	C	MET	464	50.262	70.679	64.287	1.00	0.00	C
ATOM	4410	O	MET	464	49.099	70.936	64.571	1.00	0.00	O
ATOM	4411	N	ASP	465	51.254	70.849	65.169	1.00	0.00	N
ATOM	4412	HN	ASP	465	52.208	70.560	64.955	1.00	0.00	H
ATOM	4413	CA	ASP	465	50.926	71.451	66.422	1.00	0.00	C
ATOM	4414	CB	ASP	465	52.137	71.578	67.356	1.00	0.00	C
ATOM	4415	CG	ASP	465	51.624	71.878	68.755	1.00	0.00	C
ATOM	4416	OD1	ASP	465	50.635	72.647	68.881	1.00	0.00	O
ATOM	4417	OD2	ASP	465	52.214	71.325	69.721	1.00	0.00	O
ATOM	4418	C	ASP	465	50.428	72.831	66.116	1.00	0.00	C
ATOM	4419	O	ASP	465	49.472	73.309	66.724	1.00	0.00	O
ATOM	4420	N	GLU	466	51.075	73.507	65.147	1.00	0.00	N
ATOM	4421	HN	GLU	466	51.852	73.054	64.665	1.00	0.00	H
ATOM	4422	CA	GLU	466	50.709	74.842	64.770	1.00	0.00	C
ATOM	4423	CB	GLU	466	51.537	75.371	63.586	1.00	0.00	C
ATOM	4424	CG	GLU	466	53.042	75.123	63.681	1.00	0.00	C
ATOM	4425	CD	GLU	466	53.515	75.485	65.070	1.00	0.00	C
ATOM	4426	OE1	GLU	466	53.572	76.705	65.377	1.00	0.00	O
ATOM	4427	OE2	GLU	466	53.827	74.539	65.840	1.00	0.00	O
ATOM	4428	C	GLU	466	49.320	74.780	64.222	1.00	0.00	C
ATOM	4429	O	GLU	466	48.450	75.572	64.579	1.00	0.00	O
ATOM	4430	N	ILE	467	49.079	73.793	63.342	1.00	0.00	N
ATOM	4431	HN	ILE	467	49.822	73.125	63.134	1.00	0.00	H
ATOM	4432	CA	ILE	467	47.814	73.648	62.686	1.00	0.00	C
ATOM	4433	CB	ILE	467	47.820	72.489	61.744	1.00	0.00	C
ATOM	4434	CG1	ILE	467	48.865	72.759	60.650	1.00	0.00	C
ATOM	4435	CG2	ILE	467	46.389	72.276	61.223	1.00	0.00	C
ATOM	4436	CD1	ILE	467	49.327	71.509	59.913	1.00	0.00	C
ATOM	4437	C	ILE	467	46.766	73.403	63.720	1.00	0.00	C

ATOM	4438	O	ILE	467	45.690	73.996	63.669	1.00	0.00	O
ATOM	4439	N	GLU	468	47.070	72.544	64.710	1.00	0.00	N
ATOM	4440	HN	GLU	468	47.998	72.122	64.741	1.00	0.00	H
ATOM	4441	CA	GLU	468	46.113	72.213	65.720	1.00	0.00	C
ATOM	4442	CB	GLU	468	46.651	71.320	66.851	1.00	0.00	C
ATOM	4443	CG	GLU	468	45.563	70.951	67.866	1.00	0.00	C
ATOM	4444	CD	GLU	468	46.219	70.395	69.121	1.00	0.00	C
ATOM	4445	OE1	GLU	468	47.149	71.065	69.645	1.00	0.00	O
ATOM	4446	OE2	GLU	468	45.798	69.298	69.576	1.00	0.00	O
ATOM	4447	C	GLU	468	45.727	73.500	66.355	1.00	0.00	C
ATOM	4448	O	GLU	468	44.545	73.796	66.515	1.00	0.00	O
ATOM	4449	N	LYS	469	46.727	74.333	66.678	1.00	0.00	N
ATOM	4450	HN	LYS	469	47.697	74.069	66.503	1.00	0.00	H
ATOM	4451	CA	LYS	469	46.417	75.594	67.270	1.00	0.00	C
ATOM	4452	CB	LYS	469	47.667	76.439	67.556	1.00	0.00	C
ATOM	4453	CG	LYS	469	47.383	77.942	67.501	1.00	0.00	C
ATOM	4454	CD	LYS	469	46.302	78.463	68.447	1.00	0.00	C
ATOM	4455	CE	LYS	469	45.805	79.846	68.015	1.00	0.00	C
ATOM	4456	NZ	LYS	469	44.771	80.340	68.945	1.00	0.00	N
ATOM	4457	HZ1	LYS	469	44.440	81.261	68.657	1.00	0.00	H
ATOM	4458	HZ2	LYS	469	45.099	80.340	69.911	1.00	0.00	H
ATOM	4459	HZ3	LYS	469	44.003	79.676	69.045	1.00	0.00	H
ATOM	4460	C	LYS	469	45.559	76.367	66.325	1.00	0.00	C
ATOM	4461	O	LYS	469	44.522	76.905	66.711	1.00	0.00	O
ATOM	4462	N	ALA	470	45.938	76.387	65.037	1.00	0.00	N
ATOM	4463	HN	ALA	470	46.719	75.813	64.720	1.00	0.00	H
ATOM	4464	CA	ALA	470	45.235	77.222	64.115	1.00	0.00	C
ATOM	4465	CB	ALA	470	45.793	77.111	62.688	1.00	0.00	C
ATOM	4466	C	ALA	470	43.788	76.832	64.069	1.00	0.00	C
ATOM	4467	O	ALA	470	42.915	77.674	64.271	1.00	0.00	O
ATOM	4468	N	VAL	471	43.491	75.532	63.891	1.00	0.00	N
ATOM	4469	HN	VAL	471	44.239	74.839	63.866	1.00	0.00	H
ATOM	4470	CA	VAL	471	42.127	75.115	63.736	1.00	0.00	C
ATOM	4471	CB	VAL	471	41.985	73.634	63.508	1.00	0.00	C
ATOM	4472	CG1	VAL	471	42.562	73.285	62.126	1.00	0.00	C
ATOM	4473	CG2	VAL	471	42.689	72.888	64.654	1.00	0.00	C
ATOM	4474	C	VAL	471	41.343	75.485	64.952	1.00	0.00	C
ATOM	4475	O	VAL	471	40.310	76.143	64.846	1.00	0.00	O
ATOM	4476	N	LYS	472	41.858	75.148	66.147	1.00	0.00	N
ATOM	4477	HN	LYS	472	42.779	74.712	66.193	1.00	0.00	H
ATOM	4478	CA	LYS	472	41.129	75.393	67.358	1.00	0.00	C
ATOM	4479	CB	LYS	472	41.920	75.014	68.623	1.00	0.00	C
ATOM	4480	CG	LYS	472	42.112	73.506	68.825	1.00	0.00	C
ATOM	4481	CD	LYS	472	43.239	73.171	69.806	1.00	0.00	C
ATOM	4482	CE	LYS	472	43.460	71.674	70.038	1.00	0.00	C
ATOM	4483	NZ	LYS	472	42.583	71.189	71.125	1.00	0.00	N
ATOM	4484	HZ1	LYS	472	42.730	70.192	71.280	1.00	0.00	H
ATOM	4485	HZ2	LYS	472	41.602	71.406	70.948	1.00	0.00	H
ATOM	4486	HZ3	LYS	472	42.705	71.729	71.982	1.00	0.00	H
ATOM	4487	C	LYS	472	40.829	76.860	67.432	1.00	0.00	C
ATOM	4488	O	LYS	472	39.758	77.255	67.889	1.00	0.00	O
ATOM	4489	N	GLU	473	41.764	77.708	66.964	1.00	0.00	N
ATOM	4490	HN	GLU	473	42.622	77.331	66.562	1.00	0.00	H
ATOM	4491	CA	GLU	473	41.581	79.134	67.017	1.00	0.00	C
ATOM	4492	CB	GLU	473	42.810	79.865	66.444	1.00	0.00	C
ATOM	4493	CG	GLU	473	42.964	81.320	66.893	1.00	0.00	C
ATOM	4494	CD	GLU	473	41.892	82.157	66.228	1.00	0.00	C
ATOM	4495	OE1	GLU	473	41.942	82.319	64.979	1.00	0.00	O
ATOM	4496	OE2	GLU	473	41.001	82.647	66.969	1.00	0.00	O
ATOM	4497	C	GLU	473	40.384	79.494	66.173	1.00	0.00	C
ATOM	4498	O	GLU	473	39.543	80.309	66.549	1.00	0.00	O
ATOM	4499	N	ALA	474	40.322	78.867	64.990	1.00	0.00	N
ATOM	4500	HN	ALA	474	41.107	78.239	64.819	1.00	0.00	H
ATOM	4501	CA	ALA	474	39.368	78.903	63.913	1.00	0.00	C
ATOM	4502	CB	ALA	474	39.902	78.269	62.616	1.00	0.00	C
ATOM	4503	C	ALA	474	38.083	78.210	64.261	1.00	0.00	C
ATOM	4504	O	ALA	474	37.275	77.987	63.369	1.00	0.00	O
ATOM	4505	N	ASN	475	37.979	77.608	65.458	1.00	0.00	N
ATOM	4506	HN	ASN	475	38.774	77.673	66.093	1.00	0.00	H
ATOM	4507	CA	ASN	475	36.816	76.874	65.907	1.00	0.00	C
ATOM	4508	CB	ASN	475	35.507	77.685	66.140	1.00	0.00	C
ATOM	4509	CG	ASN	475	34.749	78.090	64.872	1.00	0.00	C
ATOM	4510	OD1	ASN	475	35.118	79.018	64.156	1.00	0.00	O
ATOM	4511	ND2	ASN	475	33.604	77.399	64.614	1.00	0.00	N

ATOM	4512	1HD2	ASN	475	33.298	76.629	65.208	1.00	0.00	H
ATOM	4513	2HD2	ASN	475	33.099	77.669	63.770	1.00	0.00	H
ATOM	4514	C	ASN	475	36.539	75.760	64.939	1.00	0.00	C
ATOM	4515	O	ASN	475	35.388	75.430	64.663	1.00	0.00	O
ATOM	4516	N	ALA	476	37.611	75.262	64.296	1.00	0.00	N
ATOM	4517	HN	ALA	476	38.493	75.751	64.451	1.00	0.00	H
ATOM	4518	CA	ALA	476	37.667	74.123	63.415	1.00	0.00	C
ATOM	4519	CB	ALA	476	38.844	74.203	62.429	1.00	0.00	C
ATOM	4520	C	ALA	476	37.778	72.818	64.148	1.00	0.00	C
ATOM	4521	O	ALA	476	37.330	71.776	63.675	1.00	0.00	O
ATOM	4522	N	TYR	477	38.406	72.854	65.334	1.00	0.00	N
ATOM	4523	HN	TYR	477	38.565	73.765	65.764	1.00	0.00	H
ATOM	4524	CA	TYR	477	38.868	71.689	66.035	1.00	0.00	C
ATOM	4525	CB	TYR	477	39.501	72.052	67.391	1.00	0.00	C
ATOM	4526	CG	TYR	477	40.120	70.821	67.956	1.00	0.00	C
ATOM	4527	CD1	TYR	477	41.262	70.307	67.386	1.00	0.00	C
ATOM	4528	CD2	TYR	477	39.584	70.195	69.057	1.00	0.00	C
ATOM	4529	CE1	TYR	477	41.853	69.175	67.894	1.00	0.00	C
ATOM	4530	CE2	TYR	477	40.172	69.062	69.570	1.00	0.00	C
ATOM	4531	CZ	TYR	477	41.307	68.550	68.987	1.00	0.00	C
ATOM	4532	OH	TYR	477	41.915	67.389	69.509	1.00	0.00	O
ATOM	4533	HH	TYR	477	42.699	67.035	69.106	1.00	0.00	H
ATOM	4534	C	TYR	477	37.788	70.675	66.276	1.00	0.00	C
ATOM	4535	O	TYR	477	38.063	69.479	66.217	1.00	0.00	O
ATOM	4536	N	ASP	478	36.552	71.087	66.607	1.00	0.00	N
ATOM	4537	HN	ASP	478	36.328	72.082	66.641	1.00	0.00	H
ATOM	4538	CA	ASP	478	35.550	70.100	66.913	1.00	0.00	C
ATOM	4539	CB	ASP	478	34.256	70.719	67.491	1.00	0.00	C
ATOM	4540	CG	ASP	478	33.672	71.741	66.520	1.00	0.00	C
ATOM	4541	OD1	ASP	478	34.393	72.160	65.577	1.00	0.00	O
ATOM	4542	OD2	ASP	478	32.494	72.137	66.719	1.00	0.00	O
ATOM	4543	C	ASP	478	35.181	69.200	65.757	1.00	0.00	C
ATOM	4544	O	ASP	478	35.319	67.983	65.857	1.00	0.00	O
ATOM	4545	N	PHE	479	34.748	69.755	64.609	1.00	0.00	N
ATOM	4546	HN	PHE	479	34.767	70.769	64.499	1.00	0.00	H
ATOM	4547	CA	PHE	479	34.258	68.930	63.536	1.00	0.00	C
ATOM	4548	CB	PHE	479	33.554	69.710	62.403	1.00	0.00	C
ATOM	4549	CG	PHE	479	34.479	70.646	61.701	1.00	0.00	C
ATOM	4550	CD1	PHE	479	35.310	70.198	60.699	1.00	0.00	C
ATOM	4551	CD2	PHE	479	34.491	71.983	62.027	1.00	0.00	C
ATOM	4552	CE1	PHE	479	36.150	71.070	60.047	1.00	0.00	C
ATOM	4553	CE2	PHE	479	35.329	72.860	61.379	1.00	0.00	C
ATOM	4554	CZ	PHE	479	36.161	72.403	60.387	1.00	0.00	C
ATOM	4555	C	PHE	479	35.358	68.110	62.956	1.00	0.00	C
ATOM	4556	O	PHE	479	35.161	66.950	62.594	1.00	0.00	O
ATOM	4557	N	ILE	480	36.558	68.693	62.856	1.00	0.00	N
ATOM	4558	HN	ILE	480	36.683	69.653	63.176	1.00	0.00	H
ATOM	4559	CA	ILE	480	37.666	67.980	62.304	1.00	0.00	C
ATOM	4560	CB	ILE	480	38.921	68.791	62.309	1.00	0.00	C
ATOM	4561	CG1	ILE	480	39.231	69.201	63.754	1.00	0.00	C
ATOM	4562	CG2	ILE	480	38.759	69.962	61.325	1.00	0.00	C
ATOM	4563	CD1	ILE	480	40.604	69.819	63.955	1.00	0.00	C
ATOM	4564	C	ILE	480	37.873	66.768	63.144	1.00	0.00	C
ATOM	4565	O	ILE	480	38.257	65.723	62.625	1.00	0.00	O
ATOM	4566	N	MET	481	37.706	66.892	64.474	1.00	0.00	N
ATOM	4567	HN	MET	481	37.470	67.800	64.875	1.00	0.00	H
ATOM	4568	CA	MET	481	37.860	65.749	65.329	1.00	0.00	C
ATOM	4569	CB	MET	481	37.948	66.104	66.818	1.00	0.00	C
ATOM	4570	CG	MET	481	39.287	66.745	67.176	1.00	0.00	C
ATOM	4571	SD	MET	481	40.724	65.724	66.727	1.00	0.00	S
ATOM	4572	CE	MET	481	40.184	64.250	67.640	1.00	0.00	C
ATOM	4573	C	MET	481	36.765	64.724	65.160	1.00	0.00	C
ATOM	4574	O	MET	481	37.054	63.533	65.073	1.00	0.00	O
ATOM	4575	N	LYS	482	35.480	65.142	65.112	1.00	0.00	N
ATOM	4576	HN	LYS	482	35.281	66.142	65.143	1.00	0.00	H
ATOM	4577	CA	LYS	482	34.382	64.207	65.018	1.00	0.00	C
ATOM	4578	CB	LYS	482	33.000	64.886	65.148	1.00	0.00	C
ATOM	4579	CG	LYS	482	31.791	63.939	65.102	1.00	0.00	C
ATOM	4580	CD	LYS	482	31.517	63.310	63.733	1.00	0.00	C
ATOM	4581	CE	LYS	482	30.406	62.255	63.740	1.00	0.00	C
ATOM	4582	NZ	LYS	482	30.937	60.960	64.222	1.00	0.00	N
ATOM	4583	HZ1	LYS	482	30.197	60.258	64.227	1.00	0.00	H
ATOM	4584	HZ2	LYS	482	31.386	61.047	65.134	1.00	0.00	H
ATOM	4585	HZ3	LYS	482	31.748	60.656	63.684	1.00	0.00	H

ATOM	4586	C	LYS	482	34.453	63.527	63.695	1.00	0.00	C
ATOM	4587	O	LYS	482	34.229	62.322	63.580	1.00	0.00	O
ATOM	4588	N	LEU	483	34.801	64.310	62.664	1.00	0.00	N
ATOM	4589	HN	LEU	483	34.994	65.293	62.855	1.00	0.00	H
ATOM	4590	CA	LEU	483	34.918	63.855	61.316	1.00	0.00	C
ATOM	4591	CB	LEU	483	35.613	64.946	60.465	1.00	0.00	C
ATOM	4592	CG	LEU	483	35.600	64.850	58.923	1.00	0.00	C
ATOM	4593	CD1	LEU	483	36.186	63.550	58.371	1.00	0.00	C
ATOM	4594	CD2	LEU	483	34.222	65.201	58.359	1.00	0.00	C
ATOM	4595	C	LEU	483	35.848	62.686	61.404	1.00	0.00	C
ATOM	4596	O	LEU	483	36.794	62.705	62.189	1.00	0.00	O
ATOM	4597	N	PRO	484	35.599	61.650	60.656	1.00	0.00	N
ATOM	4598	CA	PRO	484	36.406	60.465	60.689	1.00	0.00	C
ATOM	4599	CD	PRO	484	34.438	61.530	59.791	1.00	0.00	C
ATOM	4600	CB	PRO	484	35.680	59.454	59.799	1.00	0.00	C
ATOM	4601	CG	PRO	484	34.759	60.311	58.911	1.00	0.00	C
ATOM	4602	C	PRO	484	37.757	60.828	60.195	1.00	0.00	C
ATOM	4603	O	PRO	484	37.915	61.954	59.755	1.00	0.00	O
ATOM	4604	N	HIS	485	38.760	59.954	60.371	1.00	0.00	N
ATOM	4605	HN	HIS	485	38.572	59.124	60.934	1.00	0.00	H
ATOM	4606	CA	HIS	485	40.082	60.104	59.822	1.00	0.00	C
ATOM	4607	ND1	HIS	485	40.505	58.255	56.924	1.00	0.00	N
ATOM	4608	HD1	HIS	485	41.513	58.207	57.075	1.00	0.00	H
ATOM	4609	CG	HIS	485	39.642	59.198	57.441	1.00	0.00	C
ATOM	4610	CB	HIS	485	40.072	60.348	58.298	1.00	0.00	C
ATOM	4611	NE2	HIS	485	38.479	57.733	56.175	1.00	0.00	N
ATOM	4612	HE2	HIS	485	37.714	57.260	55.693	1.00	0.00	H
ATOM	4613	CD2	HIS	485	38.406	58.858	56.970	1.00	0.00	C
ATOM	4614	CE1	HIS	485	39.759	57.403	56.176	1.00	0.00	C
ATOM	4615	C	HIS	485	40.844	61.271	60.387	1.00	0.00	C
ATOM	4616	O	HIS	485	42.057	61.324	60.191	1.00	0.00	O
ATOM	4617	N	LYS	486	40.215	62.197	61.143	1.00	0.00	N
ATOM	4618	HN	LYS	486	39.209	62.136	61.301	1.00	0.00	H
ATOM	4619	CA	LYS	486	40.981	63.275	61.726	1.00	0.00	C
ATOM	4620	CB	LYS	486	42.223	62.794	62.496	1.00	0.00	C
ATOM	4621	CG	LYS	486	41.869	61.960	63.728	1.00	0.00	C
ATOM	4622	CD	LYS	486	43.060	61.209	64.324	1.00	0.00	C
ATOM	4623	CE	LYS	486	44.129	62.135	64.907	1.00	0.00	C
ATOM	4624	NZ	LYS	486	43.680	62.670	66.211	1.00	0.00	N
ATOM	4625	HZ1	LYS	486	44.393	63.287	66.600	1.00	0.00	H
ATOM	4626	HZ2	LYS	486	43.423	61.927	66.861	1.00	0.00	H
ATOM	4627	HZ3	LYS	486	42.772	63.130	66.143	1.00	0.00	H
ATOM	4628	C	LYS	486	41.418	64.301	60.706	1.00	0.00	C
ATOM	4629	O	LYS	486	40.703	64.649	59.773	1.00	0.00	O
ATOM	4630	N	PHE	487	42.616	64.873	60.924	1.00	0.00	N
ATOM	4631	HN	PHE	487	43.138	64.562	61.744	1.00	0.00	H
ATOM	4632	CA	PHE	487	43.228	65.888	60.100	1.00	0.00	C
ATOM	4633	CB	PHE	487	44.511	66.447	60.737	1.00	0.00	C
ATOM	4634	CG	PHE	487	44.103	67.176	61.971	1.00	0.00	C
ATOM	4635	CD1	PHE	487	43.714	68.493	61.892	1.00	0.00	C
ATOM	4636	CD2	PHE	487	44.102	66.549	63.198	1.00	0.00	C
ATOM	4637	CE1	PHE	487	43.334	69.178	63.021	1.00	0.00	C
ATOM	4638	CE2	PHE	487	43.723	67.230	64.332	1.00	0.00	C
ATOM	4639	CZ	PHE	487	43.339	68.546	64.242	1.00	0.00	C
ATOM	4640	C	PHE	487	43.594	65.297	58.778	1.00	0.00	C
ATOM	4641	O	PHE	487	43.654	65.978	57.754	1.00	0.00	O
ATOM	4642	N	ASP	488	43.907	63.999	58.815	1.00	0.00	N
ATOM	4643	HN	ASP	488	43.830	63.531	59.718	1.00	0.00	H
ATOM	4644	CA	ASP	488	44.339	63.205	57.711	1.00	0.00	C
ATOM	4645	CB	ASP	488	44.784	61.815	58.182	1.00	0.00	C
ATOM	4646	CG	ASP	488	45.778	61.276	57.180	1.00	0.00	C
ATOM	4647	OD1	ASP	488	45.405	61.112	55.990	1.00	0.00	O
ATOM	4648	OD2	ASP	488	46.938	61.022	57.603	1.00	0.00	O
ATOM	4649	C	ASP	488	43.202	63.049	56.746	1.00	0.00	C
ATOM	4650	O	ASP	488	43.418	62.645	55.604	1.00	0.00	O
ATOM	4651	N	THR	489	41.955	63.316	57.194	1.00	0.00	N
ATOM	4652	HN	THR	489	41.828	63.649	58.150	1.00	0.00	H
ATOM	4653	CA	THR	489	40.800	63.140	56.349	1.00	0.00	C
ATOM	4654	CB	THR	489	39.545	63.781	56.844	1.00	0.00	C
ATOM	4655	OG1	THR	489	39.279	63.315	58.137	1.00	0.00	O
ATOM	4656	HG1	THR	489	38.481	63.723	58.452	1.00	0.00	H
ATOM	4657	CG2	THR	489	38.358	63.417	55.934	1.00	0.00	C
ATOM	4658	C	THR	489	41.036	63.881	55.079	1.00	0.00	C
ATOM	4659	O	THR	489	41.771	64.865	55.057	1.00	0.00	O

ATOM	4660	N	LEU	490	40.396	63.405	53.990	1.00	0.00	N
ATOM	4661	HN	LEU	490	39.801	62.585	54.106	1.00	0.00	H
ATOM	4662	CA	LEU	490	40.500	63.980	52.680	1.00	0.00	C
ATOM	4663	CB	LEU	490	40.215	63.023	51.519	1.00	0.00	C
ATOM	4664	CG	LEU	490	41.134	61.822	51.341	1.00	0.00	C
ATOM	4665	CD1	LEU	490	41.088	60.876	52.553	1.00	0.00	C
ATOM	4666	CD2	LEU	490	40.756	61.127	50.027	1.00	0.00	C
ATOM	4667	C	LEU	490	39.391	64.949	52.481	1.00	0.00	C
ATOM	4668	O	LEU	490	38.720	65.380	53.420	1.00	0.00	O
ATOM	4669	N	VAL	491	39.228	65.376	51.206	1.00	0.00	N
ATOM	4670	HN	VAL	491	39.897	65.132	50.475	1.00	0.00	H
ATOM	4671	CA	VAL	491	38.086	66.179	50.926	1.00	0.00	C
ATOM	4672	CB	VAL	491	38.391	67.647	50.844	1.00	0.00	C
ATOM	4673	CG1	VAL	491	37.085	68.394	50.535	1.00	0.00	C
ATOM	4674	CG2	VAL	491	39.053	68.099	52.156	1.00	0.00	C
ATOM	4675	C	VAL	491	37.495	65.752	49.611	1.00	0.00	C
ATOM	4676	O	VAL	491	37.678	66.439	48.609	1.00	0.00	O
ATOM	4677	N	GLY	492	36.854	64.561	49.592	1.00	0.00	N
ATOM	4678	HN	GLY	492	37.020	63.955	50.395	1.00	0.00	H
ATOM	4679	CA	GLY	492	35.965	64.036	48.582	1.00	0.00	C
ATOM	4680	C	GLY	492	36.106	64.684	47.242	1.00	0.00	C
ATOM	4681	O	GLY	492	35.108	65.133	46.681	1.00	0.00	O
ATOM	4682	N	GLU	493	37.317	64.712	46.667	1.00	0.00	N
ATOM	4683	HN	GLU	493	38.120	64.303	47.144	1.00	0.00	H
ATOM	4684	CA	GLU	493	37.478	65.319	45.380	1.00	0.00	C
ATOM	4685	CB	GLU	493	36.903	64.482	44.232	1.00	0.00	C
ATOM	4686	CG	GLU	493	37.119	65.147	42.876	1.00	0.00	C
ATOM	4687	CD	GLU	493	36.312	64.382	41.845	1.00	0.00	C
ATOM	4688	OE1	GLU	493	35.423	63.590	42.255	1.00	0.00	O
ATOM	4689	OE2	GLU	493	36.570	64.589	40.630	1.00	0.00	O
ATOM	4690	C	GLU	493	36.869	66.686	45.278	1.00	0.00	C
ATOM	4691	O	GLU	493	35.731	66.845	44.839	1.00	0.00	O
ATOM	4692	N	ARG	494	37.609	67.701	45.763	1.00	0.00	N
ATOM	4693	HN	ARG	494	38.491	67.466	46.218	1.00	0.00	H
ATOM	4694	CA	ARG	494	37.250	69.088	45.688	1.00	0.00	C
ATOM	4695	CB	ARG	494	36.330	69.495	44.515	1.00	0.00	C
ATOM	4696	CG	ARG	494	36.440	70.979	44.124	1.00	0.00	C
ATOM	4697	CD	ARG	494	35.238	71.851	44.506	1.00	0.00	C
ATOM	4698	NE	ARG	494	35.508	73.240	44.021	1.00	0.00	N
ATOM	4699	HE	ARG	494	35.472	73.445	43.022	1.00	0.00	H
ATOM	4700	CZ	ARG	494	35.803	74.237	44.909	1.00	0.00	C
ATOM	4701	NH1	ARG	494	35.803	73.971	46.247	1.00	0.00	N
ATOM	4702	1HH1	ARG	494	36.023	74.715	46.909	1.00	0.00	H
ATOM	4703	2HH1	ARG	494	35.598	73.027	46.575	1.00	0.00	H
ATOM	4704	NH2	ARG	494	36.077	75.500	44.470	1.00	0.00	N
ATOM	4705	1HH2	ARG	494	36.297	76.244	45.132	1.00	0.00	H
ATOM	4706	2HH2	ARG	494	36.077	75.699	43.470	1.00	0.00	H
ATOM	4707	C	ARG	494	36.631	69.421	46.972	1.00	0.00	C
ATOM	4708	O	ARG	494	36.546	68.588	47.866	1.00	0.00	O
ATOM	4709	N	GLY	495	36.157	70.657	47.065	1.00	0.00	N
ATOM	4710	HN	GLY	495	36.209	71.247	46.235	1.00	0.00	H
ATOM	4711	CA	GLY	495	35.582	71.218	48.239	1.00	0.00	C
ATOM	4712	C	GLY	495	34.349	70.466	48.618	1.00	0.00	C
ATOM	4713	O	GLY	495	33.722	70.833	49.603	1.00	0.00	O
ATOM	4714	N	ALA	496	33.856	69.515	47.795	1.00	0.00	N
ATOM	4715	HN	ALA	496	34.346	69.204	46.956	1.00	0.00	H
ATOM	4716	CA	ALA	496	32.581	68.975	48.198	1.00	0.00	C
ATOM	4717	CB	ALA	496	31.672	68.687	46.993	1.00	0.00	C
ATOM	4718	C	ALA	496	32.638	67.714	49.016	1.00	0.00	C
ATOM	4719	O	ALA	496	32.515	66.615	48.477	1.00	0.00	O
ATOM	4720	N	GLN	497	33.011	67.794	50.308	1.00	0.00	N
ATOM	4721	HN	GLN	497	33.503	68.626	50.633	1.00	0.00	H
ATOM	4722	CA	GLN	497	32.733	66.737	51.238	1.00	0.00	C
ATOM	4723	CB	GLN	497	34.032	66.219	51.860	1.00	0.00	C
ATOM	4724	CG	GLN	497	33.921	64.841	52.498	1.00	0.00	C
ATOM	4725	CD	GLN	497	35.350	64.345	52.630	1.00	0.00	C
ATOM	4726	OE1	GLN	497	36.276	65.140	52.783	1.00	0.00	O
ATOM	4727	NE2	GLN	497	35.545	63.002	52.542	1.00	0.00	N
ATOM	4728	1HE2	GLN	497	36.505	62.669	52.631	1.00	0.00	H
ATOM	4729	2HE2	GLN	497	34.777	62.343	52.415	1.00	0.00	H
ATOM	4730	C	GLN	497	31.783	67.193	52.323	1.00	0.00	C
ATOM	4731	O	GLN	497	30.896	66.460	52.763	1.00	0.00	O
ATOM	4732	N	LEU	498	31.986	68.461	52.777	1.00	0.00	N
ATOM	4733	HN	LEU	498	32.594	69.074	52.234	1.00	0.00	H

ATOM	4734	CA	LEU	498	31.390	68.989	53.984	1.00	0.00	C
ATOM	4735	CB	LEU	498	32.421	69.427	55.040	1.00	0.00	C
ATOM	4736	CG	LEU	498	33.542	68.419	55.340	1.00	0.00	C
ATOM	4737	CD1	LEU	498	32.990	67.079	55.843	1.00	0.00	C
ATOM	4738	CD2	LEU	498	34.501	68.287	54.146	1.00	0.00	C
ATOM	4739	C	LEU	498	30.651	70.262	53.705	1.00	0.00	C
ATOM	4740	O	LEU	498	30.647	70.792	52.596	1.00	0.00	O
ATOM	4741	N	SER	499	30.017	70.803	54.767	1.00	0.00	N
ATOM	4742	HN	SER	499	30.092	70.345	55.675	1.00	0.00	H
ATOM	4743	CA	SER	499	29.242	72.001	54.654	1.00	0.00	C
ATOM	4744	CB	SER	499	28.408	72.307	55.905	1.00	0.00	C
ATOM	4745	OG	SER	499	29.271	72.606	56.991	1.00	0.00	O
ATOM	4746	HG	SER	499	28.755	72.795	57.766	1.00	0.00	H
ATOM	4747	C	SER	499	30.141	73.172	54.426	1.00	0.00	C
ATOM	4748	O	SER	499	31.233	73.275	54.986	1.00	0.00	O
ATOM	4749	N	GLY	500	29.627	74.135	53.641	1.00	0.00	N
ATOM	4750	HN	GLY	500	28.672	74.019	53.303	1.00	0.00	H
ATOM	4751	CA	GLY	500	30.341	75.314	53.251	1.00	0.00	C
ATOM	4752	C	GLY	500	30.736	76.006	54.503	1.00	0.00	C
ATOM	4753	O	GLY	500	31.745	76.711	54.549	1.00	0.00	O
ATOM	4754	N	GLY	501	29.917	75.845	55.554	1.00	0.00	N
ATOM	4755	HN	GLY	501	29.087	75.256	55.489	1.00	0.00	H
ATOM	4756	CA	GLY	501	30.245	76.525	56.765	1.00	0.00	C
ATOM	4757	C	GLY	501	31.605	76.078	57.214	1.00	0.00	C
ATOM	4758	O	GLY	501	32.479	76.909	57.440	1.00	0.00	O
ATOM	4759	N	GLN	502	31.845	74.754	57.297	1.00	0.00	N
ATOM	4760	HN	GLN	502	31.116	74.098	57.016	1.00	0.00	H
ATOM	4761	CA	GLN	502	33.102	74.242	57.772	1.00	0.00	C
ATOM	4762	CB	GLN	502	33.094	72.709	57.877	1.00	0.00	C
ATOM	4763	CG	GLN	502	32.076	72.197	58.895	1.00	0.00	C
ATOM	4764	CD	GLN	502	32.005	70.682	58.787	1.00	0.00	C
ATOM	4765	OE1	GLN	502	32.472	70.094	57.814	1.00	0.00	O
ATOM	4766	NE2	GLN	502	31.399	70.031	59.814	1.00	0.00	N
ATOM	4767	1HE2	GLN	502	31.011	70.519	60.622	1.00	0.00	H
ATOM	4768	2HE2	GLN	502	31.351	69.015	59.742	1.00	0.00	H
ATOM	4769	C	GLN	502	34.176	74.617	56.807	1.00	0.00	C
ATOM	4770	O	GLN	502	35.282	74.976	57.210	1.00	0.00	O
ATOM	4771	N	LYS	503	33.853	74.565	55.501	1.00	0.00	N
ATOM	4772	HN	LYS	503	32.900	74.316	55.234	1.00	0.00	H
ATOM	4773	CA	LYS	503	34.814	74.851	54.474	1.00	0.00	C
ATOM	4774	CB	LYS	503	34.139	74.990	53.097	1.00	0.00	C
ATOM	4775	CG	LYS	503	33.635	73.685	52.477	1.00	0.00	C
ATOM	4776	CD	LYS	503	34.751	72.811	51.915	1.00	0.00	C
ATOM	4777	CE	LYS	503	35.438	73.455	50.708	1.00	0.00	C
ATOM	4778	NZ	LYS	503	34.434	73.836	49.687	1.00	0.00	N
ATOM	4779	HZ1	LYS	503	34.892	74.265	48.883	1.00	0.00	H
ATOM	4780	HZ2	LYS	503	33.706	74.436	50.075	1.00	0.00	H
ATOM	4781	HZ3	LYS	503	33.849	73.046	49.415	1.00	0.00	H
ATOM	4782	C	LYS	503	35.384	76.194	54.778	1.00	0.00	C
ATOM	4783	O	LYS	503	36.585	76.356	54.993	1.00	0.00	O
ATOM	4784	N	GLN	504	34.483	77.165	54.950	1.00	0.00	N
ATOM	4785	HN	GLN	504	33.492	76.929	54.902	1.00	0.00	H
ATOM	4786	CA	GLN	504	34.855	78.522	55.199	1.00	0.00	C
ATOM	4787	CB	GLN	504	33.608	79.367	55.505	1.00	0.00	C
ATOM	4788	CG	GLN	504	33.913	80.776	56.000	1.00	0.00	C
ATOM	4789	CD	GLN	504	34.683	81.491	54.909	1.00	0.00	C
ATOM	4790	OE1	GLN	504	35.780	81.983	55.154	1.00	0.00	O
ATOM	4791	NE2	GLN	504	34.109	81.553	53.678	1.00	0.00	N
ATOM	4792	1HE2	GLN	504	33.197	81.144	53.474	1.00	0.00	H
ATOM	4793	2HE2	GLN	504	34.628	82.034	52.943	1.00	0.00	H
ATOM	4794	C	GLN	504	35.724	78.533	56.411	1.00	0.00	C
ATOM	4795	O	GLN	504	36.762	79.196	56.438	1.00	0.00	O
ATOM	4796	N	ARG	505	35.344	77.750	57.434	1.00	0.00	N
ATOM	4797	HN	ARG	505	34.526	77.148	57.344	1.00	0.00	H
ATOM	4798	CA	ARG	505	36.096	77.767	58.652	1.00	0.00	C
ATOM	4799	CB	ARG	505	35.515	76.849	59.743	1.00	0.00	C
ATOM	4800	CG	ARG	505	34.374	77.495	60.532	1.00	0.00	C
ATOM	4801	CD	ARG	505	33.786	76.618	61.642	1.00	0.00	C
ATOM	4802	NE	ARG	505	32.693	75.792	61.058	1.00	0.00	N
ATOM	4803	HE	ARG	505	32.574	75.743	60.046	1.00	0.00	H
ATOM	4804	CZ	ARG	505	31.849	75.100	61.881	1.00	0.00	C
ATOM	4805	NH1	ARG	505	32.050	75.104	63.231	1.00	0.00	N
ATOM	4806	1HH1	ARG	505	32.834	75.623	63.626	1.00	0.00	H
ATOM	4807	2HH1	ARG	505	31.420	74.588	63.845	1.00	0.00	H

ATOM	4808	NH2	ARG	505	30.800	74.406	61.352	1.00	0.00	N
ATOM	4809	1HH2	ARG	505	30.650	74.403	60.343	1.00	0.00	H
ATOM	4810	2HH2	ARG	505	30.170	73.890	61.966	1.00	0.00	H
ATOM	4811	C	ARG	505	37.495	77.330	58.390	1.00	0.00	C
ATOM	4812	O	ARG	505	38.441	78.015	58.779	1.00	0.00	O
ATOM	4813	N	ILE	506	37.660	76.223	57.649	1.00	0.00	N
ATOM	4814	HN	ILE	506	36.847	75.766	57.235	1.00	0.00	H
ATOM	4815	CA	ILE	506	38.969	75.676	57.433	1.00	0.00	C
ATOM	4816	CB	ILE	506	38.942	74.465	56.547	1.00	0.00	C
ATOM	4817	CG1	ILE	506	38.136	73.346	57.232	1.00	0.00	C
ATOM	4818	CG2	ILE	506	40.392	74.072	56.216	1.00	0.00	C
ATOM	4819	CD1	ILE	506	37.772	72.183	56.310	1.00	0.00	C
ATOM	4820	C	ILE	506	39.797	76.739	56.792	1.00	0.00	C
ATOM	4821	O	ILE	506	40.957	76.935	57.154	1.00	0.00	O
ATOM	4822	N	ALA	507	39.189	77.500	55.867	1.00	0.00	N
ATOM	4823	HN	ALA	507	38.202	77.357	55.655	1.00	0.00	H
ATOM	4824	CA	ALA	507	39.931	78.513	55.179	1.00	0.00	C
ATOM	4825	CB	ALA	507	39.071	79.299	54.174	1.00	0.00	C
ATOM	4826	C	ALA	507	40.461	79.489	56.176	1.00	0.00	C
ATOM	4827	O	ALA	507	41.643	79.824	56.157	1.00	0.00	O
ATOM	4828	N	ILE	508	39.616	79.899	57.134	1.00	0.00	N
ATOM	4829	HN	ILE	508	38.679	79.497	57.173	1.00	0.00	H
ATOM	4830	CA	ILE	508	39.991	80.886	58.106	1.00	0.00	C
ATOM	4831	CB	ILE	508	38.960	81.029	59.190	1.00	0.00	C
ATOM	4832	CG1	ILE	508	37.598	81.468	58.618	1.00	0.00	C
ATOM	4833	CG2	ILE	508	39.532	81.964	60.269	1.00	0.00	C
ATOM	4834	CD1	ILE	508	37.603	82.838	57.947	1.00	0.00	C
ATOM	4835	C	ILE	508	41.216	80.380	58.781	1.00	0.00	C
ATOM	4836	O	ILE	508	42.142	81.137	59.065	1.00	0.00	O
ATOM	4837	N	ALA	509	41.248	79.067	59.047	1.00	0.00	N
ATOM	4838	HN	ALA	509	40.452	78.475	58.808	1.00	0.00	H
ATOM	4839	CA	ALA	509	42.403	78.502	59.667	1.00	0.00	C
ATOM	4840	CB	ALA	509	42.263	76.989	59.902	1.00	0.00	C
ATOM	4841	C	ALA	509	43.584	78.698	58.763	1.00	0.00	C
ATOM	4842	O	ALA	509	44.641	79.138	59.216	1.00	0.00	O
ATOM	4843	N	ARG	510	43.433	78.427	57.447	1.00	0.00	N
ATOM	4844	HN	ARG	510	42.522	78.177	57.062	1.00	0.00	H
ATOM	4845	CA	ARG	510	44.602	78.503	56.606	1.00	0.00	C
ATOM	4846	CB	ARG	510	44.396	78.147	55.119	1.00	0.00	C
ATOM	4847	CG	ARG	510	43.534	79.126	54.325	1.00	0.00	C
ATOM	4848	CD	ARG	510	43.574	78.901	52.817	1.00	0.00	C
ATOM	4849	NE	ARG	510	43.094	77.516	52.574	1.00	0.00	N
ATOM	4850	HE	ARG	510	43.455	76.743	53.133	1.00	0.00	H
ATOM	4851	CZ	ARG	510	42.168	77.285	51.599	1.00	0.00	C
ATOM	4852	NH1	ARG	510	41.698	78.323	50.848	1.00	0.00	N
ATOM	4853	1HH1	ARG	510	42.041	79.270	51.012	1.00	0.00	H
ATOM	4854	2HH1	ARG	510	41.006	78.150	50.119	1.00	0.00	H
ATOM	4855	NH2	ARG	510	41.710	76.020	51.380	1.00	0.00	N
ATOM	4856	1HH2	ARG	510	42.061	75.244	51.941	1.00	0.00	H
ATOM	4857	2HH2	ARG	510	41.018	75.847	50.651	1.00	0.00	H
ATOM	4858	C	ARG	510	45.143	79.894	56.643	1.00	0.00	C
ATOM	4859	O	ARG	510	46.321	80.107	56.922	1.00	0.00	O
ATOM	4860	N	ALA	511	44.264	80.885	56.445	1.00	0.00	N
ATOM	4861	HN	ALA	511	43.285	80.657	56.274	1.00	0.00	H
ATOM	4862	CA	ALA	511	44.669	82.258	56.468	1.00	0.00	C
ATOM	4863	CB	ALA	511	43.500	83.231	56.245	1.00	0.00	C
ATOM	4864	C	ALA	511	45.216	82.525	57.828	1.00	0.00	C
ATOM	4865	O	ALA	511	46.132	83.327	57.995	1.00	0.00	O
ATOM	4866	N	LEU	512	44.649	81.847	58.840	1.00	0.00	N
ATOM	4867	HN	LEU	512	43.936	81.147	58.634	1.00	0.00	H
ATOM	4868	CA	LEU	512	45.024	82.085	60.200	1.00	0.00	C
ATOM	4869	CB	LEU	512	44.202	81.251	61.201	1.00	0.00	C
ATOM	4870	CG	LEU	512	44.323	81.714	62.671	1.00	0.00	C
ATOM	4871	CD1	LEU	512	45.716	81.466	63.267	1.00	0.00	C
ATOM	4872	CD2	LEU	512	43.880	83.180	62.812	1.00	0.00	C
ATOM	4873	C	LEU	512	46.480	81.762	60.384	1.00	0.00	C
ATOM	4874	O	LEU	512	47.166	82.454	61.134	1.00	0.00	O
ATOM	4875	N	VAL	513	46.984	80.689	59.735	1.00	0.00	N
ATOM	4876	HN	VAL	513	46.358	80.130	59.155	1.00	0.00	H
ATOM	4877	CA	VAL	513	48.371	80.300	59.828	1.00	0.00	C
ATOM	4878	CB	VAL	513	48.663	78.986	59.166	1.00	0.00	C
ATOM	4879	CG1	VAL	513	50.165	78.684	59.311	1.00	0.00	C
ATOM	4880	CG2	VAL	513	47.747	77.919	59.787	1.00	0.00	C
ATOM	4881	C	VAL	513	49.218	81.330	59.150	1.00	0.00	C

ATOM	4882	O	VAL	513	50.348	81.592	59.560	1.00	0.00	O
ATOM	4883	N	ARG	514	48.685	81.929	58.072	1.00	0.00	N
ATOM	4884	HN	ARG	514	47.756	81.645	57.762	1.00	0.00	H
ATOM	4885	CA	ARG	514	49.373	82.954	57.339	1.00	0.00	C
ATOM	4886	CB	ARG	514	48.512	83.525	56.199	1.00	0.00	C
ATOM	4887	CG	ARG	514	48.181	82.501	55.108	1.00	0.00	C
ATOM	4888	CD	ARG	514	48.817	82.802	53.748	1.00	0.00	C
ATOM	4889	NE	ARG	514	50.261	82.443	53.826	1.00	0.00	N
ATOM	4890	HE	ARG	514	50.587	81.785	54.534	1.00	0.00	H
ATOM	4891	CZ	ARG	514	51.145	82.998	52.947	1.00	0.00	C
ATOM	4892	NH1	ARG	514	50.700	83.881	52.008	1.00	0.00	N
ATOM	4893	1HH1	ARG	514	49.709	84.120	51.962	1.00	0.00	H
ATOM	4894	2HH1	ARG	514	51.361	84.296	51.351	1.00	0.00	H
ATOM	4895	NH2	ARG	514	52.471	82.678	53.009	1.00	0.00	N
ATOM	4896	1HH2	ARG	514	52.804	82.018	53.711	1.00	0.00	H
ATOM	4897	2HH2	ARG	514	53.132	83.093	52.352	1.00	0.00	H
ATOM	4898	C	ARG	514	49.662	84.074	58.310	1.00	0.00	C
ATOM	4899	O	ARG	514	50.698	84.731	58.220	1.00	0.00	O
ATOM	4900	N	ASN	515	48.729	84.310	59.259	1.00	0.00	N
ATOM	4901	HN	ASN	515	47.886	83.737	59.215	1.00	0.00	H
ATOM	4902	CA	ASN	515	48.788	85.284	60.333	1.00	0.00	C
ATOM	4903	CB	ASN	515	49.521	84.812	61.612	1.00	0.00	C
ATOM	4904	CG	ASN	515	51.017	84.643	61.375	1.00	0.00	C
ATOM	4905	OD1	ASN	515	51.451	83.855	60.538	1.00	0.00	O
ATOM	4906	ND2	ASN	515	51.828	85.421	62.140	1.00	0.00	N
ATOM	4907	1HD2	ASN	515	51.468	86.075	62.835	1.00	0.00	H
ATOM	4908	2HD2	ASN	515	52.829	85.308	61.981	1.00	0.00	H
ATOM	4909	C	ASN	515	49.297	86.644	59.923	1.00	0.00	C
ATOM	4910	O	ASN	515	50.436	87.032	60.180	1.00	0.00	O
ATOM	4911	N	PRO	516	48.426	87.362	59.271	1.00	0.00	N
ATOM	4912	CA	PRO	516	48.646	88.693	58.748	1.00	0.00	C
ATOM	4913	CD	PRO	516	47.229	86.747	58.724	1.00	0.00	C
ATOM	4914	CB	PRO	516	47.655	88.843	57.616	1.00	0.00	C
ATOM	4915	CG	PRO	516	46.512	87.889	57.995	1.00	0.00	C
ATOM	4916	C	PRO	516	48.433	89.812	59.730	1.00	0.00	C
ATOM	4917	O	PRO	516	48.201	89.572	60.911	1.00	0.00	O
ATOM	4918	N	LYS	517	48.708	91.042	59.263	1.00	0.00	N
ATOM	4919	HN	LYS	517	49.149	91.066	58.344	1.00	0.00	H
ATOM	4920	CA	LYS	517	48.476	92.331	59.860	1.00	0.00	C
ATOM	4921	CB	LYS	517	49.570	93.328	59.439	1.00	0.00	C
ATOM	4922	CG	LYS	517	50.989	92.824	59.733	1.00	0.00	C
ATOM	4923	CD	LYS	517	51.426	91.653	58.843	1.00	0.00	C
ATOM	4924	CE	LYS	517	52.818	91.100	59.158	1.00	0.00	C
ATOM	4925	NZ	LYS	517	52.761	90.203	60.335	1.00	0.00	N
ATOM	4926	HZ1	LYS	517	53.689	89.834	60.545	1.00	0.00	H
ATOM	4927	HZ2	LYS	517	52.075	89.458	60.213	1.00	0.00	H
ATOM	4928	HZ3	LYS	517	52.343	90.663	61.144	1.00	0.00	H
ATOM	4929	C	LYS	517	47.160	92.909	59.434	1.00	0.00	C
ATOM	4930	O	LYS	517	46.588	93.762	60.114	1.00	0.00	O
ATOM	4931	N	ILE	518	46.709	92.537	58.220	1.00	0.00	N
ATOM	4932	HN	ILE	518	47.230	91.842	57.685	1.00	0.00	H
ATOM	4933	CA	ILE	518	45.514	93.097	57.667	1.00	0.00	C
ATOM	4934	CB	ILE	518	45.775	93.954	56.467	1.00	0.00	C
ATOM	4935	CG1	ILE	518	46.763	95.058	56.862	1.00	0.00	C
ATOM	4936	CG2	ILE	518	44.438	94.508	55.945	1.00	0.00	C
ATOM	4937	CD1	ILE	518	47.324	95.829	55.674	1.00	0.00	C
ATOM	4938	C	ILE	518	44.660	91.952	57.248	1.00	0.00	C
ATOM	4939	O	ILE	518	45.167	90.911	56.831	1.00	0.00	O
ATOM	4940	N	LEU	519	43.329	92.102	57.381	1.00	0.00	N
ATOM	4941	HN	LEU	519	42.933	92.978	57.724	1.00	0.00	H
ATOM	4942	CA	LEU	519	42.483	91.003	57.030	1.00	0.00	C
ATOM	4943	CB	LEU	519	41.917	90.302	58.283	1.00	0.00	C
ATOM	4944	CG	LEU	519	41.220	88.944	58.063	1.00	0.00	C
ATOM	4945	CD1	LEU	519	40.725	88.368	59.399	1.00	0.00	C
ATOM	4946	CD2	LEU	519	40.098	89.019	57.020	1.00	0.00	C
ATOM	4947	C	LEU	519	41.357	91.548	56.205	1.00	0.00	C
ATOM	4948	O	LEU	519	40.660	92.472	56.625	1.00	0.00	O
ATOM	4949	N	LEU	520	41.154	90.987	54.996	1.00	0.00	N
ATOM	4950	HN	LEU	520	41.770	90.239	54.677	1.00	0.00	H
ATOM	4951	CA	LEU	520	40.081	91.430	54.154	1.00	0.00	C
ATOM	4952	CB	LEU	520	40.529	91.740	52.713	1.00	0.00	C
ATOM	4953	CG	LEU	520	41.450	92.968	52.583	1.00	0.00	C
ATOM	4954	CD1	LEU	520	42.698	92.830	53.468	1.00	0.00	C
ATOM	4955	CD2	LEU	520	41.813	93.234	51.111	1.00	0.00	C

ATOM	4956	C	LEU	520	39.076	90.327	54.072	1.00	0.00	C
ATOM	4957	O	LEU	520	39.415	89.167	53.846	1.00	0.00	O
ATOM	4958	N	LEU	521	37.790	90.657	54.277	1.00	0.00	N
ATOM	4959	HN	LEU	521	37.528	91.615	54.511	1.00	0.00	H
ATOM	4960	CA	LEU	521	36.794	89.633	54.159	1.00	0.00	C
ATOM	4961	CB	LEU	521	35.881	89.519	55.389	1.00	0.00	C
ATOM	4962	CG	LEU	521	36.626	89.223	56.702	1.00	0.00	C
ATOM	4963	CD1	LEU	521	37.503	90.412	57.129	1.00	0.00	C
ATOM	4964	CD2	LEU	521	35.642	88.779	57.796	1.00	0.00	C
ATOM	4965	C	LEU	521	35.920	90.047	53.014	1.00	0.00	C
ATOM	4966	O	LEU	521	35.194	91.035	53.110	1.00	0.00	O
ATOM	4967	N	ASP	522	35.962	89.303	51.891	1.00	0.00	N
ATOM	4968	HN	ASP	522	36.570	88.485	51.843	1.00	0.00	H
ATOM	4969	CA	ASP	522	35.151	89.663	50.764	1.00	0.00	C
ATOM	4970	CB	ASP	522	35.841	89.334	49.422	1.00	0.00	C
ATOM	4971	CG	ASP	522	35.176	90.115	48.293	1.00	0.00	C
ATOM	4972	OD1	ASP	522	34.154	90.796	48.570	1.00	0.00	O
ATOM	4973	OD2	ASP	522	35.686	90.045	47.143	1.00	0.00	O
ATOM	4974	C	ASP	522	33.893	88.861	50.872	1.00	0.00	C
ATOM	4975	O	ASP	522	33.754	87.805	50.258	1.00	0.00	O
ATOM	4976	N	GLU	523	32.953	89.361	51.695	1.00	0.00	N
ATOM	4977	HN	GLU	523	33.177	90.216	52.204	1.00	0.00	H
ATOM	4978	CA	GLU	523	31.656	88.779	51.910	1.00	0.00	C
ATOM	4979	CB	GLU	523	30.724	88.976	50.693	1.00	0.00	C
ATOM	4980	CG	GLU	523	31.248	88.419	49.368	1.00	0.00	C
ATOM	4981	CD	GLU	523	30.712	89.284	48.236	1.00	0.00	C
ATOM	4982	OE1	GLU	523	30.505	90.501	48.484	1.00	0.00	O
ATOM	4983	OE2	GLU	523	30.519	88.753	47.110	1.00	0.00	O
ATOM	4984	C	GLU	523	31.773	87.341	52.333	1.00	0.00	C
ATOM	4985	O	GLU	523	30.842	86.559	52.137	1.00	0.00	O
ATOM	4986	N	ALA	524	32.846	87.014	53.093	1.00	0.00	N
ATOM	4987	HN	ALA	524	33.422	87.755	53.492	1.00	0.00	H
ATOM	4988	CA	ALA	524	33.186	85.642	53.347	1.00	0.00	C
ATOM	4989	CB	ALA	524	34.346	85.500	54.347	1.00	0.00	C
ATOM	4990	C	ALA	524	32.028	84.850	53.898	1.00	0.00	C
ATOM	4991	O	ALA	524	31.550	83.949	53.221	1.00	0.00	O
ATOM	4992	N	THR	525	31.416	85.241	55.025	1.00	0.00	N
ATOM	4993	HN	THR	525	31.676	86.127	55.458	1.00	0.00	H
ATOM	4994	CA	THR	525	30.396	84.425	55.633	1.00	0.00	C
ATOM	4995	CB	THR	525	29.814	85.087	56.827	1.00	0.00	C
ATOM	4996	OG1	THR	525	30.813	85.269	57.817	1.00	0.00	O
ATOM	4997	HG1	THR	525	31.517	85.819	57.493	1.00	0.00	H
ATOM	4998	CG2	THR	525	28.683	84.204	57.347	1.00	0.00	C
ATOM	4999	C	THR	525	29.252	84.169	54.693	1.00	0.00	C
ATOM	5000	O	THR	525	28.625	83.113	54.764	1.00	0.00	O
ATOM	5001	N	SER	526	28.959	85.118	53.787	1.00	0.00	N
ATOM	5002	HN	SER	526	29.591	85.915	53.713	1.00	0.00	H
ATOM	5003	CA	SER	526	27.812	85.087	52.912	1.00	0.00	C
ATOM	5004	CB	SER	526	27.822	86.214	51.864	1.00	0.00	C
ATOM	5005	OG	SER	526	27.735	87.474	52.513	1.00	0.00	O
ATOM	5006	HG	SER	526	27.741	88.170	51.866	1.00	0.00	H
ATOM	5007	C	SER	526	27.631	83.791	52.191	1.00	0.00	C
ATOM	5008	O	SER	526	28.455	82.882	52.249	1.00	0.00	O
ATOM	5009	N	ALA	527	26.460	83.682	51.523	1.00	0.00	N
ATOM	5010	HN	ALA	527	25.807	84.465	51.562	1.00	0.00	H
ATOM	5011	CA	ALA	527	26.088	82.525	50.764	1.00	0.00	C
ATOM	5012	CB	ALA	527	26.953	82.312	49.511	1.00	0.00	C
ATOM	5013	C	ALA	527	26.245	81.338	51.646	1.00	0.00	C
ATOM	5014	O	ALA	527	26.819	80.330	51.238	1.00	0.00	O
ATOM	5015	N	LEU	528	25.762	81.445	52.899	1.00	0.00	N
ATOM	5016	HN	LEU	528	25.336	82.321	53.201	1.00	0.00	H
ATOM	5017	CA	LEU	528	25.839	80.344	53.814	1.00	0.00	C
ATOM	5018	CB	LEU	528	27.117	80.405	54.666	1.00	0.00	C
ATOM	5019	CG	LEU	528	27.381	79.144	55.500	1.00	0.00	C
ATOM	5020	CD1	LEU	528	27.545	77.904	54.605	1.00	0.00	C
ATOM	5021	CD2	LEU	528	28.572	79.357	56.451	1.00	0.00	C
ATOM	5022	C	LEU	528	24.622	80.468	54.688	1.00	0.00	C
ATOM	5023	O	LEU	528	23.991	81.521	54.718	1.00	0.00	O
ATOM	5024	N	ASP	529	24.235	79.408	55.426	1.00	0.00	N
ATOM	5025	HN	ASP	529	24.790	78.553	55.440	1.00	0.00	H
ATOM	5026	CA	ASP	529	23.019	79.509	56.196	1.00	0.00	C
ATOM	5027	CB	ASP	529	22.503	78.166	56.736	1.00	0.00	C
ATOM	5028	CG	ASP	529	23.536	77.638	57.712	1.00	0.00	C
ATOM	5029	OD1	ASP	529	24.536	77.026	57.252	1.00	0.00	O

ATOM	5030	OD2	ASP	529	23.332	77.837	58.939	1.00	0.00	O
ATOM	5031	C	ASP	529	23.215	80.453	57.360	1.00	0.00	C
ATOM	5032	O	ASP	529	24.345	80.760	57.733	1.00	0.00	O
ATOM	5033	N	THR	530	22.097	80.948	57.953	1.00	0.00	N
ATOM	5034	HN	THR	530	21.194	80.621	57.608	1.00	0.00	H
ATOM	5035	CA	THR	530	22.095	81.907	59.040	1.00	0.00	C
ATOM	5036	CB	THR	530	20.709	82.226	59.500	1.00	0.00	C
ATOM	5037	OG1	THR	530	19.951	82.729	58.411	1.00	0.00	O
ATOM	5038	HG1	THR	530	19.907	82.082	57.717	1.00	0.00	H
ATOM	5039	CG2	THR	530	20.781	83.274	60.624	1.00	0.00	C
ATOM	5040	C	THR	530	22.822	81.312	60.208	1.00	0.00	C
ATOM	5041	O	THR	530	23.754	81.913	60.733	1.00	0.00	O
ATOM	5042	N	GLU	531	22.473	80.076	60.606	1.00	0.00	N
ATOM	5043	HN	GLU	531	21.807	79.535	60.054	1.00	0.00	H
ATOM	5044	CA	GLU	531	23.032	79.512	61.804	1.00	0.00	C
ATOM	5045	CB	GLU	531	22.518	78.078	62.032	1.00	0.00	C
ATOM	5046	CG	GLU	531	23.230	77.316	63.149	1.00	0.00	C
ATOM	5047	CD	GLU	531	24.337	76.497	62.503	1.00	0.00	C
ATOM	5048	OE1	GLU	531	24.422	76.498	61.246	1.00	0.00	O
ATOM	5049	OE2	GLU	531	25.108	75.844	63.255	1.00	0.00	O
ATOM	5050	C	GLU	531	24.525	79.476	61.708	1.00	0.00	C
ATOM	5051	O	GLU	531	25.228	79.966	62.593	1.00	0.00	O
ATOM	5052	N	SER	532	25.051	78.946	60.597	1.00	0.00	N
ATOM	5053	HN	SER	532	24.438	78.632	59.844	1.00	0.00	H
ATOM	5054	CA	SER	532	26.467	78.818	60.461	1.00	0.00	C
ATOM	5055	CB	SER	532	26.851	78.061	59.182	1.00	0.00	C
ATOM	5056	OG	SER	532	26.362	78.770	58.056	1.00	0.00	O
ATOM	5057	HG	SER	532	26.600	78.302	57.264	1.00	0.00	H
ATOM	5058	C	SER	532	27.055	80.182	60.390	1.00	0.00	C
ATOM	5059	O	SER	532	28.064	80.441	61.039	1.00	0.00	O
ATOM	5060	N	LYS	533	26.385	81.112	59.673	1.00	0.00	N
ATOM	5061	HN	LYS	533	25.470	80.884	59.283	1.00	0.00	H
ATOM	5062	CA	LYS	533	26.944	82.415	59.453	1.00	0.00	C
ATOM	5063	CB	LYS	533	26.031	83.381	58.680	1.00	0.00	C
ATOM	5064	CG	LYS	533	24.941	84.045	59.517	1.00	0.00	C
ATOM	5065	CD	LYS	533	24.245	85.188	58.781	1.00	0.00	C
ATOM	5066	CE	LYS	533	23.182	85.908	59.608	1.00	0.00	C
ATOM	5067	NZ	LYS	533	23.827	86.935	60.454	1.00	0.00	N
ATOM	5068	HZ1	LYS	533	23.117	87.416	61.006	1.00	0.00	H
ATOM	5069	HZ2	LYS	533	24.395	87.583	59.908	1.00	0.00	H
ATOM	5070	HZ3	LYS	533	24.569	86.545	61.035	1.00	0.00	H
ATOM	5071	C	LYS	533	27.235	83.012	60.786	1.00	0.00	C
ATOM	5072	O	LYS	533	28.167	83.802	60.934	1.00	0.00	O
ATOM	5073	N	ALA	534	26.424	82.660	61.798	1.00	0.00	N
ATOM	5074	HN	ALA	534	25.619	82.054	61.638	1.00	0.00	H
ATOM	5075	CA	ALA	534	26.720	83.158	63.107	1.00	0.00	C
ATOM	5076	CB	ALA	534	25.656	82.754	64.141	1.00	0.00	C
ATOM	5077	C	ALA	534	28.036	82.598	63.565	1.00	0.00	C
ATOM	5078	O	ALA	534	28.962	83.344	63.878	1.00	0.00	O
ATOM	5079	N	VAL	535	28.190	81.261	63.513	1.00	0.00	N
ATOM	5080	HN	VAL	535	27.446	80.693	63.107	1.00	0.00	H
ATOM	5081	CA	VAL	535	29.371	80.609	64.012	1.00	0.00	C
ATOM	5082	CB	VAL	535	29.309	79.117	63.837	1.00	0.00	C
ATOM	5083	CG1	VAL	535	30.606	78.506	64.393	1.00	0.00	C
ATOM	5084	CG2	VAL	535	28.023	78.587	64.498	1.00	0.00	C
ATOM	5085	C	VAL	535	30.553	81.109	63.242	1.00	0.00	C
ATOM	5086	O	VAL	535	31.608	81.379	63.815	1.00	0.00	O
ATOM	5087	N	VAL	536	30.397	81.245	61.912	1.00	0.00	N
ATOM	5088	HN	VAL	536	29.483	81.047	61.506	1.00	0.00	H
ATOM	5089	CA	VAL	536	31.461	81.656	61.040	1.00	0.00	C
ATOM	5090	CB	VAL	536	31.037	81.677	59.600	1.00	0.00	C
ATOM	5091	CG1	VAL	536	32.195	82.238	58.760	1.00	0.00	C
ATOM	5092	CG2	VAL	536	30.590	80.260	59.197	1.00	0.00	C
ATOM	5093	C	VAL	536	31.890	83.045	61.384	1.00	0.00	C
ATOM	5094	O	VAL	536	33.079	83.321	61.529	1.00	0.00	O
ATOM	5095	N	GLN	537	30.925	83.962	61.551	1.00	0.00	N
ATOM	5096	HN	GLN	537	29.943	83.703	61.456	1.00	0.00	H
ATOM	5097	CA	GLN	537	31.294	85.309	61.864	1.00	0.00	C
ATOM	5098	CB	GLN	537	30.092	86.255	62.030	1.00	0.00	C
ATOM	5099	CG	GLN	537	29.423	86.651	60.714	1.00	0.00	C
ATOM	5100	CD	GLN	537	30.310	87.677	60.016	1.00	0.00	C
ATOM	5101	OE1	GLN	537	30.022	88.108	58.901	1.00	0.00	O
ATOM	5102	NE2	GLN	537	31.416	88.085	60.693	1.00	0.00	N
ATOM	5103	1HE2	GLN	537	31.655	87.727	61.618	1.00	0.00	H

ATOM	5104	2HE2	GLN	537	32.009	88.771	60.226	1.00	0.00	H
ATOM	5105	C	GLN	537	32.003	85.268	63.179	1.00	0.00	C
ATOM	5106	O	GLN	537	32.925	86.044	63.417	1.00	0.00	O
ATOM	5107	N	VAL	538	31.583	84.353	64.073	1.00	0.00	N
ATOM	5108	HN	VAL	538	30.833	83.710	63.820	1.00	0.00	H
ATOM	5109	CA	VAL	538	32.176	84.270	65.377	1.00	0.00	C
ATOM	5110	CB	VAL	538	31.599	83.160	66.206	1.00	0.00	C
ATOM	5111	CG1	VAL	538	32.397	83.060	67.518	1.00	0.00	C
ATOM	5112	CG2	VAL	538	30.099	83.432	66.409	1.00	0.00	C
ATOM	5113	C	VAL	538	33.649	84.016	65.257	1.00	0.00	C
ATOM	5114	O	VAL	538	34.450	84.676	65.915	1.00	0.00	O
ATOM	5115	N	ALA	539	34.050	83.048	64.414	1.00	0.00	N
ATOM	5116	HN	ALA	539	33.349	82.528	63.886	1.00	0.00	H
ATOM	5117	CA	ALA	539	35.439	82.726	64.237	1.00	0.00	C
ATOM	5118	CB	ALA	539	35.653	81.555	63.262	1.00	0.00	C
ATOM	5119	C	ALA	539	36.124	83.918	63.654	1.00	0.00	C
ATOM	5120	O	ALA	539	37.238	84.258	64.049	1.00	0.00	O
ATOM	5121	N	LEU	540	35.462	84.597	62.700	1.00	0.00	N
ATOM	5122	HN	LEU	540	34.526	84.300	62.424	1.00	0.00	H
ATOM	5123	CA	LEU	540	36.062	85.733	62.069	1.00	0.00	C
ATOM	5124	CB	LEU	540	35.136	86.406	61.036	1.00	0.00	C
ATOM	5125	CG	LEU	540	34.916	85.573	59.759	1.00	0.00	C
ATOM	5126	CD1	LEU	540	33.986	86.288	58.764	1.00	0.00	C
ATOM	5127	CD2	LEU	540	36.262	85.194	59.119	1.00	0.00	C
ATOM	5128	C	LEU	540	36.328	86.737	63.136	1.00	0.00	C
ATOM	5129	O	LEU	540	37.428	87.279	63.217	1.00	0.00	O
ATOM	5130	N	ASP	541	35.340	86.961	64.023	1.00	0.00	N
ATOM	5131	HN	ASP	541	34.488	86.402	63.978	1.00	0.00	H
ATOM	5132	CA	ASP	541	35.467	87.973	65.029	1.00	0.00	C
ATOM	5133	CB	ASP	541	34.234	88.082	65.948	1.00	0.00	C
ATOM	5134	CG	ASP	541	33.051	88.631	65.155	1.00	0.00	C
ATOM	5135	OD1	ASP	541	33.124	88.653	63.898	1.00	0.00	O
ATOM	5136	OD2	ASP	541	32.052	89.040	65.806	1.00	0.00	O
ATOM	5137	C	ASP	541	36.645	87.668	65.901	1.00	0.00	C
ATOM	5138	O	ASP	541	37.472	88.536	66.172	1.00	0.00	O
ATOM	5139	N	LYS	542	36.790	86.406	66.331	1.00	0.00	N
ATOM	5140	HN	LYS	542	36.134	85.684	66.033	1.00	0.00	H
ATOM	5141	CA	LYS	542	37.869	86.079	67.210	1.00	0.00	C
ATOM	5142	CB	LYS	542	37.875	84.601	67.636	1.00	0.00	C
ATOM	5143	CG	LYS	542	36.648	84.215	68.468	1.00	0.00	C
ATOM	5144	CD	LYS	542	36.550	82.719	68.775	1.00	0.00	C
ATOM	5145	CE	LYS	542	36.412	81.834	67.535	1.00	0.00	C
ATOM	5146	NZ	LYS	542	35.022	81.875	67.029	1.00	0.00	N
ATOM	5147	HZ1	LYS	542	34.930	81.285	66.202	1.00	0.00	H
ATOM	5148	HZ2	LYS	542	34.709	82.830	66.852	1.00	0.00	H
ATOM	5149	HZ3	LYS	542	34.346	81.626	67.751	1.00	0.00	H
ATOM	5150	C	LYS	542	39.149	86.378	66.495	1.00	0.00	C
ATOM	5151	O	LYS	542	40.166	86.645	67.127	1.00	0.00	O
ATOM	5152	N	ALA	543	39.160	86.222	65.159	1.00	0.00	N
ATOM	5153	HN	ALA	543	38.305	85.922	64.690	1.00	0.00	H
ATOM	5154	CA	ALA	543	40.339	86.465	64.370	1.00	0.00	C
ATOM	5155	CB	ALA	543	40.235	85.845	62.968	1.00	0.00	C
ATOM	5156	C	ALA	543	40.726	87.909	64.162	1.00	0.00	C
ATOM	5157	O	ALA	543	41.884	88.273	64.359	1.00	0.00	O
ATOM	5158	N	ARG	544	39.751	88.755	63.760	1.00	0.00	N
ATOM	5159	HN	ARG	544	38.787	88.433	63.848	1.00	0.00	H
ATOM	5160	CA	ARG	544	39.960	90.076	63.216	1.00	0.00	C
ATOM	5161	CB	ARG	544	38.676	90.681	62.621	1.00	0.00	C
ATOM	5162	CG	ARG	544	38.021	89.853	61.516	1.00	0.00	C
ATOM	5163	CD	ARG	544	36.943	90.632	60.758	1.00	0.00	C
ATOM	5164	NE	ARG	544	36.014	91.227	61.763	1.00	0.00	N
ATOM	5165	HE	ARG	544	36.221	92.143	62.161	1.00	0.00	H
ATOM	5166	CZ	ARG	544	34.891	90.559	62.155	1.00	0.00	C
ATOM	5167	NH1	ARG	544	34.627	89.316	61.657	1.00	0.00	N
ATOM	5168	1HH1	ARG	544	35.265	88.891	60.985	1.00	0.00	H
ATOM	5169	2HH1	ARG	544	33.787	88.817	61.950	1.00	0.00	H
ATOM	5170	NH2	ARG	544	34.036	91.129	63.056	1.00	0.00	N
ATOM	5171	1HH2	ARG	544	34.233	92.058	63.428	1.00	0.00	H
ATOM	5172	2HH2	ARG	544	33.196	90.630	63.349	1.00	0.00	H
ATOM	5173	C	ARG	544	40.496	91.141	64.109	1.00	0.00	C
ATOM	5174	O	ARG	544	41.427	91.803	63.686	1.00	0.00	O
ATOM	5175	N	LYS	545	40.000	91.336	65.344	1.00	0.00	N
ATOM	5176	HN	LYS	545	39.386	90.635	65.760	1.00	0.00	H
ATOM	5177	CA	LYS	545	40.331	92.532	66.086	1.00	0.00	C

ATOM	5178	CB	LYS	545	39.727	92.547	67.502	1.00	0.00	C
ATOM	5179	CG	LYS	545	38.204	92.719	67.542	1.00	0.00	C
ATOM	5180	CD	LYS	545	37.425	91.535	66.964	1.00	0.00	C
ATOM	5181	CE	LYS	545	35.911	91.632	67.174	1.00	0.00	C
ATOM	5182	NZ	LYS	545	35.373	92.818	66.472	1.00	0.00	N
ATOM	5183	HZ1	LYS	545	34.365	92.883	66.612	1.00	0.00	H
ATOM	5184	HZ2	LYS	545	35.621	92.821	65.483	1.00	0.00	H
ATOM	5185	HZ3	LYS	545	35.852	93.675	66.749	1.00	0.00	H
ATOM	5186	C	LYS	545	41.809	92.694	66.238	1.00	0.00	C
ATOM	5187	O	LYS	545	42.323	93.803	66.099	1.00	0.00	O
ATOM	5188	N	GLY	546	42.535	91.587	66.467	1.00	0.00	N
ATOM	5189	HN	GLY	546	42.069	90.680	66.491	1.00	0.00	H
ATOM	5190	CA	GLY	546	43.950	91.656	66.678	1.00	0.00	C
ATOM	5191	C	GLY	546	44.546	92.340	65.488	1.00	0.00	C
ATOM	5192	O	GLY	546	45.548	93.044	65.601	1.00	0.00	O
ATOM	5193	N	ARG	547	43.923	92.142	64.312	1.00	0.00	N
ATOM	5194	HN	ARG	547	43.065	91.590	64.305	1.00	0.00	H
ATOM	5195	CA	ARG	547	44.406	92.669	63.064	1.00	0.00	C
ATOM	5196	CB	ARG	547	44.471	91.578	61.980	1.00	0.00	C
ATOM	5197	CG	ARG	547	45.591	90.559	62.218	1.00	0.00	C
ATOM	5198	CD	ARG	547	45.511	89.300	61.349	1.00	0.00	C
ATOM	5199	NE	ARG	547	44.714	88.269	62.075	1.00	0.00	N
ATOM	5200	HE	ARG	547	43.714	88.173	61.900	1.00	0.00	H
ATOM	5201	CZ	ARG	547	45.338	87.455	62.976	1.00	0.00	C
ATOM	5202	NH1	ARG	547	46.644	87.678	63.298	1.00	0.00	N
ATOM	5203	1HH1	ARG	547	47.110	87.070	63.971	1.00	0.00	H
ATOM	5204	2HH1	ARG	547	47.146	88.453	62.866	1.00	0.00	H
ATOM	5205	NH2	ARG	547	44.665	86.416	63.555	1.00	0.00	N
ATOM	5206	1HH2	ARG	547	45.131	85.808	64.228	1.00	0.00	H
ATOM	5207	2HH2	ARG	547	43.688	86.249	63.314	1.00	0.00	H
ATOM	5208	C	ARG	547	43.541	93.798	62.530	1.00	0.00	C
ATOM	5209	O	ARG	547	42.338	93.891	62.745	1.00	0.00	O
ATOM	5210	N	THR	548	44.129	94.760	61.805	1.00	0.00	N
ATOM	5211	HN	THR	548	45.137	94.787	61.654	1.00	0.00	H
ATOM	5212	CA	THR	548	43.244	95.751	61.254	1.00	0.00	C
ATOM	5213	CB	THR	548	43.948	97.007	60.818	1.00	0.00	C
ATOM	5214	OG1	THR	548	43.022	97.944	60.289	1.00	0.00	O
ATOM	5215	HG1	THR	548	42.363	98.171	60.935	1.00	0.00	H
ATOM	5216	CG2	THR	548	45.011	96.641	59.775	1.00	0.00	C
ATOM	5217	C	THR	548	42.563	95.118	60.070	1.00	0.00	C
ATOM	5218	O	THR	548	43.236	94.496	59.247	1.00	0.00	O
ATOM	5219	N	THR	549	41.210	95.234	59.945	1.00	0.00	N
ATOM	5220	HN	THR	549	40.654	95.791	60.594	1.00	0.00	H
ATOM	5221	CA	THR	549	40.609	94.521	58.839	1.00	0.00	C
ATOM	5222	CB	THR	549	39.911	93.236	59.195	1.00	0.00	C
ATOM	5223	OG1	THR	549	38.671	93.500	59.833	1.00	0.00	O
ATOM	5224	HG1	THR	549	38.115	94.004	59.250	1.00	0.00	H
ATOM	5225	CG2	THR	549	40.808	92.422	60.136	1.00	0.00	C
ATOM	5226	C	THR	549	39.564	95.297	58.086	1.00	0.00	C
ATOM	5227	O	THR	549	38.664	95.927	58.642	1.00	0.00	O
ATOM	5228	N	ILE	550	39.620	95.178	56.748	1.00	0.00	N
ATOM	5229	HN	ILE	550	40.360	94.615	56.329	1.00	0.00	H
ATOM	5230	CA	ILE	550	38.665	95.823	55.895	1.00	0.00	C
ATOM	5231	CB	ILE	550	39.355	96.508	54.743	1.00	0.00	C
ATOM	5232	CG1	ILE	550	38.385	97.283	53.840	1.00	0.00	C
ATOM	5233	CG2	ILE	550	40.175	95.441	53.998	1.00	0.00	C
ATOM	5234	CD1	ILE	550	37.528	96.380	52.956	1.00	0.00	C
ATOM	5235	C	ILE	550	37.724	94.756	55.402	1.00	0.00	C
ATOM	5236	O	ILE	550	38.145	93.775	54.790	1.00	0.00	O
ATOM	5237	N	VAL	551	36.407	94.909	55.686	1.00	0.00	N
ATOM	5238	HN	VAL	551	36.091	95.738	56.190	1.00	0.00	H
ATOM	5239	CA	VAL	551	35.450	93.909	55.281	1.00	0.00	C
ATOM	5240	CB	VAL	551	34.737	93.260	56.431	1.00	0.00	C
ATOM	5241	CG1	VAL	551	33.924	94.328	57.183	1.00	0.00	C
ATOM	5242	CG2	VAL	551	33.875	92.117	55.871	1.00	0.00	C
ATOM	5243	C	VAL	551	34.389	94.517	54.408	1.00	0.00	C
ATOM	5244	O	VAL	551	33.823	95.565	54.715	1.00	0.00	O
ATOM	5245	N	ILE	552	34.083	93.838	53.282	1.00	0.00	N
ATOM	5246	HN	ILE	552	34.589	92.977	53.076	1.00	0.00	H
ATOM	5247	CA	ILE	552	33.069	94.283	52.361	1.00	0.00	C
ATOM	5248	CB	ILE	552	33.611	94.480	50.967	1.00	0.00	C
ATOM	5249	CG1	ILE	552	32.569	95.075	50.000	1.00	0.00	C
ATOM	5250	CG2	ILE	552	34.184	93.132	50.501	1.00	0.00	C
ATOM	5251	CD1	ILE	552	31.453	94.109	49.600	1.00	0.00	C

ATOM	5252	C	ILE	552	32.031	93.214	52.346	1.00	0.00	C
ATOM	5253	O	ILE	552	32.344	92.034	52.212	1.00	0.00	O
ATOM	5254	N	ALA	553	30.746	93.571	52.519	1.00	0.00	N
ATOM	5255	HN	ALA	553	30.442	94.537	52.638	1.00	0.00	H
ATOM	5256	CA	ALA	553	29.851	92.459	52.519	1.00	0.00	C
ATOM	5257	CB	ALA	553	29.989	91.564	53.763	1.00	0.00	C
ATOM	5258	C	ALA	553	28.427	92.893	52.446	1.00	0.00	C
ATOM	5259	O	ALA	553	28.086	94.074	52.520	1.00	0.00	O
ATOM	5260	N	HIS	554	27.583	91.891	52.152	1.00	0.00	N
ATOM	5261	HN	HIS	554	28.002	90.980	51.964	1.00	0.00	H
ATOM	5262	CA	HIS	554	26.164	91.969	52.076	1.00	0.00	C
ATOM	5263	ND1	HIS	554	25.550	91.973	48.856	1.00	0.00	N
ATOM	5264	HD1	HIS	554	24.771	92.613	49.015	1.00	0.00	H
ATOM	5265	CG	HIS	554	26.068	91.066	49.756	1.00	0.00	C
ATOM	5266	CB	HIS	554	25.568	90.899	51.154	1.00	0.00	C
ATOM	5267	NE2	HIS	554	27.223	90.932	47.824	1.00	0.00	N
ATOM	5268	HE2	HIS	554	27.901	90.650	47.116	1.00	0.00	H
ATOM	5269	CD2	HIS	554	27.086	90.441	49.110	1.00	0.00	C
ATOM	5270	CE1	HIS	554	26.277	91.849	47.719	1.00	0.00	C
ATOM	5271	C	HIS	554	25.457	91.858	53.407	1.00	0.00	C
ATOM	5272	O	HIS	554	24.389	92.437	53.576	1.00	0.00	O
ATOM	5273	N	ARG	555	25.996	91.110	54.391	1.00	0.00	N
ATOM	5274	HN	ARG	555	26.951	90.763	54.306	1.00	0.00	H
ATOM	5275	CA	ARG	555	25.215	90.804	55.563	1.00	0.00	C
ATOM	5276	CB	ARG	555	25.889	89.759	56.470	1.00	0.00	C
ATOM	5277	CG	ARG	555	26.384	88.502	55.746	1.00	0.00	C
ATOM	5278	CD	ARG	555	25.298	87.502	55.347	1.00	0.00	C
ATOM	5279	NE	ARG	555	24.948	87.762	53.922	1.00	0.00	N
ATOM	5280	HE	ARG	555	25.537	87.390	53.177	1.00	0.00	H
ATOM	5281	CZ	ARG	555	23.841	88.496	53.612	1.00	0.00	C
ATOM	5282	NH1	ARG	555	23.038	88.965	54.611	1.00	0.00	N
ATOM	5283	1HH1	ARG	555	22.210	89.514	54.379	1.00	0.00	H
ATOM	5284	2HH1	ARG	555	23.271	88.779	55.586	1.00	0.00	H
ATOM	5285	NH2	ARG	555	23.529	88.745	52.306	1.00	0.00	N
ATOM	5286	1HH2	ARG	555	22.701	89.294	52.074	1.00	0.00	H
ATOM	5287	2HH2	ARG	555	24.129	88.394	51.559	1.00	0.00	H
ATOM	5288	C	ARG	555	25.085	92.026	56.375	1.00	0.00	C
ATOM	5289	O	ARG	555	25.890	92.295	57.262	1.00	0.00	O
ATOM	5290	N	LEU	556	23.987	92.747	56.147	1.00	0.00	N
ATOM	5291	HN	LEU	556	23.299	92.425	55.466	1.00	0.00	H
ATOM	5292	CA	LEU	556	23.772	93.966	56.851	1.00	0.00	C
ATOM	5293	CB	LEU	556	22.419	94.634	56.553	1.00	0.00	C
ATOM	5294	CG	LEU	556	22.267	95.164	55.117	1.00	0.00	C
ATOM	5295	CD1	LEU	556	23.324	96.233	54.797	1.00	0.00	C
ATOM	5296	CD2	LEU	556	22.222	94.021	54.098	1.00	0.00	C
ATOM	5297	C	LEU	556	23.753	93.614	58.293	1.00	0.00	C
ATOM	5298	O	LEU	556	24.225	94.378	59.128	1.00	0.00	O
ATOM	5299	N	SER	557	23.240	92.417	58.618	1.00	0.00	N
ATOM	5300	HN	SER	557	22.903	91.781	57.895	1.00	0.00	H
ATOM	5301	CA	SER	557	23.176	92.052	60.005	1.00	0.00	C
ATOM	5302	CB	SER	557	22.597	90.641	60.230	1.00	0.00	C
ATOM	5303	OG	SER	557	23.462	89.649	59.697	1.00	0.00	O
ATOM	5304	HG	SER	557	23.105	88.780	59.836	1.00	0.00	H
ATOM	5305	C	SER	557	24.561	92.090	60.608	1.00	0.00	C
ATOM	5306	O	SER	557	24.748	92.626	61.698	1.00	0.00	O
ATOM	5307	N	THR	558	25.561	91.505	59.917	1.00	0.00	N
ATOM	5308	HN	THR	558	25.324	91.100	59.011	1.00	0.00	H
ATOM	5309	CA	THR	558	26.938	91.400	60.345	1.00	0.00	C
ATOM	5310	CB	THR	558	27.697	90.341	59.606	1.00	0.00	C
ATOM	5311	OG1	THR	558	27.857	90.708	58.244	1.00	0.00	O
ATOM	5312	HG1	THR	558	28.344	91.521	58.174	1.00	0.00	H
ATOM	5313	CG2	THR	558	26.908	89.023	59.719	1.00	0.00	C
ATOM	5314	C	THR	558	27.680	92.680	60.155	1.00	0.00	C
ATOM	5315	O	THR	558	28.820	92.822	60.595	1.00	0.00	O
ATOM	5316	N	VAL	559	27.114	93.583	59.347	1.00	0.00	N
ATOM	5317	HN	VAL	559	26.215	93.372	58.915	1.00	0.00	H
ATOM	5318	CA	VAL	559	27.741	94.835	59.077	1.00	0.00	C
ATOM	5319	CB	VAL	559	27.014	95.621	58.029	1.00	0.00	C
ATOM	5320	CG1	VAL	559	27.716	96.976	57.843	1.00	0.00	C
ATOM	5321	CG2	VAL	559	26.955	94.772	56.747	1.00	0.00	C
ATOM	5322	C	VAL	559	27.754	95.640	60.325	1.00	0.00	C
ATOM	5323	O	VAL	559	28.729	96.323	60.634	1.00	0.00	O
ATOM	5324	N	ARG	560	26.696	95.460	61.127	1.00	0.00	N
ATOM	5325	HN	ARG	560	26.086	94.666	60.931	1.00	0.00	H

ATOM	5326	CA	ARG	560	26.357	96.294	62.234	1.00	0.00	C
ATOM	5327	CB	ARG	560	25.331	95.568	63.123	1.00	0.00	C
ATOM	5328	CG	ARG	560	24.692	96.404	64.227	1.00	0.00	C
ATOM	5329	CD	ARG	560	23.731	97.452	63.675	1.00	0.00	C
ATOM	5330	NE	ARG	560	23.285	96.983	62.330	1.00	0.00	N
ATOM	5331	HE	ARG	560	23.814	97.255	61.502	1.00	0.00	H
ATOM	5332	CZ	ARG	560	22.178	96.194	62.193	1.00	0.00	C
ATOM	5333	NH1	ARG	560	21.474	95.806	63.296	1.00	0.00	N
ATOM	5334	1HH1	ARG	560	21.776	96.100	64.225	1.00	0.00	H
ATOM	5335	2HH1	ARG	560	20.648	95.217	63.194	1.00	0.00	H
ATOM	5336	NH2	ARG	560	21.774	95.800	60.950	1.00	0.00	N
ATOM	5337	1HH2	ARG	560	22.300	96.090	60.126	1.00	0.00	H
ATOM	5338	2HH2	ARG	560	20.948	95.211	60.848	1.00	0.00	H
ATOM	5339	C	ARG	560	27.574	96.586	63.085	1.00	0.00	C
ATOM	5340	O	ARG	560	27.924	97.750	63.281	1.00	0.00	O
ATOM	5341	N	ASN	561	28.313	95.565	63.556	1.00	0.00	N
ATOM	5342	HN	ASN	561	28.092	94.600	63.311	1.00	0.00	H
ATOM	5343	CA	ASN	561	29.425	95.875	64.415	1.00	0.00	C
ATOM	5344	CB	ASN	561	29.822	94.675	65.287	1.00	0.00	C
ATOM	5345	CG	ASN	561	30.125	93.513	64.350	1.00	0.00	C
ATOM	5346	OD1	ASN	561	29.294	93.130	63.528	1.00	0.00	O
ATOM	5347	ND2	ASN	561	31.349	92.937	64.472	1.00	0.00	N
ATOM	5348	1HD2	ASN	561	32.038	93.255	65.154	1.00	0.00	H
ATOM	5349	2HD2	ASN	561	31.552	92.159	63.845	1.00	0.00	H
ATOM	5350	C	ASN	561	30.621	96.294	63.608	1.00	0.00	C
ATOM	5351	O	ASN	561	31.700	95.708	63.701	1.00	0.00	O
ATOM	5352	N	ALA	562	30.479	97.386	62.838	1.00	0.00	N
ATOM	5353	HN	ALA	562	29.582	97.870	62.796	1.00	0.00	H
ATOM	5354	CA	ALA	562	31.589	97.866	62.078	1.00	0.00	C
ATOM	5355	CB	ALA	562	31.225	98.202	60.629	1.00	0.00	C
ATOM	5356	C	ALA	562	32.038	99.117	62.749	1.00	0.00	C
ATOM	5357	O	ALA	562	31.219	99.932	63.175	1.00	0.00	O
ATOM	5358	N	ASP	563	33.369	99.286	62.873	1.00	0.00	N
ATOM	5359	HN	ASP	563	34.006	98.571	62.522	1.00	0.00	H
ATOM	5360	CA	ASP	563	33.893	100.464	63.495	1.00	0.00	C
ATOM	5361	CB	ASP	563	35.433	100.510	63.518	1.00	0.00	C
ATOM	5362	CG	ASP	563	35.946	99.460	64.493	1.00	0.00	C
ATOM	5363	OD1	ASP	563	35.866	98.249	64.161	1.00	0.00	O
ATOM	5364	OD2	ASP	563	36.430	99.860	65.586	1.00	0.00	O
ATOM	5365	C	ASP	563	33.429	101.603	62.650	1.00	0.00	C
ATOM	5366	O	ASP	563	33.119	102.682	63.153	1.00	0.00	O
ATOM	5367	N	VAL	564	33.385	101.379	61.325	1.00	0.00	N
ATOM	5368	HN	VAL	564	33.665	100.464	60.971	1.00	0.00	H
ATOM	5369	CA	VAL	564	32.959	102.380	60.392	1.00	0.00	C
ATOM	5370	CB	VAL	564	34.109	103.253	59.973	1.00	0.00	C
ATOM	5371	CG1	VAL	564	35.279	102.343	59.560	1.00	0.00	C
ATOM	5372	CG2	VAL	564	33.657	104.207	58.856	1.00	0.00	C
ATOM	5373	C	VAL	564	32.413	101.678	59.181	1.00	0.00	C
ATOM	5374	O	VAL	564	32.733	100.514	58.936	1.00	0.00	O
ATOM	5375	N	ILE	565	31.561	102.388	58.405	1.00	0.00	N
ATOM	5376	HN	ILE	565	31.360	103.352	58.671	1.00	0.00	H
ATOM	5377	CA	ILE	565	30.922	101.864	57.227	1.00	0.00	C
ATOM	5378	CB	ILE	565	29.429	101.876	57.346	1.00	0.00	C
ATOM	5379	CG1	ILE	565	28.961	101.340	58.710	1.00	0.00	C
ATOM	5380	CG2	ILE	565	28.877	101.110	56.134	1.00	0.00	C
ATOM	5381	CD1	ILE	565	29.479	99.956	59.052	1.00	0.00	C
ATOM	5382	C	ILE	565	31.179	102.868	56.139	1.00	0.00	C
ATOM	5383	O	ILE	565	31.370	104.049	56.423	1.00	0.00	O
ATOM	5384	N	ALA	566	31.205	102.425	54.862	1.00	0.00	N
ATOM	5385	HN	ALA	566	31.098	101.429	54.670	1.00	0.00	H
ATOM	5386	CA	ALA	566	31.382	103.347	53.772	1.00	0.00	C
ATOM	5387	CB	ALA	566	32.791	103.309	53.158	1.00	0.00	C
ATOM	5388	C	ALA	566	30.410	102.976	52.681	1.00	0.00	C
ATOM	5389	O	ALA	566	30.115	101.802	52.452	1.00	0.00	O
ATOM	5390	N	GLY	567	29.905	103.986	51.941	1.00	0.00	N
ATOM	5391	HN	GLY	567	30.238	104.940	52.080	1.00	0.00	H
ATOM	5392	CA	GLY	567	28.897	103.708	50.958	1.00	0.00	C
ATOM	5393	C	GLY	567	29.508	103.603	49.610	1.00	0.00	C
ATOM	5394	O	GLY	567	30.125	104.536	49.105	1.00	0.00	O
ATOM	5395	N	PHE	568	29.302	102.432	48.989	1.00	0.00	N
ATOM	5396	HN	PHE	568	28.782	101.716	49.496	1.00	0.00	H
ATOM	5397	CA	PHE	568	29.755	102.111	47.673	1.00	0.00	C
ATOM	5398	CB	PHE	568	30.903	101.079	47.602	1.00	0.00	C
ATOM	5399	CG	PHE	568	32.197	101.674	48.059	1.00	0.00	C

ATOM	5400	CD1	PHE	568	32.872	102.568	47.259	1.00	0.00	C
ATOM	5401	CD2	PHE	568	32.761	101.314	49.263	1.00	0.00	C
ATOM	5402	CE1	PHE	568	34.068	103.115	47.662	1.00	0.00	C
ATOM	5403	CE2	PHE	568	33.958	101.857	49.673	1.00	0.00	C
ATOM	5404	CZ	PHE	568	34.613	102.763	48.874	1.00	0.00	C
ATOM	5405	C	PHE	568	28.587	101.478	46.994	1.00	0.00	C
ATOM	5406	O	PHE	568	27.547	101.235	47.604	1.00	0.00	O
ATOM	5407	N	ASP	569	28.727	101.256	45.678	1.00	0.00	N
ATOM	5408	HN	ASP	569	29.589	101.552	45.220	1.00	0.00	H
ATOM	5409	CA	ASP	569	27.715	100.620	44.892	1.00	0.00	C
ATOM	5410	CB	ASP	569	26.312	101.204	45.124	1.00	0.00	C
ATOM	5411	CG	ASP	569	25.288	100.217	44.582	1.00	0.00	C
ATOM	5412	OD1	ASP	569	25.361	99.020	44.971	1.00	0.00	O
ATOM	5413	OD2	ASP	569	24.426	100.639	43.766	1.00	0.00	O
ATOM	5414	C	ASP	569	28.096	100.933	43.484	1.00	0.00	C
ATOM	5415	O	ASP	569	27.528	101.822	42.852	1.00	0.00	O
ATOM	5416	N	ASP	570	29.000	100.127	42.915	1.00	0.00	N
ATOM	5417	HN	ASP	570	29.312	99.291	43.410	1.00	0.00	H
ATOM	5418	CA	ASP	570	29.537	100.424	41.616	1.00	0.00	C
ATOM	5419	CB	ASP	570	28.491	100.551	40.497	1.00	0.00	C
ATOM	5420	CG	ASP	570	29.165	100.363	39.140	1.00	0.00	C
ATOM	5421	OD1	ASP	570	29.983	101.229	38.734	1.00	0.00	O
ATOM	5422	OD2	ASP	570	28.850	99.335	38.481	1.00	0.00	O
ATOM	5423	C	ASP	570	30.327	101.700	41.591	1.00	0.00	C
ATOM	5424	O	ASP	570	29.995	102.621	40.851	1.00	0.00	O
ATOM	5425	N	GLY	571	31.395	101.795	42.410	1.00	0.00	N
ATOM	5426	HN	GLY	571	31.572	101.056	43.091	1.00	0.00	H
ATOM	5427	CA	GLY	571	32.287	102.920	42.339	1.00	0.00	C
ATOM	5428	C	GLY	571	31.656	104.224	42.771	1.00	0.00	C
ATOM	5429	O	GLY	571	31.560	105.139	41.957	1.00	0.00	O
ATOM	5430	N	VAL	572	31.149	104.355	44.021	1.00	0.00	N
ATOM	5431	HN	VAL	572	31.076	103.546	44.638	1.00	0.00	H
ATOM	5432	CA	VAL	572	30.712	105.663	44.467	1.00	0.00	C
ATOM	5433	CB	VAL	572	29.320	106.025	44.006	1.00	0.00	C
ATOM	5434	CG1	VAL	572	28.314	104.952	44.462	1.00	0.00	C
ATOM	5435	CG2	VAL	572	28.999	107.440	44.515	1.00	0.00	C
ATOM	5436	C	VAL	572	30.773	105.719	45.973	1.00	0.00	C
ATOM	5437	O	VAL	572	30.015	105.012	46.630	1.00	0.00	O
ATOM	5438	N	ILE	573	31.627	106.605	46.560	1.00	0.00	N
ATOM	5439	HN	ILE	573	32.144	107.259	45.972	1.00	0.00	H
ATOM	5440	CA	ILE	573	31.822	106.645	47.997	1.00	0.00	C
ATOM	5441	CB	ILE	573	33.292	106.714	48.351	1.00	0.00	C
ATOM	5442	CG1	ILE	573	33.552	106.697	49.871	1.00	0.00	C
ATOM	5443	CG2	ILE	573	33.901	107.918	47.613	1.00	0.00	C
ATOM	5444	CD1	ILE	573	33.221	108.003	50.590	1.00	0.00	C
ATOM	5445	C	ILE	573	31.081	107.816	48.591	1.00	0.00	C
ATOM	5446	O	ILE	573	31.531	108.955	48.505	1.00	0.00	O
ATOM	5447	N	VAL	574	29.839	107.593	49.073	1.00	0.00	N
ATOM	5448	HN	VAL	574	29.429	106.663	48.986	1.00	0.00	H
ATOM	5449	CA	VAL	574	29.081	108.642	49.707	1.00	0.00	C
ATOM	5450	CB	VAL	574	27.645	108.585	49.270	1.00	0.00	C
ATOM	5451	CG1	VAL	574	27.609	108.920	47.770	1.00	0.00	C
ATOM	5452	CG2	VAL	574	27.077	107.185	49.571	1.00	0.00	C
ATOM	5453	C	VAL	574	29.107	108.783	51.215	1.00	0.00	C
ATOM	5454	O	VAL	574	29.730	109.691	51.767	1.00	0.00	O
ATOM	5455	N	GLU	575	28.491	107.805	51.926	1.00	0.00	N
ATOM	5456	HN	GLU	575	28.243	106.932	51.460	1.00	0.00	H
ATOM	5457	CA	GLU	575	28.179	107.970	53.325	1.00	0.00	C
ATOM	5458	CB	GLU	575	26.725	107.605	53.639	1.00	0.00	C
ATOM	5459	CG	GLU	575	26.392	106.180	53.214	1.00	0.00	C
ATOM	5460	CD	GLU	575	24.904	105.979	53.400	1.00	0.00	C
ATOM	5461	OE1	GLU	575	24.160	106.994	53.445	1.00	0.00	O
ATOM	5462	OE2	GLU	575	24.490	104.798	53.499	1.00	0.00	O
ATOM	5463	C	GLU	575	29.068	107.128	54.173	1.00	0.00	C
ATOM	5464	O	GLU	575	29.043	105.901	54.102	1.00	0.00	O
ATOM	5465	N	LYS	576	29.847	107.805	55.039	1.00	0.00	N
ATOM	5466	HN	LYS	576	29.759	108.820	55.081	1.00	0.00	H
ATOM	5467	CA	LYS	576	30.792	107.165	55.902	1.00	0.00	C
ATOM	5468	CB	LYS	576	32.159	107.866	55.870	1.00	0.00	C
ATOM	5469	CG	LYS	576	32.830	107.860	54.496	1.00	0.00	C
ATOM	5470	CD	LYS	576	33.921	108.922	54.360	1.00	0.00	C
ATOM	5471	CE	LYS	576	34.808	109.035	55.600	1.00	0.00	C
ATOM	5472	NZ	LYS	576	34.142	109.871	56.624	1.00	0.00	N
ATOM	5473	HZ1	LYS	576	34.734	109.946	57.451	1.00	0.00	H

ATOM	5474	HZ2	LYS	576	33.209	109.527	56.851	1.00	0.00	H
ATOM	5475	HZ3	LYS	576	33.878	110.786	56.258	1.00	0.00	H
ATOM	5476	C	LYS	576	30.269	107.326	57.290	1.00	0.00	C
ATOM	5477	O	LYS	576	29.608	108.318	57.592	1.00	0.00	O
ATOM	5478	N	GLY	577	30.523	106.343	58.175	1.00	0.00	N
ATOM	5479	HN	GLY	577	31.009	105.489	57.900	1.00	0.00	H
ATOM	5480	CA	GLY	577	30.080	106.552	59.515	1.00	0.00	C
ATOM	5481	C	GLY	577	29.464	105.310	60.058	1.00	0.00	C
ATOM	5482	O	GLY	577	29.441	104.260	59.416	1.00	0.00	O
ATOM	5483	N	ASN	578	28.914	105.444	61.278	1.00	0.00	N
ATOM	5484	HN	ASN	578	28.903	106.372	61.700	1.00	0.00	H
ATOM	5485	CA	ASN	578	28.344	104.362	62.017	1.00	0.00	C
ATOM	5486	CB	ASN	578	28.099	104.728	63.493	1.00	0.00	C
ATOM	5487	CG	ASN	578	27.730	103.462	64.248	1.00	0.00	C
ATOM	5488	OD1	ASN	578	28.514	102.517	64.320	1.00	0.00	O
ATOM	5489	ND2	ASN	578	26.500	103.437	64.827	1.00	0.00	N
ATOM	5490	1HD2	ASN	578	26.252	102.587	65.334	1.00	0.00	H
ATOM	5491	2HD2	ASN	578	25.850	104.221	64.767	1.00	0.00	H
ATOM	5492	C	ASN	578	27.040	103.954	61.397	1.00	0.00	C
ATOM	5493	O	ASN	578	26.435	104.681	60.611	1.00	0.00	O
ATOM	5494	N	HIS	579	26.576	102.747	61.774	1.00	0.00	N
ATOM	5495	HN	HIS	579	27.077	102.262	62.518	1.00	0.00	H
ATOM	5496	CA	HIS	579	25.428	102.087	61.209	1.00	0.00	C
ATOM	5497	ND1	HIS	579	23.793	99.509	60.128	1.00	0.00	N
ATOM	5498	HD1	HIS	579	24.491	99.482	59.385	1.00	0.00	H
ATOM	5499	CG	HIS	579	23.951	100.043	61.382	1.00	0.00	C
ATOM	5500	CB	HIS	579	25.196	100.716	61.866	1.00	0.00	C
ATOM	5501	NE2	HIS	579	21.867	99.208	61.197	1.00	0.00	N
ATOM	5502	HE2	HIS	579	20.907	98.938	61.410	1.00	0.00	H
ATOM	5503	CD2	HIS	579	22.767	99.850	62.027	1.00	0.00	C
ATOM	5504	CE1	HIS	579	22.524	99.022	60.069	1.00	0.00	C
ATOM	5505	C	HIS	579	24.165	102.869	61.330	1.00	0.00	C
ATOM	5506	O	HIS	579	23.518	103.150	60.320	1.00	0.00	O
ATOM	5507	N	ASP	580	23.816	103.287	62.556	1.00	0.00	N
ATOM	5508	HN	ASP	580	24.448	103.111	63.337	1.00	0.00	H
ATOM	5509	CA	ASP	580	22.585	103.972	62.802	1.00	0.00	C
ATOM	5510	CB	ASP	580	22.465	104.429	64.264	1.00	0.00	C
ATOM	5511	CG	ASP	580	22.417	103.195	65.153	1.00	0.00	C
ATOM	5512	OD1	ASP	580	22.696	102.075	64.645	1.00	0.00	O
ATOM	5513	OD2	ASP	580	22.096	103.361	66.360	1.00	0.00	O
ATOM	5514	C	ASP	580	22.634	105.197	61.968	1.00	0.00	C
ATOM	5515	O	ASP	580	21.601	105.730	61.567	1.00	0.00	O
ATOM	5516	N	GLU	581	23.856	105.697	61.729	1.00	0.00	N
ATOM	5517	HN	GLU	581	24.678	105.216	62.094	1.00	0.00	H
ATOM	5518	CA	GLU	581	24.019	106.896	60.968	1.00	0.00	C
ATOM	5519	CB	GLU	581	25.491	107.338	60.903	1.00	0.00	C
ATOM	5520	CG	GLU	581	26.100	107.575	62.288	1.00	0.00	C
ATOM	5521	CD	GLU	581	27.515	108.112	62.125	1.00	0.00	C
ATOM	5522	OE1	GLU	581	27.723	108.977	61.232	1.00	0.00	O
ATOM	5523	OE2	GLU	581	28.406	107.664	62.896	1.00	0.00	O
ATOM	5524	C	GLU	581	23.567	106.673	59.554	1.00	0.00	C
ATOM	5525	O	GLU	581	22.817	107.476	59.004	1.00	0.00	O
ATOM	5526	N	LEU	582	24.022	105.576	58.918	1.00	0.00	N
ATOM	5527	HN	LEU	582	24.613	104.917	59.424	1.00	0.00	H
ATOM	5528	CA	LEU	582	23.694	105.311	57.539	1.00	0.00	C
ATOM	5529	CB	LEU	582	24.554	104.208	56.901	1.00	0.00	C
ATOM	5530	CG	LEU	582	26.008	104.624	56.614	1.00	0.00	C
ATOM	5531	CD1	LEU	582	26.806	104.872	57.901	1.00	0.00	C
ATOM	5532	CD2	LEU	582	26.680	103.619	55.666	1.00	0.00	C
ATOM	5533	C	LEU	582	22.258	104.925	57.347	1.00	0.00	C
ATOM	5534	O	LEU	582	21.682	105.179	56.289	1.00	0.00	O
ATOM	5535	N	MET	583	21.687	104.173	58.304	1.00	0.00	N
ATOM	5536	HN	MET	583	22.256	103.845	59.084	1.00	0.00	H
ATOM	5537	CA	MET	583	20.295	103.819	58.256	1.00	0.00	C
ATOM	5538	CB	MET	583	19.932	102.796	59.343	1.00	0.00	C
ATOM	5539	CG	MET	583	20.701	101.479	59.212	1.00	0.00	C
ATOM	5540	SD	MET	583	20.264	100.480	57.759	1.00	0.00	S
ATOM	5541	CE	MET	583	18.865	99.661	58.573	1.00	0.00	C
ATOM	5542	C	MET	583	19.496	105.058	58.521	1.00	0.00	C
ATOM	5543	O	MET	583	18.476	105.304	57.879	1.00	0.00	O
ATOM	5544	N	LYS	584	19.962	105.884	59.482	1.00	0.00	N
ATOM	5545	HN	LYS	584	20.843	105.667	59.947	1.00	0.00	H
ATOM	5546	CA	LYS	584	19.235	107.062	59.858	1.00	0.00	C
ATOM	5547	CB	LYS	584	19.880	107.855	61.006	1.00	0.00	C

ATOM	5548	CG	LYS	584	18.864	108.713	61.769	1.00	0.00	C
ATOM	5549	CD	LYS	584	18.106	109.736	60.919	1.00	0.00	C
ATOM	5550	CE	LYS	584	18.618	111.167	61.087	1.00	0.00	C
ATOM	5551	NZ	LYS	584	17.758	112.109	60.337	1.00	0.00	N
ATOM	5552	HZ1	LYS	584	18.100	113.064	60.449	1.00	0.00	H
ATOM	5553	HZ2	LYS	584	16.777	112.022	60.601	1.00	0.00	H
ATOM	5554	HZ3	LYS	584	17.673	111.848	59.355	1.00	0.00	H
ATOM	5555	C	LYS	584	19.205	107.940	58.654	1.00	0.00	C
ATOM	5556	O	LYS	584	18.229	108.648	58.403	1.00	0.00	O
ATOM	5557	N	GLU	585	20.310	107.902	57.885	1.00	0.00	N
ATOM	5558	HN	GLU	585	21.086	107.305	58.173	1.00	0.00	H
ATOM	5559	CA	GLU	585	20.440	108.663	56.683	1.00	0.00	C
ATOM	5560	CB	GLU	585	21.812	108.519	56.001	1.00	0.00	C
ATOM	5561	CG	GLU	585	21.992	109.455	54.798	1.00	0.00	C
ATOM	5562	CD	GLU	585	22.093	110.889	55.306	1.00	0.00	C
ATOM	5563	OE1	GLU	585	22.215	111.072	56.547	1.00	0.00	O
ATOM	5564	OE2	GLU	585	22.041	111.822	54.461	1.00	0.00	O
ATOM	5565	C	GLU	585	19.397	108.162	55.746	1.00	0.00	C
ATOM	5566	O	GLU	585	18.843	108.938	54.967	1.00	0.00	O
ATOM	5567	N	LYS	586	19.093	106.848	55.810	1.00	0.00	N
ATOM	5568	HN	LYS	586	19.568	106.234	56.472	1.00	0.00	H
ATOM	5569	CA	LYS	586	18.088	106.336	54.928	1.00	0.00	C
ATOM	5570	CB	LYS	586	16.787	107.139	55.108	1.00	0.00	C
ATOM	5571	CG	LYS	586	15.663	106.797	54.151	1.00	0.00	C
ATOM	5572	CD	LYS	586	15.114	105.393	54.330	1.00	0.00	C
ATOM	5573	CE	LYS	586	14.115	105.049	53.233	1.00	0.00	C
ATOM	5574	NZ	LYS	586	14.794	105.057	51.916	1.00	0.00	N
ATOM	5575	HZ1	LYS	586	14.125	104.827	51.181	1.00	0.00	H
ATOM	5576	HZ2	LYS	586	15.608	104.442	51.900	1.00	0.00	H
ATOM	5577	HZ3	LYS	586	15.272	105.940	51.736	1.00	0.00	H
ATOM	5578	C	LYS	586	18.624	106.521	53.551	1.00	0.00	C
ATOM	5579	O	LYS	586	17.895	106.704	52.578	1.00	0.00	O
ATOM	5580	N	GLY	587	19.957	106.429	53.441	1.00	0.00	N
ATOM	5581	HN	GLY	587	20.520	106.207	54.262	1.00	0.00	H
ATOM	5582	CA	GLY	587	20.591	106.640	52.185	1.00	0.00	C
ATOM	5583	C	GLY	587	20.861	105.319	51.552	1.00	0.00	C
ATOM	5584	O	GLY	587	20.012	104.427	51.507	1.00	0.00	O
ATOM	5585	N	ILE	588	22.083	105.184	51.015	1.00	0.00	N
ATOM	5586	HN	ILE	588	22.769	105.931	51.122	1.00	0.00	H
ATOM	5587	CA	ILE	588	22.427	104.005	50.297	1.00	0.00	C
ATOM	5588	CB	ILE	588	23.813	104.069	49.741	1.00	0.00	C
ATOM	5589	CG1	ILE	588	23.972	105.301	48.835	1.00	0.00	C
ATOM	5590	CG2	ILE	588	24.085	102.729	49.037	1.00	0.00	C
ATOM	5591	CD1	ILE	588	23.050	105.292	47.618	1.00	0.00	C
ATOM	5592	C	ILE	588	22.407	102.817	51.202	1.00	0.00	C
ATOM	5593	O	ILE	588	21.783	101.803	50.888	1.00	0.00	O
ATOM	5594	N	TYR	589	23.046	102.942	52.379	1.00	0.00	N
ATOM	5595	HN	TYR	589	23.419	103.849	52.660	1.00	0.00	H
ATOM	5596	CA	TYR	589	23.206	101.811	53.239	1.00	0.00	C
ATOM	5597	CB	TYR	589	23.909	102.186	54.549	1.00	0.00	C
ATOM	5598	CG	TYR	589	24.113	100.944	55.339	1.00	0.00	C
ATOM	5599	CD1	TYR	589	25.041	100.015	54.935	1.00	0.00	C
ATOM	5600	CD2	TYR	589	23.400	100.720	56.492	1.00	0.00	C
ATOM	5601	CE1	TYR	589	25.249	98.868	55.662	1.00	0.00	C
ATOM	5602	CE2	TYR	589	23.604	99.576	57.225	1.00	0.00	C
ATOM	5603	CZ	TYR	589	24.528	98.648	56.810	1.00	0.00	C
ATOM	5604	OH	TYR	589	24.736	97.476	57.565	1.00	0.00	O
ATOM	5605	HH	TYR	589	25.375	96.834	57.278	1.00	0.00	H
ATOM	5606	C	TYR	589	21.860	101.247	53.558	1.00	0.00	C
ATOM	5607	O	TYR	589	21.565	100.087	53.267	1.00	0.00	O
ATOM	5608	N	PHE	590	20.964	102.105	54.051	1.00	0.00	N
ATOM	5609	HN	PHE	590	21.216	103.088	54.152	1.00	0.00	H
ATOM	5610	CA	PHE	590	19.660	101.672	54.440	1.00	0.00	C
ATOM	5611	CB	PHE	590	18.803	102.796	55.050	1.00	0.00	C
ATOM	5612	CG	PHE	590	17.433	102.245	55.253	1.00	0.00	C
ATOM	5613	CD1	PHE	590	17.199	101.262	56.188	1.00	0.00	C
ATOM	5614	CD2	PHE	590	16.376	102.727	54.517	1.00	0.00	C
ATOM	5615	CE1	PHE	590	15.935	100.755	56.377	1.00	0.00	C
ATOM	5616	CE2	PHE	590	15.110	102.226	54.703	1.00	0.00	C
ATOM	5617	CZ	PHE	590	14.887	101.237	55.632	1.00	0.00	C
ATOM	5618	C	PHE	590	18.946	101.109	53.247	1.00	0.00	C
ATOM	5619	O	PHE	590	18.359	100.027	53.310	1.00	0.00	O
ATOM	5620	N	LYS	591	19.022	101.809	52.105	1.00	0.00	N
ATOM	5621	HN	LYS	591	19.623	102.631	52.049	1.00	0.00	H

ATOM	5622	CA	LYS	591	18.259	101.402	50.965	1.00	0.00	C
ATOM	5623	CB	LYS	591	18.463	102.299	49.738	1.00	0.00	C
ATOM	5624	CG	LYS	591	17.629	101.820	48.549	1.00	0.00	C
ATOM	5625	CD	LYS	591	17.561	102.814	47.393	1.00	0.00	C
ATOM	5626	CE	LYS	591	16.782	102.290	46.184	1.00	0.00	C
ATOM	5627	NZ	LYS	591	17.676	101.509	45.300	1.00	0.00	N
ATOM	5628	HZ1	LYS	591	17.157	101.160	44.494	1.00	0.00	H
ATOM	5629	HZ2	LYS	591	18.149	100.758	45.803	1.00	0.00	H
ATOM	5630	HZ3	LYS	591	18.498	102.044	45.021	1.00	0.00	H
ATOM	5631	C	LYS	591	18.669	100.032	50.547	1.00	0.00	C
ATOM	5632	O	LYS	591	17.847	99.134	50.362	1.00	0.00	O
ATOM	5633	N	LEU	592	19.981	99.827	50.420	1.00	0.00	N
ATOM	5634	HN	LEU	592	20.642	100.575	50.631	1.00	0.00	H
ATOM	5635	CA	LEU	592	20.448	98.556	49.988	1.00	0.00	C
ATOM	5636	CB	LEU	592	21.963	98.506	49.717	1.00	0.00	C
ATOM	5637	CG	LEU	592	22.360	99.222	48.406	1.00	0.00	C
ATOM	5638	CD1	LEU	592	21.818	98.465	47.185	1.00	0.00	C
ATOM	5639	CD2	LEU	592	21.926	100.695	48.383	1.00	0.00	C
ATOM	5640	C	LEU	592	20.078	97.540	51.005	1.00	0.00	C
ATOM	5641	O	LEU	592	19.807	96.391	50.651	1.00	0.00	O
ATOM	5642	N	VAL	593	20.030	97.956	52.288	1.00	0.00	N
ATOM	5643	HN	VAL	593	20.210	98.937	52.503	1.00	0.00	H
ATOM	5644	CA	VAL	593	19.731	97.047	53.353	1.00	0.00	C
ATOM	5645	CB	VAL	593	19.540	97.719	54.687	1.00	0.00	C
ATOM	5646	CG1	VAL	593	18.924	96.701	55.664	1.00	0.00	C
ATOM	5647	CG2	VAL	593	20.898	98.250	55.175	1.00	0.00	C
ATOM	5648	C	VAL	593	18.439	96.369	53.002	1.00	0.00	C
ATOM	5649	O	VAL	593	18.346	95.142	52.965	1.00	0.00	O
ATOM	5650	N	THR	594	17.426	97.162	52.636	1.00	0.00	N
ATOM	5651	HN	THR	594	17.588	98.165	52.548	1.00	0.00	H
ATOM	5652	CA	THR	594	16.117	96.639	52.364	1.00	0.00	C
ATOM	5653	CB	THR	594	15.101	97.710	52.124	1.00	0.00	C
ATOM	5654	OG1	THR	594	15.433	98.430	50.947	1.00	0.00	O
ATOM	5655	HG1	THR	594	15.448	97.852	50.194	1.00	0.00	H
ATOM	5656	CG2	THR	594	15.077	98.646	53.343	1.00	0.00	C
ATOM	5657	C	THR	594	16.112	95.787	51.127	1.00	0.00	C
ATOM	5658	O	THR	594	15.460	94.747	51.053	1.00	0.00	O
ATOM	5659	N	MET	595	16.882	96.216	50.125	1.00	0.00	N
ATOM	5660	HN	MET	595	17.490	97.010	50.329	1.00	0.00	H
ATOM	5661	CA	MET	595	16.951	95.687	48.795	1.00	0.00	C
ATOM	5662	CB	MET	595	17.678	96.620	47.802	1.00	0.00	C
ATOM	5663	CG	MET	595	17.587	96.129	46.352	1.00	0.00	C
ATOM	5664	SD	MET	595	18.547	97.077	45.134	1.00	0.00	S
ATOM	5665	CE	MET	595	18.500	95.779	43.862	1.00	0.00	C
ATOM	5666	C	MET	595	17.636	94.338	48.762	1.00	0.00	C
ATOM	5667	O	MET	595	17.786	93.752	47.690	1.00	0.00	O
ATOM	5668	N	GLN	596	18.006	93.758	49.921	1.00	0.00	N
ATOM	5669	HN	GLN	596	17.501	94.029	50.765	1.00	0.00	H
ATOM	5670	CA	GLN	596	19.064	92.780	50.062	1.00	0.00	C
ATOM	5671	CB	GLN	596	18.817	91.777	51.199	1.00	0.00	C
ATOM	5672	CG	GLN	596	19.341	92.245	52.552	1.00	0.00	C
ATOM	5673	CD	GLN	596	20.826	91.895	52.565	1.00	0.00	C
ATOM	5674	OE1	GLN	596	21.269	91.028	53.317	1.00	0.00	O
ATOM	5675	NE2	GLN	596	21.619	92.571	51.694	1.00	0.00	N
ATOM	5676	1HE2	GLN	596	21.252	93.290	51.071	1.00	0.00	H
ATOM	5677	2HE2	GLN	596	22.612	92.337	51.703	1.00	0.00	H
ATOM	5678	C	GLN	596	19.472	91.936	48.863	1.00	0.00	C
ATOM	5679	O	GLN	596	20.650	92.042	48.532	1.00	0.00	O
ATOM	5680	N	THR	597	18.647	91.072	48.220	1.00	0.00	N
ATOM	5681	HN	THR	597	17.736	90.881	48.638	1.00	0.00	H
ATOM	5682	CA	THR	597	18.990	90.373	46.923	1.00	0.00	C
ATOM	5683	CB	THR	597	20.128	90.954	46.121	1.00	0.00	C
ATOM	5684	OG1	THR	597	19.871	92.321	45.830	1.00	0.00	O
ATOM	5685	HG1	THR	597	20.588	92.687	45.325	1.00	0.00	H
ATOM	5686	CG2	THR	597	20.276	90.164	44.812	1.00	0.00	C
ATOM	5687	C	THR	597	19.196	88.727	46.907	1.00	0.00	C
ATOM	5688	O	THR	597	19.409	88.454	48.097	1.00	0.00	O
ATOM	5689	N	LEU	598	19.177	87.729	45.714	1.00	0.00	N
ATOM	5690	CA	LEU	598	19.244	86.108	45.417	1.00	0.00	C
ATOM	5691	CB	LEU	598	17.949	85.392	45.856	1.00	0.00	C
ATOM	5692	CG	LEU	598	17.683	85.365	47.372	1.00	0.00	C
ATOM	5693	CD1	LEU	598	17.269	86.743	47.902	1.00	0.00	C
ATOM	5694	CD2	LEU	598	16.680	84.261	47.741	1.00	0.00	C
ATOM	5695	C	LEU	598	19.649	85.157	44.061	1.00	0.00	C

ATOM	5696	O	LEU	598	19.957	85.665	42.983	1.00	0.00	O
ATOM	5697	N	ASP	599	19.689	83.687	44.069	1.00	0.00	N
ATOM	5698	HN	ASP	599	19.502	83.276	44.984	1.00	0.00	H
ATOM	5699	CA	ASP	599	19.964	82.625	42.940	1.00	0.00	C
ATOM	5700	CB	ASP	599	21.425	82.582	42.460	1.00	0.00	C
ATOM	5701	CG	ASP	599	21.546	83.700	41.425	1.00	0.00	C
ATOM	5702	OD1	ASP	599	20.662	83.754	40.528	1.00	0.00	O
ATOM	5703	OD2	ASP	599	22.515	84.501	41.503	1.00	0.00	O
ATOM	5704	C	ASP	599	19.379	81.120	43.005	1.00	0.00	C
ATOM	5705	O	ASP	599	18.799	80.769	44.029	1.00	0.00	O
ATOM	5706	N	GLU	600	19.483	80.174	41.930	1.00	0.00	N
ATOM	5707	HN	GLU	600	20.040	80.443	41.119	1.00	0.00	H
ATOM	5708	CA	GLU	600	18.825	78.797	41.907	1.00	0.00	C
ATOM	5709	CB	GLU	600	17.316	78.956	42.192	1.00	0.00	C
ATOM	5710	CG	GLU	600	16.546	79.774	41.136	1.00	0.00	C
ATOM	5711	CD	GLU	600	17.040	81.219	41.059	1.00	0.00	C
ATOM	5712	OE1	GLU	600	16.781	82.015	42.003	1.00	0.00	O
ATOM	5713	OE2	GLU	600	17.706	81.533	40.037	1.00	0.00	O
ATOM	5714	C	GLU	600	18.931	77.884	40.635	1.00	0.00	C
ATOM	5715	O	GLU	600	19.220	78.319	39.527	1.00	0.00	O
ATOM	5716	N	SER	601	18.668	76.541	40.765	1.00	0.00	N
ATOM	5717	HN	SER	601	18.477	76.223	41.715	1.00	0.00	H
ATOM	5718	CA	SER	601	18.623	75.492	39.724	1.00	0.00	C
ATOM	5719	CB	SER	601	20.011	74.975	39.310	1.00	0.00	C
ATOM	5720	OG	SER	601	20.652	74.364	40.419	1.00	0.00	O
ATOM	5721	HG	SER	601	21.509	74.045	40.163	1.00	0.00	H
ATOM	5722	C	SER	601	17.897	74.383	40.402	1.00	0.00	C
ATOM	5723	O	SER	601	17.797	74.404	41.627	1.00	0.00	O
ATOM	5724	N	ILE	602	17.342	73.395	39.668	1.00	0.00	N
ATOM	5725	HN	ILE	602	17.430	73.334	38.654	1.00	0.00	H
ATOM	5726	CA	ILE	602	16.613	72.434	40.458	1.00	0.00	C
ATOM	5727	CB	ILE	602	15.137	72.746	40.457	1.00	0.00	C
ATOM	5728	CG1	ILE	602	14.405	72.002	41.576	1.00	0.00	C
ATOM	5729	CG2	ILE	602	14.567	72.491	39.052	1.00	0.00	C
ATOM	5730	CD1	ILE	602	12.993	72.534	41.810	1.00	0.00	C
ATOM	5731	C	ILE	602	16.839	70.989	40.063	1.00	0.00	C
ATOM	5732	O	ILE	602	16.739	70.591	38.907	1.00	0.00	O
ATOM	5733	N	PRO	603	17.167	70.196	41.061	1.00	0.00	N
ATOM	5734	CA	PRO	603	17.338	68.768	40.871	1.00	0.00	C
ATOM	5735	CD	PRO	603	18.061	70.703	42.091	1.00	0.00	C
ATOM	5736	CB	PRO	603	18.144	68.277	42.072	1.00	0.00	C
ATOM	5737	CG	PRO	603	18.950	69.515	42.498	1.00	0.00	C
ATOM	5738	C	PRO	603	16.087	67.950	40.618	1.00	0.00	C
ATOM	5739	O	PRO	603	16.220	66.869	40.049	1.00	0.00	O
ATOM	5740	N	PRO	604	14.906	68.366	40.998	1.00	0.00	N
ATOM	5741	CA	PRO	604	13.762	67.510	40.760	1.00	0.00	C
ATOM	5742	CD	PRO	604	14.763	69.079	42.255	1.00	0.00	C
ATOM	5743	CB	PRO	604	12.625	68.105	41.581	1.00	0.00	C
ATOM	5744	CG	PRO	604	13.363	68.716	42.787	1.00	0.00	C
ATOM	5745	C	PRO	604	13.464	67.301	39.313	1.00	0.00	C
ATOM	5746	O	PRO	604	13.681	68.210	38.515	1.00	0.00	O
ATOM	5747	N	VAL	605	12.928	66.112	38.970	1.00	0.00	N
ATOM	5748	HN	VAL	605	12.656	65.462	39.707	1.00	0.00	H
ATOM	5749	CA	VAL	605	12.728	65.731	37.597	1.00	0.00	C
ATOM	5750	CB	VAL	605	13.461	64.444	37.291	1.00	0.00	C
ATOM	5751	CG1	VAL	605	13.451	64.143	35.780	1.00	0.00	C
ATOM	5752	CG2	VAL	605	14.874	64.553	37.891	1.00	0.00	C
ATOM	5753	C	VAL	605	11.233	65.556	37.404	1.00	0.00	C
ATOM	5754	O	VAL	605	10.449	66.256	38.040	1.00	0.00	O
ATOM	5755	N	SER	606	10.790	64.720	36.431	1.00	0.00	N
ATOM	5756	HN	SER	606	11.470	64.279	35.812	1.00	0.00	H
ATOM	5757	CA	SER	606	9.385	64.434	36.243	1.00	0.00	C
ATOM	5758	CB	SER	606	8.601	65.512	35.468	1.00	0.00	C
ATOM	5759	OG	SER	606	8.293	66.615	36.302	1.00	0.00	O
ATOM	5760	HG	SER	606	7.810	67.279	35.824	1.00	0.00	H
ATOM	5761	C	SER	606	9.243	63.184	35.418	1.00	0.00	C
ATOM	5762	O	SER	606	8.910	63.241	34.234	1.00	0.00	O
ATOM	5763	N	PHE	607	9.390	61.997	36.032	1.00	0.00	N
ATOM	5764	HN	PHE	607	9.528	61.931	37.040	1.00	0.00	H
ATOM	5765	CA	PHE	607	9.344	60.824	35.198	1.00	0.00	C
ATOM	5766	CB	PHE	607	9.767	59.538	35.942	1.00	0.00	C
ATOM	5767	CG	PHE	607	8.773	59.264	37.020	1.00	0.00	C
ATOM	5768	CD1	PHE	607	8.790	59.978	38.196	1.00	0.00	C
ATOM	5769	CD2	PHE	607	7.797	58.311	36.839	1.00	0.00	C

ATOM	5770	CE1	PHE	607	7.863	59.730	39.181	1.00	0.00	C
ATOM	5771	CE2	PHE	607	6.869	58.058	37.821	1.00	0.00	C
ATOM	5772	CZ	PHE	607	6.902	58.765	38.997	1.00	0.00	C
ATOM	5773	C	PHE	607	7.964	60.641	34.630	1.00	0.00	C
ATOM	5774	O	PHE	607	6.984	60.480	35.356	1.00	0.00	O
ATOM	5775	N	TRP	608	7.847	60.747	33.287	1.00	0.00	N
ATOM	5776	HN	TRP	608	8.673	61.049	32.770	1.00	0.00	H
ATOM	5777	CA	TRP	608	6.654	60.470	32.519	1.00	0.00	C
ATOM	5778	CB	TRP	608	6.098	59.052	32.748	1.00	0.00	C
ATOM	5779	CG	TRP	608	7.045	57.918	32.426	1.00	0.00	C
ATOM	5780	CD2	TRP	608	7.792	57.792	31.205	1.00	0.00	C
ATOM	5781	CD1	TRP	608	7.399	56.854	33.203	1.00	0.00	C
ATOM	5782	NE1	TRP	608	8.296	56.057	32.533	1.00	0.00	N
ATOM	5783	HE1	TRP	608	8.703	55.191	32.885	1.00	0.00	H
ATOM	5784	CE2	TRP	608	8.553	56.626	31.305	1.00	0.00	C
ATOM	5785	CE3	TRP	608	7.847	58.585	30.098	1.00	0.00	C
ATOM	5786	CZ2	TRP	608	9.379	56.233	30.291	1.00	0.00	C
ATOM	5787	CZ3	TRP	608	8.676	58.180	29.075	1.00	0.00	C
ATOM	5788	CH2	TRP	608	9.427	57.026	29.167	1.00	0.00	C
ATOM	5789	C	TRP	608	5.566	61.432	32.910	1.00	0.00	C
ATOM	5790	O	TRP	608	4.481	61.422	32.328	1.00	0.00	O
ATOM	5791	N	ARG	609	5.838	62.314	33.888	1.00	0.00	N
ATOM	5792	HN	ARG	609	6.780	62.340	34.278	1.00	0.00	H
ATOM	5793	CA	ARG	609	4.854	63.218	34.401	1.00	0.00	C
ATOM	5794	CB	ARG	609	5.408	64.018	35.591	1.00	0.00	C
ATOM	5795	CG	ARG	609	4.422	64.985	36.249	1.00	0.00	C
ATOM	5796	CD	ARG	609	5.063	65.788	37.386	1.00	0.00	C
ATOM	5797	NE	ARG	609	4.027	66.692	37.960	1.00	0.00	N
ATOM	5798	HE	ARG	609	3.043	66.537	37.742	1.00	0.00	H
ATOM	5799	CZ	ARG	609	4.385	67.726	38.775	1.00	0.00	C
ATOM	5800	NH1	ARG	609	5.704	67.984	39.029	1.00	0.00	N
ATOM	5801	1HH1	ARG	609	5.972	68.757	39.638	1.00	0.00	H
ATOM	5802	2HH1	ARG	609	6.428	67.405	38.604	1.00	0.00	H
ATOM	5803	NH2	ARG	609	3.417	68.501	39.344	1.00	0.00	N
ATOM	5804	1HH2	ARG	609	3.685	69.274	39.953	1.00	0.00	H
ATOM	5805	2HH2	ARG	609	2.433	68.309	39.155	1.00	0.00	H
ATOM	5806	C	ARG	609	4.505	64.194	33.336	1.00	0.00	C
ATOM	5807	O	ARG	609	3.336	64.466	33.072	1.00	0.00	O
ATOM	5808	N	ILE	610	5.547	64.716	32.675	1.00	0.00	N
ATOM	5809	HN	ILE	610	6.483	64.394	32.921	1.00	0.00	H
ATOM	5810	CA	ILE	610	5.421	65.695	31.648	1.00	0.00	C
ATOM	5811	CB	ILE	610	6.729	66.178	31.086	1.00	0.00	C
ATOM	5812	CG1	ILE	610	7.473	65.053	30.344	1.00	0.00	C
ATOM	5813	CG2	ILE	610	7.526	66.801	32.246	1.00	0.00	C
ATOM	5814	CD1	ILE	610	7.912	63.903	31.244	1.00	0.00	C
ATOM	5815	C	ILE	610	4.666	65.067	30.542	1.00	0.00	C
ATOM	5816	O	ILE	610	4.179	65.789	29.683	1.00	0.00	O
ATOM	5817	N	MET	611	4.725	63.726	30.409	1.00	0.00	N
ATOM	5818	HN	MET	611	5.352	63.178	30.998	1.00	0.00	H
ATOM	5819	CA	MET	611	3.897	63.075	29.429	1.00	0.00	C
ATOM	5820	CB	MET	611	4.195	61.577	29.257	1.00	0.00	C
ATOM	5821	CG	MET	611	3.372	60.952	28.127	1.00	0.00	C
ATOM	5822	SD	MET	611	3.653	59.176	27.859	1.00	0.00	S
ATOM	5823	CE	MET	611	2.956	59.154	26.182	1.00	0.00	C
ATOM	5824	C	MET	611	2.467	63.178	29.878	1.00	0.00	C
ATOM	5825	O	MET	611	1.571	63.478	29.090	1.00	0.00	O
ATOM	5826	N	LYS	612	2.217	62.940	31.183	1.00	0.00	N
ATOM	5827	HN	LYS	612	2.991	62.765	31.823	1.00	0.00	H
ATOM	5828	CA	LYS	612	0.865	62.932	31.677	1.00	0.00	C
ATOM	5829	CB	LYS	612	0.792	62.706	33.198	1.00	0.00	C
ATOM	5830	CG	LYS	612	1.628	61.539	33.725	1.00	0.00	C
ATOM	5831	CD	LYS	612	1.260	60.152	33.201	1.00	0.00	C
ATOM	5832	CE	LYS	612	2.209	59.081	33.748	1.00	0.00	C
ATOM	5833	NZ	LYS	612	1.684	57.727	33.479	1.00	0.00	N
ATOM	5834	HZ1	LYS	612	2.316	57.014	33.843	1.00	0.00	H
ATOM	5835	HZ2	LYS	612	1.490	57.588	32.487	1.00	0.00	H
ATOM	5836	HZ3	LYS	612	0.737	57.611	33.839	1.00	0.00	H
ATOM	5837	C	LYS	612	0.328	64.306	31.482	1.00	0.00	C
ATOM	5838	O	LYS	612	-0.714	64.526	30.866	1.00	0.00	O
ATOM	5839	N	LEU	613	1.101	65.273	31.992	1.00	0.00	N
ATOM	5840	HN	LEU	613	1.960	64.991	32.464	1.00	0.00	H
ATOM	5841	CA	LEU	613	0.811	66.668	31.924	1.00	0.00	C
ATOM	5842	CB	LEU	613	1.853	67.538	32.652	1.00	0.00	C
ATOM	5843	CG	LEU	613	1.792	67.460	34.189	1.00	0.00	C

ATOM	5844	CD1	LEU	613	2.891	68.317	34.834	1.00	0.00	C
ATOM	5845	CD2	LEU	613	0.395	67.849	34.700	1.00	0.00	C
ATOM	5846	C	LEU	613	0.869	67.039	30.488	1.00	0.00	C
ATOM	5847	O	LEU	613	0.255	68.018	30.075	1.00	0.00	O
ATOM	5848	N	ASN	614	1.644	66.273	29.698	1.00	0.00	N
ATOM	5849	HN	ASN	614	2.096	65.446	30.088	1.00	0.00	H
ATOM	5850	CA	ASN	614	1.845	66.601	28.314	1.00	0.00	C
ATOM	5851	CB	ASN	614	2.557	65.491	27.522	1.00	0.00	C
ATOM	5852	CG	ASN	614	3.152	66.082	26.260	1.00	0.00	C
ATOM	5853	OD1	ASN	614	3.103	67.292	26.045	1.00	0.00	O
ATOM	5854	ND2	ASN	614	3.733	65.200	25.402	1.00	0.00	N
ATOM	5855	1HD2	ASN	614	4.134	65.598	24.552	1.00	0.00	H
ATOM	5856	2HD2	ASN	614	3.774	64.197	25.580	1.00	0.00	H
ATOM	5857	C	ASN	614	0.490	66.695	27.720	1.00	0.00	C
ATOM	5858	O	ASN	614	0.067	67.755	27.270	1.00	0.00	O
ATOM	5859	N	LEU	615	-0.279	65.613	27.867	1.00	0.00	N
ATOM	5860	HN	LEU	615	0.093	64.810	28.375	1.00	0.00	H
ATOM	5861	CA	LEU	615	-1.604	65.541	27.338	1.00	0.00	C
ATOM	5862	CB	LEU	615	-2.315	64.229	27.712	1.00	0.00	C
ATOM	5863	CG	LEU	615	-3.809	64.215	27.339	1.00	0.00	C
ATOM	5864	CD1	LEU	615	-4.005	64.294	25.819	1.00	0.00	C
ATOM	5865	CD2	LEU	615	-4.547	63.031	27.986	1.00	0.00	C
ATOM	5866	C	LEU	615	-2.418	66.638	27.948	1.00	0.00	C
ATOM	5867	O	LEU	615	-3.314	67.161	27.293	1.00	0.00	O
ATOM	5868	N	THR	616	-2.180	67.010	29.223	1.00	0.00	N
ATOM	5869	HN	THR	616	-1.445	66.579	29.784	1.00	0.00	H
ATOM	5870	CA	THR	616	-3.026	68.051	29.744	1.00	0.00	C
ATOM	5871	CB	THR	616	-2.857	68.369	31.212	1.00	0.00	C
ATOM	5872	OG1	THR	616	-1.626	69.017	31.491	1.00	0.00	O
ATOM	5873	HG1	THR	616	-1.520	69.217	32.414	1.00	0.00	H
ATOM	5874	CG2	THR	616	-2.966	67.051	31.997	1.00	0.00	C
ATOM	5875	C	THR	616	-2.750	69.280	28.938	1.00	0.00	C
ATOM	5876	O	THR	616	-3.643	70.058	28.608	1.00	0.00	O
ATOM	5877	N	GLU	617	-1.472	69.435	28.573	1.00	0.00	N
ATOM	5878	HN	GLU	617	-0.819	68.726	28.908	1.00	0.00	H
ATOM	5879	CA	GLU	617	-0.914	70.477	27.769	1.00	0.00	C
ATOM	5880	CB	GLU	617	0.628	70.437	27.696	1.00	0.00	C
ATOM	5881	CG	GLU	617	1.346	70.448	29.050	1.00	0.00	C
ATOM	5882	CD	GLU	617	0.639	71.415	29.981	1.00	0.00	C
ATOM	5883	OE1	GLU	617	0.368	72.567	29.551	1.00	0.00	O
ATOM	5884	OE2	GLU	617	0.362	71.011	31.141	1.00	0.00	O
ATOM	5885	C	GLU	617	-1.407	70.267	26.377	1.00	0.00	C
ATOM	5886	O	GLU	617	-0.887	70.881	25.453	1.00	0.00	O
ATOM	5887	N	TRP	618	-2.287	69.269	26.151	1.00	0.00	N
ATOM	5888	HN	TRP	618	-2.694	68.738	26.921	1.00	0.00	H
ATOM	5889	CA	TRP	618	-2.628	68.984	24.788	1.00	0.00	C
ATOM	5890	CB	TRP	618	-1.805	67.756	24.378	1.00	0.00	C
ATOM	5891	CG	TRP	618	-1.797	67.318	22.945	1.00	0.00	C
ATOM	5892	CD2	TRP	618	-2.196	66.004	22.534	1.00	0.00	C
ATOM	5893	CD1	TRP	618	-1.315	67.945	21.837	1.00	0.00	C
ATOM	5894	NE1	TRP	618	-1.374	67.096	20.757	1.00	0.00	N
ATOM	5895	HE1	TRP	618	-1.071	67.316	19.808	1.00	0.00	H
ATOM	5896	CE2	TRP	618	-1.912	65.897	21.175	1.00	0.00	C
ATOM	5897	CE3	TRP	618	-2.721	64.965	23.243	1.00	0.00	C
ATOM	5898	CZ2	TRP	618	-2.148	64.733	20.502	1.00	0.00	C
ATOM	5899	CZ3	TRP	618	-2.994	63.806	22.553	1.00	0.00	C
ATOM	5900	CH2	TRP	618	-2.712	63.694	21.209	1.00	0.00	C
ATOM	5901	C	TRP	618	-4.101	68.714	24.595	1.00	0.00	C
ATOM	5902	O	TRP	618	-4.722	67.973	25.355	1.00	0.00	O
ATOM	5903	N	PRO	619	-4.712	69.391	23.646	1.00	0.00	N
ATOM	5904	CA	PRO	619	-6.071	69.118	23.239	1.00	0.00	C
ATOM	5905	CD	PRO	619	-4.263	70.702	23.222	1.00	0.00	C
ATOM	5906	CB	PRO	619	-6.502	70.306	22.378	1.00	0.00	C
ATOM	5907	CG	PRO	619	-5.187	71.039	22.043	1.00	0.00	C
ATOM	5908	C	PRO	619	-6.245	67.777	22.579	1.00	0.00	C
ATOM	5909	O	PRO	619	-6.828	66.881	23.188	1.00	0.00	O
ATOM	5910	N	TYR	620	-5.781	67.634	21.311	1.00	0.00	N
ATOM	5911	HN	TYR	620	-5.443	68.458	20.813	1.00	0.00	H
ATOM	5912	CA	TYR	620	-5.750	66.355	20.645	1.00	0.00	C
ATOM	5913	CB	TYR	620	-7.095	65.605	20.624	1.00	0.00	C
ATOM	5914	CG	TYR	620	-8.027	66.272	19.681	1.00	0.00	C
ATOM	5915	CD1	TYR	620	-8.024	65.913	18.354	1.00	0.00	C
ATOM	5916	CD2	TYR	620	-8.901	67.241	20.115	1.00	0.00	C
ATOM	5917	CE1	TYR	620	-8.881	66.514	17.465	1.00	0.00	C

ATOM	5918	CE2	TYR	620	-9.762	67.846	19.229	1.00	0.00	C
ATOM	5919	CZ	TYR	620	-9.752	67.481	17.904	1.00	0.00	C
ATOM	5920	OH	TYR	620	-10.634	68.099	16.994	1.00	0.00	O
ATOM	5921	HH	TYR	620	-10.627	67.847	16.078	1.00	0.00	H
ATOM	5922	C	TYR	620	-5.248	66.544	19.233	1.00	0.00	C
ATOM	5923	O	TYR	620	-5.657	67.465	18.527	1.00	0.00	O
ATOM	5924	N	PHE	621	-4.198	65.782	18.878	1.00	0.00	N
ATOM	5925	HN	PHE	621	-3.818	65.203	19.627	1.00	0.00	H
ATOM	5926	CA	PHE	621	-3.526	65.651	17.617	1.00	0.00	C
ATOM	5927	CB	PHE	621	-2.144	66.295	17.516	1.00	0.00	C
ATOM	5928	CG	PHE	621	-2.542	67.727	17.426	1.00	0.00	C
ATOM	5929	CD1	PHE	621	-3.644	68.060	16.669	1.00	0.00	C
ATOM	5930	CD2	PHE	621	-1.910	68.716	18.139	1.00	0.00	C
ATOM	5931	CE1	PHE	621	-4.071	69.360	16.562	1.00	0.00	C
ATOM	5932	CE2	PHE	621	-2.330	70.023	18.036	1.00	0.00	C
ATOM	5933	CZ	PHE	621	-3.404	70.345	17.244	1.00	0.00	C
ATOM	5934	C	PHE	621	-3.573	64.378	16.853	1.00	0.00	C
ATOM	5935	O	PHE	621	-2.658	64.209	16.051	1.00	0.00	O
ATOM	5936	N	VAL	622	-4.455	63.404	17.148	1.00	0.00	N
ATOM	5937	HN	VAL	622	-5.205	63.603	17.811	1.00	0.00	H
ATOM	5938	CA	VAL	622	-4.377	62.089	16.560	1.00	0.00	C
ATOM	5939	CB	VAL	622	-5.605	61.263	16.805	1.00	0.00	C
ATOM	5940	CG1	VAL	622	-6.804	61.948	16.129	1.00	0.00	C
ATOM	5941	CG2	VAL	622	-5.339	59.835	16.297	1.00	0.00	C
ATOM	5942	C	VAL	622	-4.176	62.192	15.077	1.00	0.00	C
ATOM	5943	O	VAL	622	-3.565	61.320	14.461	1.00	0.00	O
ATOM	5944	N	VAL	623	-4.661	63.281	14.460	1.00	0.00	N
ATOM	5945	HN	VAL	623	-5.155	63.989	15.003	1.00	0.00	H
ATOM	5946	CA	VAL	623	-4.493	63.460	13.050	1.00	0.00	C
ATOM	5947	CB	VAL	623	-5.088	64.769	12.595	1.00	0.00	C
ATOM	5948	CG1	VAL	623	-6.510	64.803	13.166	1.00	0.00	C
ATOM	5949	CG2	VAL	623	-4.250	65.984	13.030	1.00	0.00	C
ATOM	5950	C	VAL	623	-3.020	63.430	12.721	1.00	0.00	C
ATOM	5951	O	VAL	623	-2.602	62.741	11.791	1.00	0.00	O
ATOM	5952	N	GLY	624	-2.176	64.151	13.486	1.00	0.00	N
ATOM	5953	HN	GLY	624	-2.532	64.675	14.285	1.00	0.00	H
ATOM	5954	CA	GLY	624	-0.781	64.180	13.175	1.00	0.00	C
ATOM	5955	C	GLY	624	-0.235	62.797	13.286	1.00	0.00	C
ATOM	5956	O	GLY	624	0.359	62.289	12.338	1.00	0.00	O
ATOM	5957	N	VAL	625	-0.495	62.111	14.414	1.00	0.00	N
ATOM	5958	HN	VAL	625	-1.091	62.512	15.138	1.00	0.00	H
ATOM	5959	CA	VAL	625	0.078	60.808	14.583	1.00	0.00	C
ATOM	5960	CB	VAL	625	-0.248	60.152	15.896	1.00	0.00	C
ATOM	5961	CG1	VAL	625	0.344	61.000	17.032	1.00	0.00	C
ATOM	5962	CG2	VAL	625	-1.763	59.943	16.001	1.00	0.00	C
ATOM	5963	C	VAL	625	-0.440	59.948	13.475	1.00	0.00	C
ATOM	5964	O	VAL	625	0.230	59.010	13.048	1.00	0.00	O
ATOM	5965	N	PHE	626	-1.654	60.251	12.975	1.00	0.00	N
ATOM	5966	HN	PHE	626	-2.174	61.052	13.334	1.00	0.00	H
ATOM	5967	CA	PHE	626	-2.207	59.435	11.932	1.00	0.00	C
ATOM	5968	CB	PHE	626	-3.621	59.857	11.496	1.00	0.00	C
ATOM	5969	CG	PHE	626	-4.185	58.718	10.708	1.00	0.00	C
ATOM	5970	CD1	PHE	626	-3.832	58.509	9.394	1.00	0.00	C
ATOM	5971	CD2	PHE	626	-5.080	57.851	11.295	1.00	0.00	C
ATOM	5972	CE1	PHE	626	-4.357	57.454	8.682	1.00	0.00	C
ATOM	5973	CE2	PHE	626	-5.609	56.796	10.589	1.00	0.00	C
ATOM	5974	CZ	PHE	626	-5.248	56.595	9.278	1.00	0.00	C
ATOM	5975	C	PHE	626	-1.330	59.488	10.711	1.00	0.00	C
ATOM	5976	O	PHE	626	-0.906	58.452	10.203	1.00	0.00	O
ATOM	5977	N	CYS	627	-0.985	60.696	10.221	1.00	0.00	N
ATOM	5978	HN	CYS	627	-1.294	61.545	10.694	1.00	0.00	H
ATOM	5979	CA	CYS	627	-0.181	60.788	9.032	1.00	0.00	C
ATOM	5980	CB	CYS	627	-0.022	62.233	8.513	1.00	0.00	C
ATOM	5981	SG	CYS	627	0.739	63.366	9.712	1.00	0.00	S
ATOM	5982	C	CYS	627	1.161	60.208	9.346	1.00	0.00	C
ATOM	5983	O	CYS	627	1.859	59.720	8.457	1.00	0.00	O
ATOM	5984	N	ALA	628	1.550	60.238	10.638	1.00	0.00	N
ATOM	5985	HN	ALA	628	0.928	60.628	11.346	1.00	0.00	H
ATOM	5986	CA	ALA	628	2.833	59.725	11.022	1.00	0.00	C
ATOM	5987	CB	ALA	628	3.041	59.741	12.545	1.00	0.00	C
ATOM	5988	C	ALA	628	2.865	58.312	10.572	1.00	0.00	C
ATOM	5989	O	ALA	628	3.825	57.875	9.937	1.00	0.00	O
ATOM	5990	N	ILE	629	1.764	57.585	10.813	1.00	0.00	N
ATOM	5991	HN	ILE	629	0.957	58.006	11.273	1.00	0.00	H

ATOM	5992	CA	ILE	629	1.738	56.214	10.416	1.00	0.00	C
ATOM	5993	CB	ILE	629	0.450	55.526	10.786	1.00	0.00	C
ATOM	5994	CG1	ILE	629	0.208	55.676	12.297	1.00	0.00	C
ATOM	5995	CG2	ILE	629	0.533	54.059	10.323	1.00	0.00	C
ATOM	5996	CD1	ILE	629	1.392	55.209	13.140	1.00	0.00	C
ATOM	5997	C	ILE	629	1.892	56.162	8.922	1.00	0.00	C
ATOM	5998	O	ILE	629	2.679	55.368	8.410	1.00	0.00	O
ATOM	5999	N	ILE	630	1.182	57.036	8.173	1.00	0.00	N
ATOM	6000	HN	ILE	630	0.630	57.765	8.625	1.00	0.00	H
ATOM	6001	CA	ILE	630	1.207	56.935	6.735	1.00	0.00	C
ATOM	6002	CB	ILE	630	0.214	57.828	6.023	1.00	0.00	C
ATOM	6003	CG1	ILE	630	0.573	59.323	6.073	1.00	0.00	C
ATOM	6004	CG2	ILE	630	-1.164	57.524	6.633	1.00	0.00	C
ATOM	6005	CD1	ILE	630	1.616	59.739	5.033	1.00	0.00	C
ATOM	6006	C	ILE	630	2.578	57.211	6.202	1.00	0.00	C
ATOM	6007	O	ILE	630	3.040	56.505	5.304	1.00	0.00	O
ATOM	6008	N	ASN	631	3.282	58.231	6.742	1.00	0.00	N
ATOM	6009	HN	ASN	631	2.932	58.765	7.537	1.00	0.00	H
ATOM	6010	CA	ASN	631	4.547	58.521	6.136	1.00	0.00	C
ATOM	6011	CB	ASN	631	5.253	59.839	6.539	1.00	0.00	C
ATOM	6012	CG	ASN	631	5.972	59.800	7.873	1.00	0.00	C
ATOM	6013	OD1	ASN	631	5.790	58.899	8.686	1.00	0.00	O
ATOM	6014	ND2	ASN	631	6.837	60.827	8.095	1.00	0.00	N
ATOM	6015	1HD2	ASN	631	7.321	60.801	8.993	1.00	0.00	H
ATOM	6016	2HD2	ASN	631	6.988	61.576	7.419	1.00	0.00	H
ATOM	6017	C	ASN	631	5.429	57.343	6.328	1.00	0.00	C
ATOM	6018	O	ASN	631	6.258	57.032	5.471	1.00	0.00	O
ATOM	6019	N	GLY	632	5.236	56.626	7.450	1.00	0.00	N
ATOM	6020	HN	GLY	632	4.531	56.898	8.135	1.00	0.00	H
ATOM	6021	CA	GLY	632	6.047	55.478	7.647	1.00	0.00	C
ATOM	6022	C	GLY	632	5.818	54.535	6.509	1.00	0.00	C
ATOM	6023	O	GLY	632	6.768	54.102	5.866	1.00	0.00	O
ATOM	6024	N	GLY	633	4.549	54.252	6.169	1.00	0.00	N
ATOM	6025	HN	GLY	633	3.784	54.709	6.665	1.00	0.00	H
ATOM	6026	CA	GLY	633	4.249	53.316	5.118	1.00	0.00	C
ATOM	6027	C	GLY	633	4.846	53.815	3.840	1.00	0.00	C
ATOM	6028	O	GLY	633	5.299	53.042	2.995	1.00	0.00	O
ATOM	6029	N	LEU	634	4.881	55.145	3.680	1.00	0.00	N
ATOM	6030	HN	LEU	634	4.576	55.747	4.445	1.00	0.00	H
ATOM	6031	CA	LEU	634	5.336	55.740	2.462	1.00	0.00	C
ATOM	6032	CB	LEU	634	5.371	57.274	2.587	1.00	0.00	C
ATOM	6033	CG	LEU	634	5.675	58.038	1.287	1.00	0.00	C
ATOM	6034	CD1	LEU	634	4.557	57.836	0.251	1.00	0.00	C
ATOM	6035	CD2	LEU	634	5.938	59.525	1.582	1.00	0.00	C
ATOM	6036	C	LEU	634	6.732	55.242	2.198	1.00	0.00	C
ATOM	6037	O	LEU	634	7.093	54.963	1.053	1.00	0.00	O
ATOM	6038	N	GLN	635	7.556	55.119	3.260	1.00	0.00	N
ATOM	6039	HN	GLN	635	7.207	55.342	4.192	1.00	0.00	H
ATOM	6040	CA	GLN	635	8.918	54.679	3.104	1.00	0.00	C
ATOM	6041	CB	GLN	635	9.709	54.797	4.423	1.00	0.00	C
ATOM	6042	CG	GLN	635	11.165	54.343	4.331	1.00	0.00	C
ATOM	6043	CD	GLN	635	11.981	55.506	3.801	1.00	0.00	C
ATOM	6044	OE1	GLN	635	11.712	56.663	4.121	1.00	0.00	O
ATOM	6045	NE2	GLN	635	13.008	55.196	2.966	1.00	0.00	N
ATOM	6046	1HE2	GLN	635	13.231	54.237	2.701	1.00	0.00	H
ATOM	6047	2HE2	GLN	635	13.557	55.978	2.609	1.00	0.00	H
ATOM	6048	C	GLN	635	8.990	53.262	2.591	1.00	0.00	C
ATOM	6049	O	GLN	635	9.595	53.054	1.537	1.00	0.00	O
ATOM	6050	N	PRO	636	8.368	52.270	3.199	1.00	0.00	N
ATOM	6051	CA	PRO	636	8.509	50.975	2.600	1.00	0.00	C
ATOM	6052	CD	PRO	636	8.329	52.137	4.646	1.00	0.00	C
ATOM	6053	CB	PRO	636	7.939	49.982	3.604	1.00	0.00	C
ATOM	6054	CG	PRO	636	8.290	50.632	4.952	1.00	0.00	C
ATOM	6055	C	PRO	636	7.906	50.925	1.230	1.00	0.00	C
ATOM	6056	O	PRO	636	8.331	50.112	0.410	1.00	0.00	O
ATOM	6057	N	ALA	637	6.941	51.812	0.944	1.00	0.00	N
ATOM	6058	HN	ALA	637	6.659	52.498	1.645	1.00	0.00	H
ATOM	6059	CA	ALA	637	6.302	51.802	-0.344	1.00	0.00	C
ATOM	6060	CB	ALA	637	5.247	52.911	-0.495	1.00	0.00	C
ATOM	6061	C	ALA	637	7.344	52.037	-1.393	1.00	0.00	C
ATOM	6062	O	ALA	637	7.352	51.386	-2.438	1.00	0.00	O
ATOM	6063	N	PHE	638	8.279	52.961	-1.125	1.00	0.00	N
ATOM	6064	HN	PHE	638	8.261	53.453	-0.231	1.00	0.00	H
ATOM	6065	CA	PHE	638	9.303	53.265	-2.080	1.00	0.00	C

ATOM	6066	CB	PHE	638	10.285	54.345	-1.610	1.00	0.00	C
ATOM	6067	CG	PHE	638	11.469	54.221	-2.506	1.00	0.00	C
ATOM	6068	CD1	PHE	638	11.456	54.711	-3.792	1.00	0.00	C
ATOM	6069	CD2	PHE	638	12.604	53.596	-2.044	1.00	0.00	C
ATOM	6070	CE1	PHE	638	12.563	54.578	-4.599	1.00	0.00	C
ATOM	6071	CE2	PHE	638	13.713	53.461	-2.844	1.00	0.00	C
ATOM	6072	CZ	PHE	638	13.692	53.953	-4.127	1.00	0.00	C
ATOM	6073	C	PHE	638	10.100	52.053	-2.323	1.00	0.00	C
ATOM	6074	O	PHE	638	10.530	51.783	-3.446	1.00	0.00	O
ATOM	6075	N	ALA	639	10.298	51.287	-1.248	1.00	0.00	N
ATOM	6076	HN	ALA	639	9.865	51.537	-0.359	1.00	0.00	H
ATOM	6077	CA	ALA	639	11.107	50.129	-1.339	1.00	0.00	C
ATOM	6078	CB	ALA	639	11.028	49.390	-0.011	1.00	0.00	C
ATOM	6079	C	ALA	639	10.547	49.254	-2.440	1.00	0.00	C
ATOM	6080	O	ALA	639	11.293	48.769	-3.291	1.00	0.00	O
ATOM	6081	N	ILE	640	9.213	49.056	-2.479	1.00	0.00	N
ATOM	6082	HN	ILE	640	8.625	49.502	-1.775	1.00	0.00	H
ATOM	6083	CA	ILE	640	8.594	48.228	-3.492	1.00	0.00	C
ATOM	6084	CB	ILE	640	7.190	47.799	-3.160	1.00	0.00	C
ATOM	6085	CG1	ILE	640	6.773	46.639	-4.082	1.00	0.00	C
ATOM	6086	CG2	ILE	640	6.258	49.016	-3.264	1.00	0.00	C
ATOM	6087	CD1	ILE	640	5.458	45.966	-3.690	1.00	0.00	C
ATOM	6088	C	ILE	640	8.557	48.844	-4.865	1.00	0.00	C
ATOM	6089	O	ILE	640	8.813	48.165	-5.860	1.00	0.00	O
ATOM	6090	N	ILE	641	8.235	50.147	-4.970	1.00	0.00	N
ATOM	6091	HN	ILE	641	8.130	50.720	-4.133	1.00	0.00	H
ATOM	6092	CA	ILE	641	8.041	50.723	-6.273	1.00	0.00	C
ATOM	6093	CB	ILE	641	7.646	52.176	-6.211	1.00	0.00	C
ATOM	6094	CG1	ILE	641	7.149	52.657	-7.580	1.00	0.00	C
ATOM	6095	CG2	ILE	641	8.815	52.994	-5.643	1.00	0.00	C
ATOM	6096	CD1	ILE	641	5.828	52.014	-7.981	1.00	0.00	C
ATOM	6097	C	ILE	641	9.312	50.574	-7.053	1.00	0.00	C
ATOM	6098	O	ILE	641	9.286	50.214	-8.230	1.00	0.00	O
ATOM	6099	N	PHE	642	10.457	50.837	-6.399	1.00	0.00	N
ATOM	6100	HN	PHE	642	10.405	51.139	-5.426	1.00	0.00	H
ATOM	6101	CA	PHE	642	11.749	50.712	-7.010	1.00	0.00	C
ATOM	6102	CB	PHE	642	12.858	51.180	-6.050	1.00	0.00	C
ATOM	6103	CG	PHE	642	14.181	50.669	-6.507	1.00	0.00	C
ATOM	6104	CD1	PHE	642	14.927	51.337	-7.450	1.00	0.00	C
ATOM	6105	CD2	PHE	642	14.676	49.500	-5.977	1.00	0.00	C
ATOM	6106	CE1	PHE	642	16.148	50.841	-7.851	1.00	0.00	C
ATOM	6107	CE2	PHE	642	15.894	49.001	-6.373	1.00	0.00	C
ATOM	6108	CZ	PHE	642	16.636	49.674	-7.313	1.00	0.00	C
ATOM	6109	C	PHE	642	12.007	49.293	-7.370	1.00	0.00	C
ATOM	6110	O	PHE	642	12.356	48.996	-8.513	1.00	0.00	O
ATOM	6111	N	SER	643	11.773	48.380	-6.408	1.00	0.00	N
ATOM	6112	HN	SER	643	11.387	48.683	-5.514	1.00	0.00	H
ATOM	6113	CA	SER	643	12.056	46.994	-6.617	1.00	0.00	C
ATOM	6114	CB	SER	643	11.559	46.104	-5.461	1.00	0.00	C
ATOM	6115	OG	SER	643	12.135	46.521	-4.234	1.00	0.00	O
ATOM	6116	HG	SER	643	11.829	45.972	-3.521	1.00	0.00	H
ATOM	6117	C	SER	643	11.282	46.581	-7.822	1.00	0.00	C
ATOM	6118	O	SER	643	11.745	45.764	-8.616	1.00	0.00	O
ATOM	6119	N	LYS	644	10.074	47.148	-7.991	1.00	0.00	N
ATOM	6120	HN	LYS	644	9.729	47.834	-7.320	1.00	0.00	H
ATOM	6121	CA	LYS	644	9.278	46.779	-9.122	1.00	0.00	C
ATOM	6122	CB	LYS	644	7.898	47.453	-9.168	1.00	0.00	C
ATOM	6123	CG	LYS	644	7.163	47.137	-10.474	1.00	0.00	C
ATOM	6124	CD	LYS	644	5.730	47.662	-10.553	1.00	0.00	C
ATOM	6125	CE	LYS	644	5.085	47.421	-11.920	1.00	0.00	C
ATOM	6126	NZ	LYS	644	5.889	48.067	-12.984	1.00	0.00	N
ATOM	6127	HZ1	LYS	644	5.459	47.906	-13.895	1.00	0.00	H
ATOM	6128	HZ2	LYS	644	6.863	47.765	-12.963	1.00	0.00	H
ATOM	6129	HZ3	LYS	644	6.036	49.060	-12.801	1.00	0.00	H
ATOM	6130	C	LYS	644	9.933	47.186	-10.401	1.00	0.00	C
ATOM	6131	O	LYS	644	10.090	46.360	-11.294	1.00	0.00	O
ATOM	6132	N	ILE	645	10.376	48.454	-10.521	1.00	0.00	N
ATOM	6133	HN	ILE	645	10.382	49.084	-9.719	1.00	0.00	H
ATOM	6134	CA	ILE	645	10.839	48.895	-11.806	1.00	0.00	C
ATOM	6135	CB	ILE	645	11.224	50.348	-11.850	1.00	0.00	C
ATOM	6136	CG1	ILE	645	11.581	50.742	-13.293	1.00	0.00	C
ATOM	6137	CG2	ILE	645	12.330	50.621	-10.816	1.00	0.00	C
ATOM	6138	CD1	ILE	645	11.714	52.248	-13.507	1.00	0.00	C
ATOM	6139	C	ILE	645	12.003	48.087	-12.241	1.00	0.00	C

ATOM	6140	O	ILE	645	11.995	47.526	-13.336	1.00	0.00	O
ATOM	6141	N	ILE	646	13.004	47.939	-11.364	1.00	0.00	N
ATOM	6142	HN	ILE	646	12.930	48.334	-10.426	1.00	0.00	H
ATOM	6143	CA	ILE	646	14.172	47.226	-11.752	1.00	0.00	C
ATOM	6144	CB	ILE	646	15.213	47.201	-10.667	1.00	0.00	C
ATOM	6145	CG1	ILE	646	16.552	46.679	-11.209	1.00	0.00	C
ATOM	6146	CG2	ILE	646	14.663	46.424	-9.460	1.00	0.00	C
ATOM	6147	CD1	ILE	646	17.723	46.945	-10.266	1.00	0.00	C
ATOM	6148	C	ILE	646	13.735	45.844	-12.093	1.00	0.00	C
ATOM	6149	O	ILE	646	14.089	45.346	-13.151	1.00	0.00	O
ATOM	6150	N	GLY	647	12.873	45.218	-11.274	1.00	0.00	N
ATOM	6151	HN	GLY	647	12.488	45.693	-10.457	1.00	0.00	H
ATOM	6152	CA	GLY	647	12.508	43.865	-11.578	1.00	0.00	C
ATOM	6153	C	GLY	647	11.831	43.794	-12.917	1.00	0.00	C
ATOM	6154	O	GLY	647	12.185	42.999	-13.785	1.00	0.00	O
ATOM	6155	N	VAL	648	10.865	44.689	-13.133	1.00	0.00	N
ATOM	6156	HN	VAL	648	10.707	45.380	-12.400	1.00	0.00	H
ATOM	6157	CA	VAL	648	10.028	44.776	-14.293	1.00	0.00	C
ATOM	6158	CB	VAL	648	9.050	45.915	-14.112	1.00	0.00	C
ATOM	6159	CG1	VAL	648	8.314	46.229	-15.415	1.00	0.00	C
ATOM	6160	CG2	VAL	648	8.087	45.537	-12.978	1.00	0.00	C
ATOM	6161	C	VAL	648	10.882	45.070	-15.490	1.00	0.00	C
ATOM	6162	O	VAL	648	10.424	44.994	-16.628	1.00	0.00	O
ATOM	6163	N	PHE	649	12.058	45.662	-15.259	1.00	0.00	N
ATOM	6164	HN	PHE	649	12.319	45.894	-14.301	1.00	0.00	H
ATOM	6165	CA	PHE	649	12.960	45.978	-16.324	1.00	0.00	C
ATOM	6166	CB	PHE	649	13.596	47.350	-16.063	1.00	0.00	C
ATOM	6167	CG	PHE	649	13.919	47.950	-17.378	1.00	0.00	C
ATOM	6168	CD1	PHE	649	12.935	48.616	-18.075	1.00	0.00	C
ATOM	6169	CD2	PHE	649	15.172	47.845	-17.922	1.00	0.00	C
ATOM	6170	CE1	PHE	649	13.192	49.187	-19.298	1.00	0.00	C
ATOM	6171	CE2	PHE	649	15.429	48.415	-19.143	1.00	0.00	C
ATOM	6172	CZ	PHE	649	14.450	49.087	-19.836	1.00	0.00	C
ATOM	6173	C	PHE	649	14.038	44.950	-16.545	1.00	0.00	C
ATOM	6174	O	PHE	649	14.630	44.872	-17.620	1.00	0.00	O
ATOM	6175	N	THR	650	14.425	44.250	-15.465	1.00	0.00	N
ATOM	6176	HN	THR	650	13.924	44.428	-14.595	1.00	0.00	H
ATOM	6177	CA	THR	650	15.479	43.275	-15.422	1.00	0.00	C
ATOM	6178	CB	THR	650	15.912	42.934	-14.027	1.00	0.00	C
ATOM	6179	OG1	THR	650	14.801	42.479	-13.269	1.00	0.00	O
ATOM	6180	HG1	THR	650	14.405	41.713	-13.667	1.00	0.00	H
ATOM	6181	CG2	THR	650	16.554	44.175	-13.383	1.00	0.00	C
ATOM	6182	C	THR	650	15.050	42.012	-16.088	1.00	0.00	C
ATOM	6183	O	THR	650	15.887	41.241	-16.562	1.00	0.00	O
ATOM	6184	N	ARG	651	13.737	41.712	-16.041	1.00	0.00	N
ATOM	6185	HN	ARG	651	13.084	42.316	-15.541	1.00	0.00	H
ATOM	6186	CA	ARG	651	13.273	40.528	-16.707	1.00	0.00	C
ATOM	6187	CB	ARG	651	13.457	39.293	-15.812	1.00	0.00	C
ATOM	6188	CG	ARG	651	12.764	39.478	-14.464	1.00	0.00	C
ATOM	6189	CD	ARG	651	13.086	38.433	-13.400	1.00	0.00	C
ATOM	6190	NE	ARG	651	11.985	38.563	-12.411	1.00	0.00	N
ATOM	6191	HE	ARG	651	11.677	39.491	-12.121	1.00	0.00	H
ATOM	6192	CZ	ARG	651	11.381	37.458	-11.886	1.00	0.00	C
ATOM	6193	NH1	ARG	651	11.918	36.219	-12.091	1.00	0.00	N
ATOM	6194	1HH1	ARG	651	11.466	35.393	-11.699	1.00	0.00	H
ATOM	6195	2HH1	ARG	651	12.786	36.111	-12.616	1.00	0.00	H
ATOM	6196	NH2	ARG	651	10.221	37.603	-11.184	1.00	0.00	N
ATOM	6197	1HH2	ARG	651	9.769	36.777	-10.792	1.00	0.00	H
ATOM	6198	2HH2	ARG	651	9.820	38.528	-11.031	1.00	0.00	H
ATOM	6199	C	ARG	651	11.814	40.692	-17.046	1.00	0.00	C
ATOM	6200	O	ARG	651	10.973	40.686	-16.148	1.00	0.00	O
ATOM	6201	N	ILE	652	11.480	40.855	-18.355	1.00	0.00	N
ATOM	6202	HN	ILE	652	12.225	40.862	-19.052	1.00	0.00	H
ATOM	6203	CA	ILE	652	10.111	41.019	-18.802	1.00	0.00	C
ATOM	6204	CB	ILE	652	9.459	42.357	-18.525	1.00	0.00	C
ATOM	6205	CG1	ILE	652	10.250	43.475	-19.227	1.00	0.00	C
ATOM	6206	CG2	ILE	652	9.208	42.566	-17.024	1.00	0.00	C
ATOM	6207	CD1	ILE	652	9.499	44.804	-19.319	1.00	0.00	C
ATOM	6208	C	ILE	652	10.057	40.993	-20.305	1.00	0.00	C
ATOM	6209	O	ILE	652	11.048	40.742	-20.987	1.00	0.00	O
ATOM	6210	N	ASP	653	8.844	41.275	-20.845	1.00	0.00	N
ATOM	6211	HN	ASP	653	8.060	41.427	-20.210	1.00	0.00	H
ATOM	6212	CA	ASP	653	8.598	41.372	-22.260	1.00	0.00	C
ATOM	6213	CB	ASP	653	7.110	41.331	-22.648	1.00	0.00	C

ATOM	6214	CG	ASP	653	7.043	41.190	-24.164	1.00	0.00	C
ATOM	6215	OD1	ASP	653	8.052	40.726	-24.759	1.00	0.00	O
ATOM	6216	OD2	ASP	653	5.986	41.548	-24.749	1.00	0.00	O
ATOM	6217	C	ASP	653	9.143	42.673	-22.774	1.00	0.00	C
ATOM	6218	O	ASP	653	9.107	43.698	-22.095	1.00	0.00	O
ATOM	6219	N	ASP	654	9.650	42.660	-24.022	1.00	0.00	N
ATOM	6220	HN	ASP	654	9.601	41.799	-24.567	1.00	0.00	H
ATOM	6221	CA	ASP	654	10.256	43.818	-24.607	1.00	0.00	C
ATOM	6222	CB	ASP	654	10.897	43.546	-25.985	1.00	0.00	C
ATOM	6223	CG	ASP	654	12.173	42.728	-25.824	1.00	0.00	C
ATOM	6224	OD1	ASP	654	12.698	42.641	-24.682	1.00	0.00	O
ATOM	6225	OD2	ASP	654	12.646	42.184	-26.858	1.00	0.00	O
ATOM	6226	C	ASP	654	9.252	44.909	-24.795	1.00	0.00	C
ATOM	6227	O	ASP	654	9.549	46.066	-24.499	1.00	0.00	O
ATOM	6228	N	PRO	655	8.074	44.612	-25.266	1.00	0.00	N
ATOM	6229	CA	PRO	655	7.151	45.684	-25.502	1.00	0.00	C
ATOM	6230	CD	PRO	655	7.879	43.512	-26.196	1.00	0.00	C
ATOM	6231	CB	PRO	655	6.077	45.121	-26.427	1.00	0.00	C
ATOM	6232	CG	PRO	655	6.801	43.992	-27.179	1.00	0.00	C
ATOM	6233	C	PRO	655	6.592	46.219	-24.232	1.00	0.00	C
ATOM	6234	O	PRO	655	6.441	45.467	-23.271	1.00	0.00	O
ATOM	6235	N	GLU	656	6.272	47.521	-24.236	1.00	0.00	N
ATOM	6236	HN	GLU	656	6.501	48.063	-25.069	1.00	0.00	H
ATOM	6237	CA	GLU	656	5.632	48.203	-23.155	1.00	0.00	C
ATOM	6238	CB	GLU	656	4.331	47.505	-22.735	1.00	0.00	C
ATOM	6239	CG	GLU	656	3.354	47.334	-23.903	1.00	0.00	C
ATOM	6240	CD	GLU	656	3.164	48.679	-24.594	1.00	0.00	C
ATOM	6241	OE1	GLU	656	2.650	49.621	-23.935	1.00	0.00	O
ATOM	6242	OE2	GLU	656	3.534	48.781	-25.794	1.00	0.00	O
ATOM	6243	C	GLU	656	6.548	48.293	-21.974	1.00	0.00	C
ATOM	6244	O	GLU	656	6.128	48.704	-20.892	1.00	0.00	O
ATOM	6245	N	THR	657	7.843	47.978	-22.166	1.00	0.00	N
ATOM	6246	HN	THR	657	8.145	47.623	-23.073	1.00	0.00	H
ATOM	6247	CA	THR	657	8.801	48.134	-21.117	1.00	0.00	C
ATOM	6248	CB	THR	657	10.190	47.723	-21.519	1.00	0.00	C
ATOM	6249	OG1	THR	657	10.610	48.459	-22.660	1.00	0.00	O
ATOM	6250	HG1	THR	657	11.488	48.199	-22.914	1.00	0.00	H
ATOM	6251	CG2	THR	657	10.212	46.215	-21.811	1.00	0.00	C
ATOM	6252	C	THR	657	8.839	49.600	-20.862	1.00	0.00	C
ATOM	6253	O	THR	657	9.067	50.046	-19.739	1.00	0.00	O
ATOM	6254	N	LYS	658	8.644	50.386	-21.937	1.00	0.00	N
ATOM	6255	HN	LYS	658	8.490	49.960	-22.851	1.00	0.00	H
ATOM	6256	CA	LYS	658	8.650	51.813	-21.815	1.00	0.00	C
ATOM	6257	CB	LYS	658	8.401	52.573	-23.132	1.00	0.00	C
ATOM	6258	CG	LYS	658	9.507	52.472	-24.185	1.00	0.00	C
ATOM	6259	CD	LYS	658	9.504	51.165	-24.977	1.00	0.00	C
ATOM	6260	CE	LYS	658	8.474	51.147	-26.110	1.00	0.00	C
ATOM	6261	NZ	LYS	658	7.104	51.049	-25.555	1.00	0.00	N
ATOM	6262	HZ1	LYS	658	6.418	51.037	-26.310	1.00	0.00	H
ATOM	6263	HZ2	LYS	658	6.913	51.788	-24.878	1.00	0.00	H
ATOM	6264	HZ3	LYS	658	7.001	50.247	-24.934	1.00	0.00	H
ATOM	6265	C	LYS	658	7.520	52.207	-20.929	1.00	0.00	C
ATOM	6266	O	LYS	658	7.673	53.064	-20.064	1.00	0.00	O
ATOM	6267	N	ARG	659	6.341	51.602	-21.147	1.00	0.00	N
ATOM	6268	HN	ARG	659	6.281	50.884	-21.869	1.00	0.00	H
ATOM	6269	CA	ARG	659	5.165	51.932	-20.398	1.00	0.00	C
ATOM	6270	CB	ARG	659	3.940	51.168	-20.924	1.00	0.00	C
ATOM	6271	CG	ARG	659	2.615	51.792	-20.506	1.00	0.00	C
ATOM	6272	CD	ARG	659	2.383	53.129	-21.206	1.00	0.00	C
ATOM	6273	NE	ARG	659	1.050	53.644	-20.799	1.00	0.00	N
ATOM	6274	HE	ARG	659	0.654	53.410	-19.888	1.00	0.00	H
ATOM	6275	CZ	ARG	659	0.369	54.438	-21.675	1.00	0.00	C
ATOM	6276	NH1	ARG	659	0.908	54.688	-22.904	1.00	0.00	N
ATOM	6277	1HH1	ARG	659	1.810	54.287	-23.163	1.00	0.00	H
ATOM	6278	2HH1	ARG	659	0.399	55.282	-23.559	1.00	0.00	H
ATOM	6279	NH2	ARG	659	-0.837	54.974	-21.329	1.00	0.00	N
ATOM	6280	1HH2	ARG	659	-1.240	54.787	-20.411	1.00	0.00	H
ATOM	6281	2HH2	ARG	659	-1.346	55.568	-21.984	1.00	0.00	H
ATOM	6282	C	ARG	659	5.370	51.517	-18.981	1.00	0.00	C
ATOM	6283	O	ARG	659	5.054	52.257	-18.050	1.00	0.00	O
ATOM	6284	N	GLN	660	5.922	50.304	-18.789	1.00	0.00	N
ATOM	6285	HN	GLN	660	6.205	49.748	-19.596	1.00	0.00	H
ATOM	6286	CA	GLN	660	6.118	49.783	-17.472	1.00	0.00	C
ATOM	6287	CB	GLN	660	6.754	48.383	-17.487	1.00	0.00	C

ATOM	6288	CG	GLN	660	5.934	47.344	-18.259	1.00	0.00	C
ATOM	6289	CD	GLN	660	4.589	47.170	-17.567	1.00	0.00	C
ATOM	6290	OE1	GLN	660	4.519	46.863	-16.378	1.00	0.00	O
ATOM	6291	NE2	GLN	660	3.485	47.376	-18.335	1.00	0.00	N
ATOM	6292	1HE2	GLN	660	3.543	47.631	-19.321	1.00	0.00	H
ATOM	6293	2HE2	GLN	660	2.584	47.259	-17.871	1.00	0.00	H
ATOM	6294	C	GLN	660	7.075	50.692	-16.792	1.00	0.00	C
ATOM	6295	O	GLN	660	6.866	51.098	-15.648	1.00	0.00	O
ATOM	6296	N	ASN	661	8.158	51.051	-17.501	1.00	0.00	N
ATOM	6297	HN	ASN	661	8.289	50.725	-18.459	1.00	0.00	H
ATOM	6298	CA	ASN	661	9.117	51.898	-16.880	1.00	0.00	C
ATOM	6299	CB	ASN	661	10.334	52.155	-17.777	1.00	0.00	C
ATOM	6300	CG	ASN	661	11.489	52.543	-16.869	1.00	0.00	C
ATOM	6301	OD1	ASN	661	11.452	53.572	-16.197	1.00	0.00	O
ATOM	6302	ND2	ASN	661	12.546	51.688	-16.843	1.00	0.00	N
ATOM	6303	1HD2	ASN	661	13.321	51.948	-16.234	1.00	0.00	H
ATOM	6304	2HD2	ASN	661	12.577	50.834	-17.400	1.00	0.00	H
ATOM	6305	C	ASN	661	8.458	53.200	-16.575	1.00	0.00	C
ATOM	6306	O	ASN	661	8.206	53.498	-15.413	1.00	0.00	O
ATOM	6307	N	SER	662	7.991	53.909	-17.624	1.00	0.00	N
ATOM	6308	HN	SER	662	8.015	53.474	-18.546	1.00	0.00	H
ATOM	6309	CA	SER	662	7.462	55.241	-17.517	1.00	0.00	C
ATOM	6310	CB	SER	662	6.792	55.723	-18.817	1.00	0.00	C
ATOM	6311	OG	SER	662	7.743	55.805	-19.868	1.00	0.00	O
ATOM	6312	HG	SER	662	7.330	56.102	-20.670	1.00	0.00	H
ATOM	6313	C	SER	662	6.417	55.256	-16.455	1.00	0.00	C
ATOM	6314	O	SER	662	6.329	56.200	-15.673	1.00	0.00	O
ATOM	6315	N	ASN	663	5.606	54.193	-16.378	1.00	0.00	N
ATOM	6316	HN	ASN	663	5.713	53.409	-17.021	1.00	0.00	H
ATOM	6317	CA	ASN	663	4.589	54.181	-15.376	1.00	0.00	C
ATOM	6318	CB	ASN	663	3.688	52.945	-15.520	1.00	0.00	C
ATOM	6319	CG	ASN	663	2.579	53.034	-14.489	1.00	0.00	C
ATOM	6320	OD1	ASN	663	2.824	52.993	-13.284	1.00	0.00	O
ATOM	6321	ND2	ASN	663	1.319	53.163	-14.983	1.00	0.00	N
ATOM	6322	1HD2	ASN	663	1.116	53.197	-15.982	1.00	0.00	H
ATOM	6323	2HD2	ASN	663	0.573	53.223	-14.290	1.00	0.00	H
ATOM	6324	C	ASN	663	5.206	54.146	-14.014	1.00	0.00	C
ATOM	6325	O	ASN	663	5.033	55.054	-13.203	1.00	0.00	O
ATOM	6326	N	LEU	664	6.046	53.135	-13.769	1.00	0.00	N
ATOM	6327	HN	LEU	664	6.319	52.516	-14.532	1.00	0.00	H
ATOM	6328	CA	LEU	664	6.568	52.905	-12.461	1.00	0.00	C
ATOM	6329	CB	LEU	664	7.407	51.621	-12.490	1.00	0.00	C
ATOM	6330	CG	LEU	664	7.576	50.980	-11.115	1.00	0.00	C
ATOM	6331	CD1	LEU	664	8.375	51.887	-10.192	1.00	0.00	C
ATOM	6332	CD2	LEU	664	6.213	50.575	-10.529	1.00	0.00	C
ATOM	6333	C	LEU	664	7.373	54.119	-12.095	1.00	0.00	C
ATOM	6334	O	LEU	664	7.376	54.555	-10.944	1.00	0.00	O
ATOM	6335	N	PHE	665	8.059	54.717	-13.088	1.00	0.00	N
ATOM	6336	HN	PHE	665	8.014	54.315	-14.024	1.00	0.00	H
ATOM	6337	CA	PHE	665	8.851	55.897	-12.883	1.00	0.00	C
ATOM	6338	CB	PHE	665	9.499	56.302	-14.225	1.00	0.00	C
ATOM	6339	CG	PHE	665	9.317	57.742	-14.552	1.00	0.00	C
ATOM	6340	CD1	PHE	665	10.176	58.711	-14.098	1.00	0.00	C
ATOM	6341	CD2	PHE	665	8.261	58.114	-15.352	1.00	0.00	C
ATOM	6342	CE1	PHE	665	9.963	60.025	-14.443	1.00	0.00	C
ATOM	6343	CE2	PHE	665	8.042	59.423	-15.699	1.00	0.00	C
ATOM	6344	CZ	PHE	665	8.902	60.387	-15.240	1.00	0.00	C
ATOM	6345	C	PHE	665	7.998	56.987	-12.298	1.00	0.00	C
ATOM	6346	O	PHE	665	8.242	57.426	-11.176	1.00	0.00	O
ATOM	6347	N	SER	666	6.913	57.389	-12.979	1.00	0.00	N
ATOM	6348	HN	SER	666	6.671	56.946	-13.866	1.00	0.00	H
ATOM	6349	CA	SER	666	6.095	58.445	-12.453	1.00	0.00	C
ATOM	6350	CB	SER	666	4.899	58.793	-13.357	1.00	0.00	C
ATOM	6351	OG	SER	666	4.094	59.786	-12.737	1.00	0.00	O
ATOM	6352	HG	SER	666	3.356	60.001	-13.295	1.00	0.00	H
ATOM	6353	C	SER	666	5.535	57.990	-11.145	1.00	0.00	C
ATOM	6354	O	SER	666	5.390	58.771	-10.206	1.00	0.00	O
ATOM	6355	N	LEU	667	5.251	56.682	-11.039	1.00	0.00	N
ATOM	6356	HN	LEU	667	5.485	56.056	-11.810	1.00	0.00	H
ATOM	6357	CA	LEU	667	4.628	56.148	-9.868	1.00	0.00	C
ATOM	6358	CB	LEU	667	4.515	54.612	-9.933	1.00	0.00	C
ATOM	6359	CG	LEU	667	3.536	53.983	-8.920	1.00	0.00	C
ATOM	6360	CD1	LEU	667	3.781	54.453	-7.477	1.00	0.00	C
ATOM	6361	CD2	LEU	667	2.086	54.148	-9.392	1.00	0.00	C

ATOM	6362	C	LEU	667	5.535	56.461	-8.725	1.00	0.00	C
ATOM	6363	O	LEU	667	5.078	56.917	-7.677	1.00	0.00	O
ATOM	6364	N	LEU	668	6.857	56.251	-8.900	1.00	0.00	N
ATOM	6365	HN	LEU	668	7.231	55.920	-9.789	1.00	0.00	H
ATOM	6366	CA	LEU	668	7.711	56.514	-7.781	1.00	0.00	C
ATOM	6367	CB	LEU	668	9.230	56.278	-7.953	1.00	0.00	C
ATOM	6368	CG	LEU	668	9.719	54.829	-8.140	1.00	0.00	C
ATOM	6369	CD1	LEU	668	9.761	54.419	-9.616	1.00	0.00	C
ATOM	6370	CD2	LEU	668	11.048	54.598	-7.407	1.00	0.00	C
ATOM	6371	C	LEU	668	7.604	57.965	-7.443	1.00	0.00	C
ATOM	6372	O	LEU	668	7.545	58.330	-6.271	1.00	0.00	O
ATOM	6373	N	PHE	669	7.600	58.833	-8.471	1.00	0.00	N
ATOM	6374	HN	PHE	669	7.616	58.477	-9.427	1.00	0.00	H
ATOM	6375	CA	PHE	669	7.573	60.249	-8.248	1.00	0.00	C
ATOM	6376	CB	PHE	669	7.681	61.018	-9.578	1.00	0.00	C
ATOM	6377	CG	PHE	669	7.406	62.457	-9.325	1.00	0.00	C
ATOM	6378	CD1	PHE	669	8.370	63.261	-8.770	1.00	0.00	C
ATOM	6379	CD2	PHE	669	6.177	63.001	-9.622	1.00	0.00	C
ATOM	6380	CE1	PHE	669	8.122	64.591	-8.530	1.00	0.00	C
ATOM	6381	CE2	PHE	669	5.923	64.331	-9.384	1.00	0.00	C
ATOM	6382	CZ	PHE	669	6.897	65.130	-8.838	1.00	0.00	C
ATOM	6383	C	PHE	669	6.321	60.688	-7.565	1.00	0.00	C
ATOM	6384	O	PHE	669	6.351	61.153	-6.429	1.00	0.00	O
ATOM	6385	N	LEU	670	5.168	60.443	-8.198	1.00	0.00	N
ATOM	6386	HN	LEU	670	5.173	59.878	-9.048	1.00	0.00	H
ATOM	6387	CA	LEU	670	3.929	60.959	-7.704	1.00	0.00	C
ATOM	6388	CB	LEU	670	2.752	60.467	-8.567	1.00	0.00	C
ATOM	6389	CG	LEU	670	1.357	60.927	-8.111	1.00	0.00	C
ATOM	6390	CD1	LEU	670	0.848	60.182	-6.863	1.00	0.00	C
ATOM	6391	CD2	LEU	670	1.331	62.451	-7.944	1.00	0.00	C
ATOM	6392	C	LEU	670	3.722	60.447	-6.328	1.00	0.00	C
ATOM	6393	O	LEU	670	3.407	61.211	-5.415	1.00	0.00	O
ATOM	6394	N	ALA	671	3.916	59.135	-6.135	1.00	0.00	N
ATOM	6395	HN	ALA	671	4.259	58.526	-6.878	1.00	0.00	H
ATOM	6396	CA	ALA	671	3.616	58.638	-4.834	1.00	0.00	C
ATOM	6397	CB	ALA	671	3.775	57.111	-4.740	1.00	0.00	C
ATOM	6398	C	ALA	671	4.527	59.242	-3.815	1.00	0.00	C
ATOM	6399	O	ALA	671	4.095	60.011	-2.962	1.00	0.00	O
ATOM	6400	N	LEU	672	5.842	59.019	-3.947	1.00	0.00	N
ATOM	6401	HN	LEU	672	6.214	58.548	-4.772	1.00	0.00	H
ATOM	6402	CA	LEU	672	6.710	59.460	-2.899	1.00	0.00	C
ATOM	6403	CB	LEU	672	8.157	59.021	-3.172	1.00	0.00	C
ATOM	6404	CG	LEU	672	9.188	59.417	-2.104	1.00	0.00	C
ATOM	6405	CD1	LEU	672	8.995	58.632	-0.798	1.00	0.00	C
ATOM	6406	CD2	LEU	672	10.604	59.282	-2.667	1.00	0.00	C
ATOM	6407	C	LEU	672	6.683	60.947	-2.800	1.00	0.00	C
ATOM	6408	O	LEU	672	6.290	61.479	-1.764	1.00	0.00	O
ATOM	6409	N	GLY	673	6.982	61.652	-3.912	1.00	0.00	N
ATOM	6410	HN	GLY	673	7.080	61.173	-4.807	1.00	0.00	H
ATOM	6411	CA	GLY	673	7.162	63.070	-3.837	1.00	0.00	C
ATOM	6412	C	GLY	673	5.938	63.723	-3.286	1.00	0.00	C
ATOM	6413	O	GLY	673	6.027	64.511	-2.346	1.00	0.00	O
ATOM	6414	N	ILE	674	4.752	63.416	-3.837	1.00	0.00	N
ATOM	6415	HN	ILE	674	4.675	62.714	-4.573	1.00	0.00	H
ATOM	6416	CA	ILE	674	3.599	64.114	-3.350	1.00	0.00	C
ATOM	6417	CB	ILE	674	2.388	63.926	-4.211	1.00	0.00	C
ATOM	6418	CG1	ILE	674	2.588	64.614	-5.575	1.00	0.00	C
ATOM	6419	CG2	ILE	674	1.177	64.453	-3.422	1.00	0.00	C
ATOM	6420	CD1	ILE	674	3.718	64.022	-6.416	1.00	0.00	C
ATOM	6421	C	ILE	674	3.224	63.711	-1.958	1.00	0.00	C
ATOM	6422	O	ILE	674	3.260	64.544	-1.057	1.00	0.00	O
ATOM	6423	N	ILE	675	2.996	62.403	-1.719	1.00	0.00	N
ATOM	6424	HN	ILE	675	3.242	61.716	-2.432	1.00	0.00	H
ATOM	6425	CA	ILE	675	2.414	61.953	-0.481	1.00	0.00	C
ATOM	6426	CB	ILE	675	2.285	60.462	-0.415	1.00	0.00	C
ATOM	6427	CG1	ILE	675	1.297	59.989	-1.498	1.00	0.00	C
ATOM	6428	CG2	ILE	675	1.880	60.076	1.017	1.00	0.00	C
ATOM	6429	CD1	ILE	675	1.254	58.475	-1.691	1.00	0.00	C
ATOM	6430	C	ILE	675	3.258	62.420	0.657	1.00	0.00	C
ATOM	6431	O	ILE	675	2.742	62.864	1.681	1.00	0.00	O
ATOM	6432	N	SER	676	4.587	62.343	0.520	1.00	0.00	N
ATOM	6433	HN	SER	676	5.001	61.979	-0.338	1.00	0.00	H
ATOM	6434	CA	SER	676	5.417	62.781	1.602	1.00	0.00	C
ATOM	6435	CB	SER	676	6.898	62.439	1.400	1.00	0.00	C

ATOM	6436	OG	SER	676	7.642	62.853	2.536	1.00	0.00	O
ATOM	6437	HG	SER	676	8.560	62.641	2.411	1.00	0.00	H
ATOM	6438	C	SER	676	5.317	64.260	1.775	1.00	0.00	C
ATOM	6439	O	SER	676	5.123	64.717	2.900	1.00	0.00	O
ATOM	6440	N	PHE	677	5.380	65.032	0.663	1.00	0.00	N
ATOM	6441	HN	PHE	677	5.448	64.581	-0.250	1.00	0.00	H
ATOM	6442	CA	PHE	677	5.354	66.467	0.732	1.00	0.00	C
ATOM	6443	CB	PHE	677	5.218	67.132	-0.644	1.00	0.00	C
ATOM	6444	CG	PHE	677	5.096	68.601	-0.424	1.00	0.00	C
ATOM	6445	CD1	PHE	677	3.865	69.185	-0.231	1.00	0.00	C
ATOM	6446	CD2	PHE	677	6.215	69.397	-0.405	1.00	0.00	C
ATOM	6447	CE1	PHE	677	3.751	70.541	-0.026	1.00	0.00	C
ATOM	6448	CE2	PHE	677	6.109	70.753	-0.200	1.00	0.00	C
ATOM	6449	CZ	PHE	677	4.876	71.329	-0.013	1.00	0.00	C
ATOM	6450	C	PHE	677	4.134	66.799	1.505	1.00	0.00	C
ATOM	6451	O	PHE	677	4.165	67.655	2.389	1.00	0.00	O
ATOM	6452	N	ILE	678	3.029	66.096	1.211	1.00	0.00	N
ATOM	6453	HN	ILE	678	3.011	65.403	0.463	1.00	0.00	H
ATOM	6454	CA	ILE	678	1.883	66.378	2.010	1.00	0.00	C
ATOM	6455	CB	ILE	678	0.562	65.871	1.506	1.00	0.00	C
ATOM	6456	CG1	ILE	678	-0.556	66.614	2.255	1.00	0.00	C
ATOM	6457	CG2	ILE	678	0.462	64.357	1.721	1.00	0.00	C
ATOM	6458	CD1	ILE	678	-0.589	68.122	2.002	1.00	0.00	C
ATOM	6459	C	ILE	678	2.089	65.907	3.419	1.00	0.00	C
ATOM	6460	O	ILE	678	1.904	66.710	4.327	1.00	0.00	O
ATOM	6461	N	THR	679	2.581	64.658	3.642	1.00	0.00	N
ATOM	6462	HN	THR	679	2.920	64.106	2.854	1.00	0.00	H
ATOM	6463	CA	THR	679	2.632	64.098	4.976	1.00	0.00	C
ATOM	6464	CB	THR	679	3.280	62.733	5.065	1.00	0.00	C
ATOM	6465	OG1	THR	679	3.031	62.165	6.342	1.00	0.00	O
ATOM	6466	HG1	THR	679	2.093	62.101	6.475	1.00	0.00	H
ATOM	6467	CG2	THR	679	4.797	62.836	4.850	1.00	0.00	C
ATOM	6468	C	THR	679	3.365	65.031	5.893	1.00	0.00	C
ATOM	6469	O	THR	679	2.903	65.291	7.004	1.00	0.00	O
ATOM	6470	N	PHE	680	4.512	65.578	5.445	1.00	0.00	N
ATOM	6471	HN	PHE	680	4.854	65.339	4.514	1.00	0.00	H
ATOM	6472	CA	PHE	680	5.259	66.493	6.260	1.00	0.00	C
ATOM	6473	CB	PHE	680	6.589	66.894	5.609	1.00	0.00	C
ATOM	6474	CG	PHE	680	7.537	65.760	5.807	1.00	0.00	C
ATOM	6475	CD1	PHE	680	7.306	64.531	5.232	1.00	0.00	C
ATOM	6476	CD2	PHE	680	8.677	65.940	6.555	1.00	0.00	C
ATOM	6477	CE1	PHE	680	8.192	63.495	5.417	1.00	0.00	C
ATOM	6478	CE2	PHE	680	9.568	64.910	6.740	1.00	0.00	C
ATOM	6479	CZ	PHE	680	9.325	63.683	6.172	1.00	0.00	C
ATOM	6480	C	PHE	680	4.454	67.716	6.495	1.00	0.00	C
ATOM	6481	O	PHE	680	4.181	68.033	7.647	1.00	0.00	O
ATOM	6482	N	PHE	681	3.950	68.353	5.417	1.00	0.00	N
ATOM	6483	HN	PHE	681	4.051	67.929	4.495	1.00	0.00	H
ATOM	6484	CA	PHE	681	3.274	69.615	5.539	1.00	0.00	C
ATOM	6485	CB	PHE	681	2.621	70.104	4.239	1.00	0.00	C
ATOM	6486	CG	PHE	681	1.960	71.396	4.583	1.00	0.00	C
ATOM	6487	CD1	PHE	681	2.674	72.571	4.585	1.00	0.00	C
ATOM	6488	CD2	PHE	681	0.624	71.432	4.913	1.00	0.00	C
ATOM	6489	CE1	PHE	681	2.066	73.762	4.905	1.00	0.00	C
ATOM	6490	CE2	PHE	681	0.009	72.620	5.235	1.00	0.00	C
ATOM	6491	CZ	PHE	681	0.731	73.789	5.231	1.00	0.00	C
ATOM	6492	C	PHE	681	2.173	69.490	6.540	1.00	0.00	C
ATOM	6493	O	PHE	681	2.062	70.327	7.431	1.00	0.00	O
ATOM	6494	N	LEU	682	1.350	68.432	6.434	1.00	0.00	N
ATOM	6495	HN	LEU	682	1.514	67.756	5.688	1.00	0.00	H
ATOM	6496	CA	LEU	682	0.248	68.218	7.332	1.00	0.00	C
ATOM	6497	CB	LEU	682	-0.516	66.939	6.922	1.00	0.00	C
ATOM	6498	CG	LEU	682	-1.673	66.489	7.838	1.00	0.00	C
ATOM	6499	CD1	LEU	682	-1.197	65.864	9.163	1.00	0.00	C
ATOM	6500	CD2	LEU	682	-2.677	67.630	8.043	1.00	0.00	C
ATOM	6501	C	LEU	682	0.732	68.023	8.741	1.00	0.00	C
ATOM	6502	O	LEU	682	0.360	68.763	9.649	1.00	0.00	O
ATOM	6503	N	GLN	683	1.626	67.039	8.935	1.00	0.00	N
ATOM	6504	HN	GLN	683	1.980	66.566	8.104	1.00	0.00	H
ATOM	6505	CA	GLN	683	2.131	66.590	10.206	1.00	0.00	C
ATOM	6506	CB	GLN	683	3.148	65.484	9.891	1.00	0.00	C
ATOM	6507	CG	GLN	683	3.880	64.787	11.026	1.00	0.00	C
ATOM	6508	CD	GLN	683	4.775	63.783	10.302	1.00	0.00	C
ATOM	6509	OE1	GLN	683	5.301	62.848	10.901	1.00	0.00	O

ATOM	6510	NE2	GLN	683	4.936	63.973	8.965	1.00	0.00	N
ATOM	6511	1HE2	GLN	683	5.534	63.303	8.482	1.00	0.00	H
ATOM	6512	2HE2	GLN	683	4.499	64.749	8.468	1.00	0.00	H
ATOM	6513	C	GLN	683	2.818	67.724	10.895	1.00	0.00	C
ATOM	6514	O	GLN	683	2.590	67.986	12.074	1.00	0.00	O
ATOM	6515	N	GLY	684	3.663	68.450	10.153	1.00	0.00	N
ATOM	6516	HN	GLY	684	3.786	68.201	9.172	1.00	0.00	H
ATOM	6517	CA	GLY	684	4.401	69.559	10.674	1.00	0.00	C
ATOM	6518	C	GLY	684	3.413	70.599	11.079	1.00	0.00	C
ATOM	6519	O	GLY	684	3.637	71.337	12.035	1.00	0.00	O
ATOM	6520	N	PHE	685	2.314	70.719	10.312	1.00	0.00	N
ATOM	6521	HN	PHE	685	2.198	70.099	9.510	1.00	0.00	H
ATOM	6522	CA	PHE	685	1.302	71.694	10.592	1.00	0.00	C
ATOM	6523	CB	PHE	685	0.171	71.654	9.547	1.00	0.00	C
ATOM	6524	CG	PHE	685	-0.903	72.608	9.951	1.00	0.00	C
ATOM	6525	CD1	PHE	685	-0.856	73.934	9.587	1.00	0.00	C
ATOM	6526	CD2	PHE	685	-1.969	72.166	10.698	1.00	0.00	C
ATOM	6527	CE1	PHE	685	-1.856	74.801	9.965	1.00	0.00	C
ATOM	6528	CE2	PHE	685	-2.972	73.026	11.080	1.00	0.00	C
ATOM	6529	CZ	PHE	685	-2.917	74.349	10.713	1.00	0.00	C
ATOM	6530	C	PHE	685	0.686	71.420	11.930	1.00	0.00	C
ATOM	6531	O	PHE	685	0.660	72.292	12.794	1.00	0.00	O
ATOM	6532	N	THR	686	0.182	70.188	12.128	1.00	0.00	N
ATOM	6533	HN	THR	686	0.311	69.494	11.392	1.00	0.00	H
ATOM	6534	CA	THR	686	-0.527	69.790	13.313	1.00	0.00	C
ATOM	6535	CB	THR	686	-1.026	68.390	13.142	1.00	0.00	C
ATOM	6536	OG1	THR	686	-1.852	68.312	11.995	1.00	0.00	O
ATOM	6537	HG1	THR	686	-2.169	67.423	11.886	1.00	0.00	H
ATOM	6538	CG2	THR	686	-1.807	67.968	14.383	1.00	0.00	C
ATOM	6539	C	THR	686	0.341	69.783	14.539	1.00	0.00	C
ATOM	6540	O	THR	686	0.093	70.533	15.482	1.00	0.00	O
ATOM	6541	N	PHE	687	1.409	68.953	14.542	1.00	0.00	N
ATOM	6542	HN	PHE	687	1.650	68.433	13.698	1.00	0.00	H
ATOM	6543	CA	PHE	687	2.206	68.801	15.728	1.00	0.00	C
ATOM	6544	CB	PHE	687	3.125	67.552	15.798	1.00	0.00	C
ATOM	6545	CG	PHE	687	4.309	67.605	14.895	1.00	0.00	C
ATOM	6546	CD1	PHE	687	5.373	68.415	15.210	1.00	0.00	C
ATOM	6547	CD2	PHE	687	4.389	66.811	13.774	1.00	0.00	C
ATOM	6548	CE1	PHE	687	6.484	68.463	14.402	1.00	0.00	C
ATOM	6549	CE2	PHE	687	5.498	66.855	12.960	1.00	0.00	C
ATOM	6550	CZ	PHE	687	6.547	67.685	13.272	1.00	0.00	C
ATOM	6551	C	PHE	687	2.980	70.049	15.987	1.00	0.00	C
ATOM	6552	O	PHE	687	3.217	70.406	17.138	1.00	0.00	O
ATOM	6553	N	GLY	688	3.419	70.744	14.924	1.00	0.00	N
ATOM	6554	HN	GLY	688	3.238	70.408	13.978	1.00	0.00	H
ATOM	6555	CA	GLY	688	4.144	71.962	15.134	1.00	0.00	C
ATOM	6556	C	GLY	688	3.229	72.905	15.857	1.00	0.00	C
ATOM	6557	O	GLY	688	3.640	73.580	16.799	1.00	0.00	O
ATOM	6558	N	LYS	689	1.945	72.936	15.445	1.00	0.00	N
ATOM	6559	HN	LYS	689	1.667	72.305	14.693	1.00	0.00	H
ATOM	6560	CA	LYS	689	0.945	73.805	16.002	1.00	0.00	C
ATOM	6561	CB	LYS	689	-0.423	73.641	15.307	1.00	0.00	C
ATOM	6562	CG	LYS	689	-1.509	74.608	15.789	1.00	0.00	C
ATOM	6563	CD	LYS	689	-2.089	74.272	17.162	1.00	0.00	C
ATOM	6564	CE	LYS	689	-3.527	73.747	17.090	1.00	0.00	C
ATOM	6565	NZ	LYS	689	-3.700	72.896	15.891	1.00	0.00	N
ATOM	6566	HZ1	LYS	689	-4.657	72.547	15.843	1.00	0.00	H
ATOM	6567	HZ2	LYS	689	-3.016	72.140	15.858	1.00	0.00	H
ATOM	6568	HZ3	LYS	689	-3.428	73.382	15.036	1.00	0.00	H
ATOM	6569	C	LYS	689	0.819	73.475	17.452	1.00	0.00	C
ATOM	6570	O	LYS	689	0.530	74.349	18.267	1.00	0.00	O
ATOM	6571	N	ALA	690	1.010	72.189	17.801	1.00	0.00	N
ATOM	6572	HN	ALA	690	1.183	71.500	17.069	1.00	0.00	H
ATOM	6573	CA	ALA	690	0.978	71.756	19.167	1.00	0.00	C
ATOM	6574	CB	ALA	690	1.181	70.239	19.318	1.00	0.00	C
ATOM	6575	C	ALA	690	2.100	72.435	19.885	1.00	0.00	C
ATOM	6576	O	ALA	690	1.971	72.804	21.050	1.00	0.00	O
ATOM	6577	N	GLY	691	3.257	72.573	19.210	1.00	0.00	N
ATOM	6578	HN	GLY	691	3.330	72.200	18.263	1.00	0.00	H
ATOM	6579	CA	GLY	691	4.389	73.233	19.794	1.00	0.00	C
ATOM	6580	C	GLY	691	4.056	74.679	19.987	1.00	0.00	C
ATOM	6581	O	GLY	691	4.405	75.271	21.006	1.00	0.00	O
ATOM	6582	N	GLU	692	3.381	75.299	18.997	1.00	0.00	N
ATOM	6583	HN	GLU	692	3.082	74.780	18.171	1.00	0.00	H

ATOM	6584	CA	GLU	692	3.090	76.695	19.121	1.00	0.00	C
ATOM	6585	CB	GLU	692	2.188	77.207	17.985	1.00	0.00	C
ATOM	6586	CG	GLU	692	2.766	77.014	16.590	1.00	0.00	C
ATOM	6587	CD	GLU	692	1.681	77.280	15.563	1.00	0.00	C
ATOM	6588	OE1	GLU	692	0.724	78.023	15.903	1.00	0.00	O
ATOM	6589	OE2	GLU	692	1.789	76.736	14.430	1.00	0.00	O
ATOM	6590	C	GLU	692	2.257	76.867	20.343	1.00	0.00	C
ATOM	6591	O	GLU	692	2.714	77.401	21.348	1.00	0.00	O
ATOM	6592	N	ILE	693	1.057	76.260	20.328	1.00	0.00	N
ATOM	6593	HN	ILE	693	0.834	75.632	19.556	1.00	0.00	H
ATOM	6594	CA	ILE	693	0.082	76.463	21.356	1.00	0.00	C
ATOM	6595	CB	ILE	693	-1.162	75.652	21.087	1.00	0.00	C
ATOM	6596	CG1	ILE	693	-2.292	75.957	22.080	1.00	0.00	C
ATOM	6597	CG2	ILE	693	-0.770	74.167	21.021	1.00	0.00	C
ATOM	6598	CD1	ILE	693	-2.093	75.428	23.501	1.00	0.00	C
ATOM	6599	C	ILE	693	0.657	76.083	22.674	1.00	0.00	C
ATOM	6600	O	ILE	693	0.581	76.875	23.610	1.00	0.00	O
ATOM	6601	N	LEU	694	1.321	74.916	22.762	1.00	0.00	N
ATOM	6602	HN	LEU	694	1.488	74.368	21.918	1.00	0.00	H
ATOM	6603	CA	LEU	694	1.796	74.434	24.021	1.00	0.00	C
ATOM	6604	CB	LEU	694	2.540	73.091	23.905	1.00	0.00	C
ATOM	6605	CG	LEU	694	2.771	72.342	25.237	1.00	0.00	C
ATOM	6606	CD1	LEU	694	3.518	71.025	24.982	1.00	0.00	C
ATOM	6607	CD2	LEU	694	3.444	73.208	26.314	1.00	0.00	C
ATOM	6608	C	LEU	694	2.716	75.474	24.581	1.00	0.00	C
ATOM	6609	O	LEU	694	2.623	75.774	25.764	1.00	0.00	O
ATOM	6610	N	THR	695	3.608	76.066	23.759	1.00	0.00	N
ATOM	6611	HN	THR	695	3.637	75.779	22.781	1.00	0.00	H
ATOM	6612	CA	THR	695	4.522	77.088	24.208	1.00	0.00	C
ATOM	6613	CB	THR	695	5.499	77.489	23.143	1.00	0.00	C
ATOM	6614	OG1	THR	695	6.300	76.383	22.761	1.00	0.00	O
ATOM	6615	HG1	THR	695	5.758	75.674	22.434	1.00	0.00	H
ATOM	6616	CG2	THR	695	6.374	78.634	23.672	1.00	0.00	C
ATOM	6617	C	THR	695	3.798	78.346	24.608	1.00	0.00	C
ATOM	6618	O	THR	695	4.132	78.954	25.623	1.00	0.00	O
ATOM	6619	N	LYS	696	2.827	78.801	23.787	1.00	0.00	N
ATOM	6620	HN	LYS	696	2.591	78.251	22.961	1.00	0.00	H
ATOM	6621	CA	LYS	696	2.109	80.026	24.024	1.00	0.00	C
ATOM	6622	CB	LYS	696	1.163	80.397	22.866	1.00	0.00	C
ATOM	6623	CG	LYS	696	1.864	80.745	21.551	1.00	0.00	C
ATOM	6624	CD	LYS	696	0.904	80.853	20.361	1.00	0.00	C
ATOM	6625	CE	LYS	696	0.444	79.502	19.808	1.00	0.00	C
ATOM	6626	NZ	LYS	696	-0.480	79.710	18.671	1.00	0.00	N
ATOM	6627	HZ1	LYS	696	-0.787	78.810	18.302	1.00	0.00	H
ATOM	6628	HZ2	LYS	696	-0.069	80.300	17.947	1.00	0.00	H
ATOM	6629	HZ3	LYS	696	-1.267	80.309	18.922	1.00	0.00	H
ATOM	6630	C	LYS	696	1.249	79.925	25.226	1.00	0.00	C
ATOM	6631	O	LYS	696	1.398	80.701	26.166	1.00	0.00	O
ATOM	6632	N	ARG	697	0.369	78.912	25.246	1.00	0.00	N
ATOM	6633	HN	ARG	697	0.351	78.245	24.474	1.00	0.00	H
ATOM	6634	CA	ARG	697	-0.539	78.757	26.330	1.00	0.00	C
ATOM	6635	CB	ARG	697	-1.455	77.526	26.227	1.00	0.00	C
ATOM	6636	CG	ARG	697	-0.704	76.198	26.205	1.00	0.00	C
ATOM	6637	CD	ARG	697	-1.625	74.994	26.381	1.00	0.00	C
ATOM	6638	NE	ARG	697	-2.126	75.023	27.782	1.00	0.00	N
ATOM	6639	HE	ARG	697	-2.019	75.861	28.353	1.00	0.00	H
ATOM	6640	CZ	ARG	697	-2.730	73.912	28.289	1.00	0.00	C
ATOM	6641	NH1	ARG	697	-2.895	72.816	27.491	1.00	0.00	N
ATOM	6642	1HH1	ARG	697	-3.347	71.984	27.871	1.00	0.00	H
ATOM	6643	2HH1	ARG	697	-2.582	72.826	26.520	1.00	0.00	H
ATOM	6644	NH2	ARG	697	-3.149	73.898	29.588	1.00	0.00	N
ATOM	6645	1HH2	ARG	697	-3.601	73.066	29.968	1.00	0.00	H
ATOM	6646	2HH2	ARG	697	-3.026	74.717	30.184	1.00	0.00	H
ATOM	6647	C	ARG	697	0.336	78.577	27.522	1.00	0.00	C
ATOM	6648	O	ARG	697	-0.085	78.876	28.632	1.00	0.00	O
ATOM	6649	N	LEU	698	1.549	78.016	27.325	1.00	0.00	N
ATOM	6650	HN	LEU	698	1.821	77.749	26.379	1.00	0.00	H
ATOM	6651	CA	LEU	698	2.470	77.782	28.404	1.00	0.00	C
ATOM	6652	CB	LEU	698	3.666	76.892	28.011	1.00	0.00	C
ATOM	6653	CG	LEU	698	4.449	76.260	29.181	1.00	0.00	C
ATOM	6654	CD1	LEU	698	5.103	77.305	30.099	1.00	0.00	C
ATOM	6655	CD2	LEU	698	3.569	75.245	29.931	1.00	0.00	C
ATOM	6656	C	LEU	698	3.048	79.062	28.945	1.00	0.00	C
ATOM	6657	O	LEU	698	2.949	79.306	30.142	1.00	0.00	O

ATOM	6658	N	ARG	699	3.626	79.941	28.090	1.00	0.00	N
ATOM	6659	HN	ARG	699	3.613	79.759	27.086	1.00	0.00	H
ATOM	6660	CA	ARG	699	4.258	81.130	28.596	1.00	0.00	C
ATOM	6661	CB	ARG	699	4.872	82.036	27.514	1.00	0.00	C
ATOM	6662	CG	ARG	699	6.108	81.426	26.851	1.00	0.00	C
ATOM	6663	CD	ARG	699	6.941	82.431	26.054	1.00	0.00	C
ATOM	6664	NE	ARG	699	7.986	81.658	25.326	1.00	0.00	N
ATOM	6665	HE	ARG	699	8.096	80.659	25.500	1.00	0.00	H
ATOM	6666	CZ	ARG	699	8.796	82.288	24.426	1.00	0.00	C
ATOM	6667	NH1	ARG	699	8.673	83.633	24.230	1.00	0.00	N
ATOM	6668	1HH1	ARG	699	9.278	84.104	23.557	1.00	0.00	H
ATOM	6669	2HH1	ARG	699	7.988	84.167	24.765	1.00	0.00	H
ATOM	6670	NH2	ARG	699	9.711	81.574	23.711	1.00	0.00	N
ATOM	6671	1HH2	ARG	699	10.316	82.045	23.038	1.00	0.00	H
ATOM	6672	2HH2	ARG	699	9.803	80.569	23.857	1.00	0.00	H
ATOM	6673	C	ARG	699	3.207	81.897	29.308	1.00	0.00	C
ATOM	6674	O	ARG	699	3.468	82.513	30.337	1.00	0.00	O
ATOM	6675	N	TYR	700	1.983	81.878	28.757	1.00	0.00	N
ATOM	6676	HN	TYR	700	1.839	81.375	27.881	1.00	0.00	H
ATOM	6677	CA	TYR	700	0.879	82.544	29.367	1.00	0.00	C
ATOM	6678	CB	TYR	700	-0.376	82.496	28.487	1.00	0.00	C
ATOM	6679	CG	TYR	700	-1.464	83.196	29.217	1.00	0.00	C
ATOM	6680	CD1	TYR	700	-1.512	84.568	29.252	1.00	0.00	C
ATOM	6681	CD2	TYR	700	-2.421	82.478	29.892	1.00	0.00	C
ATOM	6682	CE1	TYR	700	-2.518	85.214	29.931	1.00	0.00	C
ATOM	6683	CE2	TYR	700	-3.428	83.118	30.570	1.00	0.00	C
ATOM	6684	CZ	TYR	700	-3.481	84.488	30.589	1.00	0.00	C
ATOM	6685	OH	TYR	700	-4.520	85.139	31.286	1.00	0.00	O
ATOM	6686	HH	TYR	700	-5.186	84.637	31.741	1.00	0.00	H
ATOM	6687	C	TYR	700	0.574	81.892	30.668	1.00	0.00	C
ATOM	6688	O	TYR	700	0.540	82.562	31.695	1.00	0.00	O
ATOM	6689	N	MET	701	0.439	80.553	30.676	1.00	0.00	N
ATOM	6690	HN	MET	701	0.622	80.017	29.828	1.00	0.00	H
ATOM	6691	CA	MET	701	0.039	79.883	31.873	1.00	0.00	C
ATOM	6692	CB	MET	701	-0.027	78.351	31.736	1.00	0.00	C
ATOM	6693	CG	MET	701	-1.211	77.852	30.905	1.00	0.00	C
ATOM	6694	SD	MET	701	-1.254	76.053	30.636	1.00	0.00	S
ATOM	6695	CE	MET	701	-1.845	75.616	32.297	1.00	0.00	C
ATOM	6696	C	MET	701	1.045	80.185	32.932	1.00	0.00	C
ATOM	6697	O	MET	701	0.677	80.550	34.045	1.00	0.00	O
ATOM	6698	N	VAL	702	2.345	80.093	32.602	1.00	0.00	N
ATOM	6699	HN	VAL	702	2.609	79.868	31.643	1.00	0.00	H
ATOM	6700	CA	VAL	702	3.360	80.308	33.587	1.00	0.00	C
ATOM	6701	CB	VAL	702	4.736	79.931	33.103	1.00	0.00	C
ATOM	6702	CG1	VAL	702	5.275	80.977	32.117	1.00	0.00	C
ATOM	6703	CG2	VAL	702	5.619	79.706	34.336	1.00	0.00	C
ATOM	6704	C	VAL	702	3.368	81.734	34.054	1.00	0.00	C
ATOM	6705	O	VAL	702	3.403	81.986	35.256	1.00	0.00	O
ATOM	6706	N	PHE	703	3.293	82.710	33.124	1.00	0.00	N
ATOM	6707	HN	PHE	703	3.146	82.466	32.145	1.00	0.00	H
ATOM	6708	CA	PHE	703	3.419	84.091	33.504	1.00	0.00	C
ATOM	6709	CB	PHE	703	3.334	85.062	32.316	1.00	0.00	C
ATOM	6710	CG	PHE	703	4.001	86.327	32.740	1.00	0.00	C
ATOM	6711	CD1	PHE	703	3.500	87.087	33.770	1.00	0.00	C
ATOM	6712	CD2	PHE	703	5.172	86.719	32.133	1.00	0.00	C
ATOM	6713	CE1	PHE	703	4.138	88.244	34.156	1.00	0.00	C
ATOM	6714	CE2	PHE	703	5.811	87.875	32.513	1.00	0.00	C
ATOM	6715	CZ	PHE	703	5.291	88.644	33.525	1.00	0.00	C
ATOM	6716	C	PHE	703	2.291	84.438	34.406	1.00	0.00	C
ATOM	6717	O	PHE	703	2.477	85.000	35.484	1.00	0.00	O
ATOM	6718	N	ARG	704	1.075	84.072	33.984	1.00	0.00	N
ATOM	6719	HN	ARG	704	0.973	83.580	33.097	1.00	0.00	H
ATOM	6720	CA	ARG	704	-0.074	84.365	34.764	1.00	0.00	C
ATOM	6721	CB	ARG	704	-1.382	83.935	34.094	1.00	0.00	C
ATOM	6722	CG	ARG	704	-1.805	84.900	32.989	1.00	0.00	C
ATOM	6723	CD	ARG	704	-2.192	86.274	33.533	1.00	0.00	C
ATOM	6724	NE	ARG	704	-3.195	86.049	34.612	1.00	0.00	N
ATOM	6725	HE	ARG	704	-3.051	85.309	35.299	1.00	0.00	H
ATOM	6726	CZ	ARG	704	-4.307	86.837	34.678	1.00	0.00	C
ATOM	6727	NH1	ARG	704	-4.518	87.783	33.721	1.00	0.00	N
ATOM	6728	1HH1	ARG	704	-3.840	87.904	32.969	1.00	0.00	H
ATOM	6729	2HH1	ARG	704	-5.349	88.372	33.770	1.00	0.00	H
ATOM	6730	NH2	ARG	704	-5.215	86.675	35.685	1.00	0.00	N
ATOM	6731	1HH2	ARG	704	-5.057	85.967	36.402	1.00	0.00	H

ATOM	6732	2HH2	ARG	704	-6.046	87.264	35.734	1.00	0.00	H
ATOM	6733	C	ARG	704	0.083	83.638	36.041	1.00	0.00	C
ATOM	6734	O	ARG	704	-0.378	84.133	37.060	1.00	0.00	O
ATOM	6735	N	SER	705	0.735	82.458	36.033	1.00	0.00	N
ATOM	6736	HN	SER	705	1.112	82.086	35.161	1.00	0.00	H
ATOM	6737	CA	SER	705	0.895	81.728	37.258	1.00	0.00	C
ATOM	6738	CB	SER	705	1.767	80.467	37.111	1.00	0.00	C
ATOM	6739	OG	SER	705	1.087	79.477	36.354	1.00	0.00	O
ATOM	6740	HG	SER	705	1.625	78.699	36.263	1.00	0.00	H
ATOM	6741	C	SER	705	1.593	82.646	38.201	1.00	0.00	C
ATOM	6742	O	SER	705	1.267	82.688	39.385	1.00	0.00	O
ATOM	6743	N	MET	706	2.585	83.391	37.682	1.00	0.00	N
ATOM	6744	HN	MET	706	2.823	83.265	36.698	1.00	0.00	H
ATOM	6745	CA	MET	706	3.322	84.352	38.445	1.00	0.00	C
ATOM	6746	CB	MET	706	4.497	84.915	37.628	1.00	0.00	C
ATOM	6747	CG	MET	706	5.535	83.865	37.225	1.00	0.00	C
ATOM	6748	SD	MET	706	6.660	84.398	35.898	1.00	0.00	S
ATOM	6749	CE	MET	706	7.749	82.947	35.969	1.00	0.00	C
ATOM	6750	C	MET	706	2.496	85.543	38.851	1.00	0.00	C
ATOM	6751	O	MET	706	2.414	85.875	40.030	1.00	0.00	O
ATOM	6752	N	LEU	707	1.823	86.212	37.890	1.00	0.00	N
ATOM	6753	HN	LEU	707	1.826	85.874	36.928	1.00	0.00	H
ATOM	6754	CA	LEU	707	1.103	87.405	38.239	1.00	0.00	C
ATOM	6755	CB	LEU	707	0.496	88.145	37.045	1.00	0.00	C
ATOM	6756	CG	LEU	707	1.555	88.888	36.218	1.00	0.00	C
ATOM	6757	CD1	LEU	707	0.904	89.662	35.066	1.00	0.00	C
ATOM	6758	CD2	LEU	707	2.432	89.779	37.115	1.00	0.00	C
ATOM	6759	C	LEU	707	0.005	87.059	39.183	1.00	0.00	C
ATOM	6760	O	LEU	707	-0.234	87.778	40.153	1.00	0.00	O
ATOM	6761	N	ARG	708	-0.695	85.950	38.894	1.00	0.00	N
ATOM	6762	HN	ARG	708	-0.449	85.432	38.051	1.00	0.00	H
ATOM	6763	CA	ARG	708	-1.768	85.453	39.703	1.00	0.00	C
ATOM	6764	CB	ARG	708	-2.356	84.121	39.209	1.00	0.00	C
ATOM	6765	CG	ARG	708	-3.004	84.098	37.826	1.00	0.00	C
ATOM	6766	CD	ARG	708	-3.172	82.657	37.332	1.00	0.00	C
ATOM	6767	NE	ARG	708	-3.836	82.686	36.001	1.00	0.00	N
ATOM	6768	HE	ARG	708	-4.583	83.356	35.817	1.00	0.00	H
ATOM	6769	CZ	ARG	708	-3.443	81.814	35.027	1.00	0.00	C
ATOM	6770	NH1	ARG	708	-2.408	80.955	35.260	1.00	0.00	N
ATOM	6771	1HH1	ARG	708	-2.114	80.303	34.532	1.00	0.00	H
ATOM	6772	2HH1	ARG	708	-1.933	80.961	36.163	1.00	0.00	H
ATOM	6773	NH2	ARG	708	-4.078	81.806	33.820	1.00	0.00	N
ATOM	6774	1HH2	ARG	708	-3.784	81.154	33.092	1.00	0.00	H
ATOM	6775	2HH2	ARG	708	-4.851	82.448	33.646	1.00	0.00	H
ATOM	6776	C	ARG	708	-1.161	85.079	40.990	1.00	0.00	C
ATOM	6777	O	ARG	708	-1.662	85.428	42.058	1.00	0.00	O
ATOM	6778	N	GLN	709	-0.017	84.370	40.924	1.00	0.00	N
ATOM	6779	HN	GLN	709	0.418	84.107	40.040	1.00	0.00	H
ATOM	6780	CA	GLN	709	0.532	84.020	42.180	1.00	0.00	C
ATOM	6781	CB	GLN	709	1.582	82.897	42.234	1.00	0.00	C
ATOM	6782	CG	GLN	709	2.925	83.104	41.557	1.00	0.00	C
ATOM	6783	CD	GLN	709	3.756	81.959	42.111	1.00	0.00	C
ATOM	6784	OE1	GLN	709	4.472	81.271	41.387	1.00	0.00	O
ATOM	6785	NE2	GLN	709	3.641	81.747	43.451	1.00	0.00	N
ATOM	6786	1HE2	GLN	709	4.199	80.978	43.823	1.00	0.00	H
ATOM	6787	2HE2	GLN	709	3.047	82.318	44.052	1.00	0.00	H
ATOM	6788	C	GLN	709	1.012	85.298	42.740	1.00	0.00	C
ATOM	6789	O	GLN	709	0.998	86.333	42.080	1.00	0.00	O
ATOM	6790	N	ASP	710	1.330	85.291	44.025	1.00	0.00	N
ATOM	6791	HN	ASP	710	1.281	84.422	44.557	1.00	0.00	H
ATOM	6792	CA	ASP	710	1.738	86.487	44.663	1.00	0.00	C
ATOM	6793	CB	ASP	710	0.612	87.481	45.011	1.00	0.00	C
ATOM	6794	CG	ASP	710	0.169	88.275	43.810	1.00	0.00	C
ATOM	6795	OD1	ASP	710	1.070	88.681	43.034	1.00	0.00	O
ATOM	6796	OD2	ASP	710	-1.060	88.504	43.654	1.00	0.00	O
ATOM	6797	C	ASP	710	2.067	85.999	45.990	1.00	0.00	C
ATOM	6798	O	ASP	710	2.572	84.890	46.149	1.00	0.00	O
ATOM	6799	N	VAL	711	1.692	86.843	46.962	1.00	0.00	N
ATOM	6800	HN	VAL	711	1.204	87.699	46.698	1.00	0.00	H
ATOM	6801	CA	VAL	711	1.938	86.608	48.331	1.00	0.00	C
ATOM	6802	CB	VAL	711	1.130	85.570	49.067	1.00	0.00	C
ATOM	6803	CG1	VAL	711	-0.274	86.160	49.222	1.00	0.00	C
ATOM	6804	CG2	VAL	711	1.153	84.204	48.369	1.00	0.00	C
ATOM	6805	C	VAL	711	3.391	86.467	48.505	1.00	0.00	C

ATOM	6806	O	VAL	711	4.162	87.085	47.777	1.00	0.00	O
ATOM	6807	N	SER	712	3.776	85.604	49.447	1.00	0.00	N
ATOM	6808	HN	SER	712	3.049	85.026	49.868	1.00	0.00	H
ATOM	6809	CA	SER	712	5.106	85.413	49.921	1.00	0.00	C
ATOM	6810	CB	SER	712	5.160	84.157	50.786	1.00	0.00	C
ATOM	6811	OG	SER	712	4.095	84.195	51.724	1.00	0.00	O
ATOM	6812	HG	SER	712	4.129	83.413	52.262	1.00	0.00	H
ATOM	6813	C	SER	712	6.050	85.165	48.794	1.00	0.00	C
ATOM	6814	O	SER	712	7.260	85.176	49.011	1.00	0.00	O
ATOM	6815	N	TRP	713	5.548	84.901	47.577	1.00	0.00	N
ATOM	6816	HN	TRP	713	4.540	84.902	47.419	1.00	0.00	H
ATOM	6817	CA	TRP	713	6.455	84.618	46.505	1.00	0.00	C
ATOM	6818	CB	TRP	713	5.688	84.348	45.199	1.00	0.00	C
ATOM	6819	CG	TRP	713	6.486	83.765	44.057	1.00	0.00	C
ATOM	6820	CD2	TRP	713	6.993	82.419	44.053	1.00	0.00	C
ATOM	6821	CD1	TRP	713	6.867	84.325	42.874	1.00	0.00	C
ATOM	6822	NE1	TRP	713	7.551	83.402	42.116	1.00	0.00	N
ATOM	6823	HE1	TRP	713	7.927	83.560	41.181	1.00	0.00	H
ATOM	6824	CE2	TRP	713	7.642	82.226	42.834	1.00	0.00	C
ATOM	6825	CE3	TRP	713	6.917	81.425	44.987	1.00	0.00	C
ATOM	6826	CZ2	TRP	713	8.224	81.026	42.530	1.00	0.00	C
ATOM	6827	CZ3	TRP	713	7.511	80.220	44.682	1.00	0.00	C
ATOM	6828	CH2	TRP	713	8.150	80.025	43.475	1.00	0.00	C
ATOM	6829	C	TRP	713	7.403	85.773	46.351	1.00	0.00	C
ATOM	6830	O	TRP	713	8.564	85.639	46.705	1.00	0.00	O
ATOM	6831	N	PHE	714	6.951	86.939	45.858	1.00	0.00	N
ATOM	6832	HN	PHE	714	5.989	86.972	45.521	1.00	0.00	H
ATOM	6833	CA	PHE	714	7.733	88.145	45.774	1.00	0.00	C
ATOM	6834	CB	PHE	714	7.086	89.161	44.823	1.00	0.00	C
ATOM	6835	CG	PHE	714	7.122	88.629	43.429	1.00	0.00	C
ATOM	6836	CD1	PHE	714	6.354	87.550	43.053	1.00	0.00	C
ATOM	6837	CD2	PHE	714	7.905	89.240	42.480	1.00	0.00	C
ATOM	6838	CE1	PHE	714	6.389	87.080	41.760	1.00	0.00	C
ATOM	6839	CE2	PHE	714	7.941	88.777	41.187	1.00	0.00	C
ATOM	6840	CZ	PHE	714	7.184	87.692	40.822	1.00	0.00	C
ATOM	6841	C	PHE	714	7.712	88.768	47.138	1.00	0.00	C
ATOM	6842	O	PHE	714	8.619	89.499	47.528	1.00	0.00	O
ATOM	6843	N	ASP	715	6.615	88.518	47.879	1.00	0.00	N
ATOM	6844	HN	ASP	715	5.918	87.875	47.504	1.00	0.00	H
ATOM	6845	CA	ASP	715	6.371	89.104	49.166	1.00	0.00	C
ATOM	6846	CB	ASP	715	5.023	88.726	49.793	1.00	0.00	C
ATOM	6847	CG	ASP	715	3.930	89.488	49.057	1.00	0.00	C
ATOM	6848	OD1	ASP	715	4.229	90.093	47.992	1.00	0.00	O
ATOM	6849	OD2	ASP	715	2.773	89.467	49.553	1.00	0.00	O
ATOM	6850	C	ASP	715	7.447	88.711	50.133	1.00	0.00	C
ATOM	6851	O	ASP	715	7.684	89.433	51.102	1.00	0.00	O
ATOM	6852	N	ASP	716	8.045	87.515	49.954	1.00	0.00	N
ATOM	6853	HN	ASP	716	7.681	86.897	49.229	1.00	0.00	H
ATOM	6854	CA	ASP	716	9.168	87.064	50.730	1.00	0.00	C
ATOM	6855	CB	ASP	716	8.735	86.264	51.971	1.00	0.00	C
ATOM	6856	CG	ASP	716	9.815	86.391	53.033	1.00	0.00	C
ATOM	6857	OD1	ASP	716	10.237	87.549	53.297	1.00	0.00	O
ATOM	6858	OD2	ASP	716	10.234	85.343	53.595	1.00	0.00	O
ATOM	6859	C	ASP	716	9.861	86.121	49.786	1.00	0.00	C
ATOM	6860	O	ASP	716	9.728	84.904	49.893	1.00	0.00	O
ATOM	6861	N	PRO	717	10.591	86.705	48.866	1.00	0.00	N
ATOM	6862	CA	PRO	717	11.104	86.065	47.680	1.00	0.00	C
ATOM	6863	CD	PRO	717	10.725	88.149	48.811	1.00	0.00	C
ATOM	6864	CB	PRO	717	11.230	87.185	46.648	1.00	0.00	C
ATOM	6865	CG	PRO	717	11.501	88.428	47.509	1.00	0.00	C
ATOM	6866	C	PRO	717	12.358	85.270	47.653	1.00	0.00	C
ATOM	6867	O	PRO	717	13.152	85.308	48.594	1.00	0.00	O
ATOM	6868	N	LYS	718	12.511	84.536	46.525	1.00	0.00	N
ATOM	6869	HN	LYS	718	11.722	84.497	45.880	1.00	0.00	H
ATOM	6870	CA	LYS	718	13.688	83.813	46.167	1.00	0.00	C
ATOM	6871	CB	LYS	718	13.686	82.356	46.660	1.00	0.00	C
ATOM	6872	CG	LYS	718	13.821	82.210	48.174	1.00	0.00	C
ATOM	6873	CD	LYS	718	12.577	82.636	48.950	1.00	0.00	C
ATOM	6874	CE	LYS	718	12.740	82.518	50.464	1.00	0.00	C
ATOM	6875	NZ	LYS	718	13.925	83.288	50.896	1.00	0.00	N
ATOM	6876	HZ1	LYS	718	14.034	83.209	51.907	1.00	0.00	H
ATOM	6877	HZ2	LYS	718	13.886	84.259	50.588	1.00	0.00	H
ATOM	6878	HZ3	LYS	718	14.769	83.009	50.395	1.00	0.00	H
ATOM	6879	C	LYS	718	13.696	83.735	44.670	1.00	0.00	C

ATOM	6880	O	LYS	718	14.422	82.925	44.098	1.00	0.00	O
ATOM	6881	N	ASN	719	12.897	84.568	43.972	1.00	0.00	N
ATOM	6882	HN	ASN	719	12.321	85.275	44.428	1.00	0.00	H
ATOM	6883	CA	ASN	719	12.909	84.397	42.552	1.00	0.00	C
ATOM	6884	CB	ASN	719	11.676	83.616	42.080	1.00	0.00	C
ATOM	6885	CG	ASN	719	11.792	82.237	42.717	1.00	0.00	C
ATOM	6886	OD1	ASN	719	12.584	81.402	42.283	1.00	0.00	O
ATOM	6887	ND2	ASN	719	11.002	82.000	43.800	1.00	0.00	N
ATOM	6888	1HD2	ASN	719	10.345	82.692	44.160	1.00	0.00	H
ATOM	6889	2HD2	ASN	719	11.080	81.077	44.226	1.00	0.00	H
ATOM	6890	C	ASN	719	12.921	85.730	41.887	1.00	0.00	C
ATOM	6891	O	ASN	719	11.880	86.336	41.646	1.00	0.00	O
ATOM	6892	N	THR	720	14.123	86.155	41.476	1.00	0.00	N
ATOM	6893	HN	THR	720	14.910	85.513	41.572	1.00	0.00	H
ATOM	6894	CA	THR	720	14.384	87.443	40.912	1.00	0.00	C
ATOM	6895	CB	THR	720	15.858	87.710	40.788	1.00	0.00	C
ATOM	6896	OG1	THR	720	16.106	88.988	40.224	1.00	0.00	O
ATOM	6897	HG1	THR	720	15.714	89.682	40.741	1.00	0.00	H
ATOM	6898	CG2	THR	720	16.493	86.584	39.950	1.00	0.00	C
ATOM	6899	C	THR	720	13.765	87.555	39.560	1.00	0.00	C
ATOM	6900	O	THR	720	13.332	86.576	38.952	1.00	0.00	O
ATOM	6901	N	THR	721	13.716	88.808	39.071	1.00	0.00	N
ATOM	6902	HN	THR	721	14.114	89.563	39.630	1.00	0.00	H
ATOM	6903	CA	THR	721	13.135	89.130	37.810	1.00	0.00	C
ATOM	6904	CB	THR	721	13.350	90.565	37.436	1.00	0.00	C
ATOM	6905	OG1	THR	721	12.763	91.422	38.401	1.00	0.00	O
ATOM	6906	HG1	THR	721	12.899	92.332	38.164	1.00	0.00	H
ATOM	6907	CG2	THR	721	12.743	90.811	36.047	1.00	0.00	C
ATOM	6908	C	THR	721	13.823	88.339	36.746	1.00	0.00	C
ATOM	6909	O	THR	721	13.177	87.698	35.919	1.00	0.00	O
ATOM	6910	N	GLY	722	15.165	88.341	36.760	1.00	0.00	N
ATOM	6911	HN	GLY	722	15.664	88.827	37.505	1.00	0.00	H
ATOM	6912	CA	GLY	722	15.900	87.665	35.734	1.00	0.00	C
ATOM	6913	C	GLY	722	15.545	86.223	35.780	1.00	0.00	C
ATOM	6914	O	GLY	722	15.347	85.599	34.739	1.00	0.00	O
ATOM	6915	N	ALA	723	15.421	85.664	36.998	1.00	0.00	N
ATOM	6916	HN	ALA	723	15.516	86.234	37.838	1.00	0.00	H
ATOM	6917	CA	ALA	723	15.155	84.265	37.102	1.00	0.00	C
ATOM	6918	CB	ALA	723	14.983	83.781	38.551	1.00	0.00	C
ATOM	6919	C	ALA	723	13.877	84.016	36.386	1.00	0.00	C
ATOM	6920	O	ALA	723	13.722	83.011	35.699	1.00	0.00	O
ATOM	6921	N	LEU	724	12.919	84.938	36.538	1.00	0.00	N
ATOM	6922	HN	LEU	724	13.078	85.751	37.133	1.00	0.00	H
ATOM	6923	CA	LEU	724	11.671	84.774	35.860	1.00	0.00	C
ATOM	6924	CB	LEU	724	10.555	85.693	36.366	1.00	0.00	C
ATOM	6925	CG	LEU	724	9.934	85.208	37.685	1.00	0.00	C
ATOM	6926	CD1	LEU	724	10.919	85.281	38.856	1.00	0.00	C
ATOM	6927	CD2	LEU	724	8.617	85.934	37.969	1.00	0.00	C
ATOM	6928	C	LEU	724	11.739	84.940	34.370	1.00	0.00	C
ATOM	6929	O	LEU	724	11.193	84.115	33.635	1.00	0.00	O
ATOM	6930	N	THR	725	12.420	85.993	33.877	1.00	0.00	N
ATOM	6931	HN	THR	725	12.943	86.604	34.504	1.00	0.00	H
ATOM	6932	CA	THR	725	12.406	86.250	32.466	1.00	0.00	C
ATOM	6933	CB	THR	725	13.293	87.398	32.095	1.00	0.00	C
ATOM	6934	OG1	THR	725	12.916	88.561	32.809	1.00	0.00	O
ATOM	6935	HG1	THR	725	13.009	88.405	33.741	1.00	0.00	H
ATOM	6936	CG2	THR	725	13.143	87.649	30.594	1.00	0.00	C
ATOM	6937	C	THR	725	12.968	85.049	31.787	1.00	0.00	C
ATOM	6938	O	THR	725	12.413	84.529	30.815	1.00	0.00	O
ATOM	6939	N	THR	726	14.072	84.541	32.349	1.00	0.00	N
ATOM	6940	HN	THR	726	14.442	84.931	33.216	1.00	0.00	H
ATOM	6941	CA	THR	726	14.720	83.443	31.709	1.00	0.00	C
ATOM	6942	CB	THR	726	15.941	82.967	32.428	1.00	0.00	C
ATOM	6943	OG1	THR	726	15.630	82.605	33.765	1.00	0.00	O
ATOM	6944	HG1	THR	726	16.406	82.302	34.222	1.00	0.00	H
ATOM	6945	CG2	THR	726	16.984	84.086	32.390	1.00	0.00	C
ATOM	6946	C	THR	726	13.793	82.293	31.622	1.00	0.00	C
ATOM	6947	O	THR	726	13.620	81.703	30.554	1.00	0.00	O
ATOM	6948	N	ARG	727	13.117	81.994	32.740	1.00	0.00	N
ATOM	6949	HN	ARG	727	13.188	82.597	33.560	1.00	0.00	H
ATOM	6950	CA	ARG	727	12.296	80.825	32.775	1.00	0.00	C
ATOM	6951	CB	ARG	727	11.515	80.683	34.091	1.00	0.00	C
ATOM	6952	CG	ARG	727	12.398	80.533	35.332	1.00	0.00	C
ATOM	6953	CD	ARG	727	12.700	79.084	35.726	1.00	0.00	C

ATOM	6954	NE	ARG	727	13.639	78.520	34.716	1.00	0.00	N
ATOM	6955	HE	ARG	727	13.436	78.627	33.722	1.00	0.00	H
ATOM	6956	CZ	ARG	727	14.768	77.861	35.109	1.00	0.00	C
ATOM	6957	NH1	ARG	727	15.064	77.737	36.436	1.00	0.00	N
ATOM	6958	1HH1	ARG	727	15.908	77.245	36.730	1.00	0.00	H
ATOM	6959	2HH1	ARG	727	14.432	78.123	37.137	1.00	0.00	H
ATOM	6960	NH2	ARG	727	15.615	77.344	34.170	1.00	0.00	N
ATOM	6961	1HH2	ARG	727	16.459	76.852	34.464	1.00	0.00	H
ATOM	6962	2HH2	ARG	727	15.394	77.437	33.179	1.00	0.00	H
ATOM	6963	C	ARG	727	11.277	80.900	31.684	1.00	0.00	C
ATOM	6964	O	ARG	727	11.069	79.922	30.964	1.00	0.00	O
ATOM	6965	N	LEU	728	10.664	82.082	31.486	1.00	0.00	N
ATOM	6966	HN	LEU	728	10.962	82.916	31.992	1.00	0.00	H
ATOM	6967	CA	LEU	728	9.583	82.142	30.548	1.00	0.00	C
ATOM	6968	CB	LEU	728	9.047	83.565	30.328	1.00	0.00	C
ATOM	6969	CG	LEU	728	8.400	84.211	31.561	1.00	0.00	C
ATOM	6970	CD1	LEU	728	7.755	85.550	31.181	1.00	0.00	C
ATOM	6971	CD2	LEU	728	7.423	83.254	32.262	1.00	0.00	C
ATOM	6972	C	LEU	728	10.008	81.694	29.184	1.00	0.00	C
ATOM	6973	O	LEU	728	9.502	80.699	28.667	1.00	0.00	O
ATOM	6974	N	ALA	729	10.996	82.377	28.587	1.00	0.00	N
ATOM	6975	HN	ALA	729	11.532	83.082	29.093	1.00	0.00	H
ATOM	6976	CA	ALA	729	11.272	82.080	27.209	1.00	0.00	C
ATOM	6977	CB	ALA	729	12.272	83.069	26.586	1.00	0.00	C
ATOM	6978	C	ALA	729	11.820	80.707	26.963	1.00	0.00	C
ATOM	6979	O	ALA	729	11.237	79.925	26.210	1.00	0.00	O
ATOM	6980	N	ASN	730	12.921	80.335	27.643	1.00	0.00	N
ATOM	6981	HN	ASN	730	13.291	80.887	28.417	1.00	0.00	H
ATOM	6982	CA	ASN	730	13.544	79.113	27.212	1.00	0.00	C
ATOM	6983	CB	ASN	730	14.921	78.840	27.853	1.00	0.00	C
ATOM	6984	CG	ASN	730	14.761	78.542	29.332	1.00	0.00	C
ATOM	6985	OD1	ASN	730	14.367	77.440	29.711	1.00	0.00	O
ATOM	6986	ND2	ASN	730	15.113	79.532	30.193	1.00	0.00	N
ATOM	6987	1HD2	ASN	730	15.440	80.446	29.879	1.00	0.00	H
ATOM	6988	2HD2	ASN	730	15.005	79.332	31.187	1.00	0.00	H
ATOM	6989	C	ASN	730	12.649	77.940	27.463	1.00	0.00	C
ATOM	6990	O	ASN	730	12.455	77.102	26.581	1.00	0.00	O
ATOM	6991	N	ASP	731	12.021	77.906	28.652	1.00	0.00	N
ATOM	6992	HN	ASP	731	12.082	78.722	29.261	1.00	0.00	H
ATOM	6993	CA	ASP	731	11.266	76.764	29.100	1.00	0.00	C
ATOM	6994	CB	ASP	731	10.659	76.947	30.504	1.00	0.00	C
ATOM	6995	CG	ASP	731	11.728	76.719	31.564	1.00	0.00	C
ATOM	6996	OD1	ASP	731	12.793	76.142	31.220	1.00	0.00	O
ATOM	6997	OD2	ASP	731	11.483	77.101	32.740	1.00	0.00	O
ATOM	6998	C	ASP	731	10.121	76.430	28.206	1.00	0.00	C
ATOM	6999	O	ASP	731	9.877	75.249	27.958	1.00	0.00	O
ATOM	7000	N	ALA	732	9.373	77.432	27.705	1.00	0.00	N
ATOM	7001	HN	ALA	732	9.599	78.410	27.886	1.00	0.00	H
ATOM	7002	CA	ALA	732	8.243	77.057	26.905	1.00	0.00	C
ATOM	7003	CB	ALA	732	7.460	78.267	26.385	1.00	0.00	C
ATOM	7004	C	ALA	732	8.733	76.275	25.722	1.00	0.00	C
ATOM	7005	O	ALA	732	8.195	75.224	25.378	1.00	0.00	O
ATOM	7006	N	ALA	733	9.836	76.718	25.108	1.00	0.00	N
ATOM	7007	HN	ALA	733	10.357	77.517	25.469	1.00	0.00	H
ATOM	7008	CA	ALA	733	10.261	76.027	23.921	1.00	0.00	C
ATOM	7009	CB	ALA	733	11.517	76.660	23.301	1.00	0.00	C
ATOM	7010	C	ALA	733	10.575	74.578	24.183	1.00	0.00	C
ATOM	7011	O	ALA	733	10.076	73.685	23.495	1.00	0.00	O
ATOM	7012	N	GLN	734	11.343	74.304	25.246	1.00	0.00	N
ATOM	7013	HN	GLN	734	11.569	75.058	25.895	1.00	0.00	H
ATOM	7014	CA	GLN	734	11.860	72.992	25.508	1.00	0.00	C
ATOM	7015	CB	GLN	734	12.604	72.991	26.854	1.00	0.00	C
ATOM	7016	CG	GLN	734	13.454	74.250	27.082	1.00	0.00	C
ATOM	7017	CD	GLN	734	14.548	74.339	26.032	1.00	0.00	C
ATOM	7018	OE1	GLN	734	15.437	73.491	25.970	1.00	0.00	O
ATOM	7019	NE2	GLN	734	14.491	75.401	25.185	1.00	0.00	N
ATOM	7020	1HE2	GLN	734	15.226	75.461	24.480	1.00	0.00	H
ATOM	7021	2HE2	GLN	734	13.754	76.104	25.236	1.00	0.00	H
ATOM	7022	C	GLN	734	10.712	72.027	25.644	1.00	0.00	C
ATOM	7023	O	GLN	734	10.704	70.949	25.045	1.00	0.00	O
ATOM	7024	N	VAL	735	9.674	72.425	26.400	1.00	0.00	N
ATOM	7025	HN	VAL	735	9.656	73.371	26.781	1.00	0.00	H
ATOM	7026	CA	VAL	735	8.590	71.524	26.674	1.00	0.00	C
ATOM	7027	CB	VAL	735	7.584	72.088	27.643	1.00	0.00	C

ATOM	7028	CG1	VAL	735	7.181	73.514	27.255	1.00	0.00	C
ATOM	7029	CG2	VAL	735	6.392	71.134	27.657	1.00	0.00	C
ATOM	7030	C	VAL	735	7.921	71.078	25.410	1.00	0.00	C
ATOM	7031	O	VAL	735	7.566	69.902	25.275	1.00	0.00	O
ATOM	7032	N	LYS	736	7.802	71.997	24.432	1.00	0.00	N
ATOM	7033	HN	LYS	736	8.155	72.939	24.600	1.00	0.00	H
ATOM	7034	CA	LYS	736	7.198	71.702	23.162	1.00	0.00	C
ATOM	7035	CB	LYS	736	7.500	72.829	22.158	1.00	0.00	C
ATOM	7036	CG	LYS	736	7.131	72.532	20.705	1.00	0.00	C
ATOM	7037	CD	LYS	736	7.295	73.746	19.785	1.00	0.00	C
ATOM	7038	CE	LYS	736	7.173	73.412	18.297	1.00	0.00	C
ATOM	7039	NZ	LYS	736	8.409	72.748	17.826	1.00	0.00	N
ATOM	7040	HZ1	LYS	736	8.328	72.525	16.834	1.00	0.00	H
ATOM	7041	HZ2	LYS	736	8.639	71.926	18.385	1.00	0.00	H
ATOM	7042	HZ3	LYS	736	9.241	73.302	18.027	1.00	0.00	H
ATOM	7043	C	LYS	736	7.895	70.474	22.656	1.00	0.00	C
ATOM	7044	O	LYS	736	7.296	69.578	22.058	1.00	0.00	O
ATOM	7045	N	GLY	737	9.199	70.391	22.961	1.00	0.00	N
ATOM	7046	HN	GLY	737	9.630	71.133	23.512	1.00	0.00	H
ATOM	7047	CA	GLY	737	10.003	69.282	22.530	1.00	0.00	C
ATOM	7048	C	GLY	737	9.525	67.977	23.108	1.00	0.00	C
ATOM	7049	O	GLY	737	9.471	66.969	22.402	1.00	0.00	O
ATOM	7050	N	ALA	738	9.145	67.952	24.401	1.00	0.00	N
ATOM	7051	HN	ALA	738	9.102	68.819	24.936	1.00	0.00	H
ATOM	7052	CA	ALA	738	8.799	66.700	25.029	1.00	0.00	C
ATOM	7053	CB	ALA	738	8.428	66.872	26.513	1.00	0.00	C
ATOM	7054	C	ALA	738	7.628	66.028	24.333	1.00	0.00	C
ATOM	7055	O	ALA	738	7.576	64.800	24.241	1.00	0.00	O
ATOM	7056	N	ILE	739	6.613	66.802	23.894	1.00	0.00	N
ATOM	7057	HN	ILE	739	6.676	67.811	24.027	1.00	0.00	H
ATOM	7058	CA	ILE	739	5.434	66.259	23.240	1.00	0.00	C
ATOM	7059	CB	ILE	739	4.328	67.285	23.217	1.00	0.00	C
ATOM	7060	CG1	ILE	739	2.958	66.711	22.803	1.00	0.00	C
ATOM	7061	CG2	ILE	739	4.801	68.445	22.328	1.00	0.00	C
ATOM	7062	CD1	ILE	739	2.821	66.379	21.317	1.00	0.00	C
ATOM	7063	C	ILE	739	5.656	65.740	21.826	1.00	0.00	C
ATOM	7064	O	ILE	739	5.240	64.631	21.475	1.00	0.00	O
ATOM	7065	N	GLY	740	6.345	66.515	20.965	1.00	0.00	N
ATOM	7066	HN	GLY	740	6.756	67.390	21.292	1.00	0.00	H
ATOM	7067	CA	GLY	740	6.508	66.121	19.585	1.00	0.00	C
ATOM	7068	C	GLY	740	7.192	64.789	19.554	1.00	0.00	C
ATOM	7069	O	GLY	740	6.996	63.995	18.629	1.00	0.00	O
ATOM	7070	N	SER	741	8.046	64.537	20.565	1.00	0.00	N
ATOM	7071	HN	SER	741	8.157	65.233	21.302	1.00	0.00	H
ATOM	7072	CA	SER	741	8.808	63.317	20.639	1.00	0.00	C
ATOM	7073	CB	SER	741	9.717	63.223	21.878	1.00	0.00	C
ATOM	7074	OG	SER	741	10.833	64.089	21.748	1.00	0.00	O
ATOM	7075	HG	SER	741	11.394	64.031	22.513	1.00	0.00	H
ATOM	7076	C	SER	741	7.895	62.129	20.691	1.00	0.00	C
ATOM	7077	O	SER	741	8.142	61.113	20.032	1.00	0.00	O
ATOM	7078	N	ARG	742	6.784	62.249	21.442	1.00	0.00	N
ATOM	7079	HN	ARG	742	6.557	63.142	21.879	1.00	0.00	H
ATOM	7080	CA	ARG	742	5.920	61.120	21.626	1.00	0.00	C
ATOM	7081	CB	ARG	742	4.644	61.469	22.423	1.00	0.00	C
ATOM	7082	CG	ARG	742	4.838	62.438	23.602	1.00	0.00	C
ATOM	7083	CD	ARG	742	6.121	62.284	24.429	1.00	0.00	C
ATOM	7084	NE	ARG	742	5.911	61.220	25.449	1.00	0.00	N
ATOM	7085	HE	ARG	742	5.256	60.459	25.268	1.00	0.00	H
ATOM	7086	CZ	ARG	742	6.600	61.267	26.631	1.00	0.00	C
ATOM	7087	NH1	ARG	742	7.476	62.279	26.888	1.00	0.00	N
ATOM	7088	1HH1	ARG	742	7.620	63.006	26.187	1.00	0.00	H
ATOM	7089	2HH1	ARG	742	7.989	62.314	27.769	1.00	0.00	H
ATOM	7090	NH2	ARG	742	6.407	60.296	27.568	1.00	0.00	N
ATOM	7091	1HH2	ARG	742	5.751	59.539	27.376	1.00	0.00	H
ATOM	7092	2HH2	ARG	742	6.920	60.331	28.449	1.00	0.00	H
ATOM	7093	C	ARG	742	5.461	60.701	20.235	1.00	0.00	C
ATOM	7094	O	ARG	742	5.285	59.522	19.918	1.00	0.00	O
ATOM	7095	N	LEU	743	5.280	61.701	19.353	1.00	0.00	N
ATOM	7096	HN	LEU	743	5.531	62.639	19.666	1.00	0.00	H
ATOM	7097	CA	LEU	743	4.766	61.583	18.007	1.00	0.00	C
ATOM	7098	CB	LEU	743	4.682	63.008	17.421	1.00	0.00	C
ATOM	7099	CG	LEU	743	3.892	63.211	16.120	1.00	0.00	C
ATOM	7100	CD1	LEU	743	4.472	62.416	14.947	1.00	0.00	C
ATOM	7101	CD2	LEU	743	2.393	62.993	16.347	1.00	0.00	C

ATOM	7102	C	LEU	743	5.630	60.740	17.081	1.00	0.00	C
ATOM	7103	O	LEU	743	5.167	59.790	16.444	1.00	0.00	O
ATOM	7104	N	ALA	744	6.932	61.050	17.012	1.00	0.00	N
ATOM	7105	HN	ALA	744	7.280	61.780	17.634	1.00	0.00	H
ATOM	7106	CA	ALA	744	7.877	60.422	16.119	1.00	0.00	C
ATOM	7107	CB	ALA	744	9.283	61.038	16.220	1.00	0.00	C
ATOM	7108	C	ALA	744	7.987	58.981	16.472	1.00	0.00	C
ATOM	7109	O	ALA	744	8.513	58.181	15.698	1.00	0.00	O
ATOM	7110	N	VAL	745	7.646	58.645	17.725	1.00	0.00	N
ATOM	7111	HN	VAL	745	7.311	59.353	18.378	1.00	0.00	H
ATOM	7112	CA	VAL	745	7.759	57.280	18.130	1.00	0.00	C
ATOM	7113	CB	VAL	745	7.510	57.077	19.595	1.00	0.00	C
ATOM	7114	CG1	VAL	745	7.514	55.565	19.889	1.00	0.00	C
ATOM	7115	CG2	VAL	745	8.579	57.860	20.378	1.00	0.00	C
ATOM	7116	C	VAL	745	6.803	56.408	17.384	1.00	0.00	C
ATOM	7117	O	VAL	745	7.202	55.474	16.685	1.00	0.00	O
ATOM	7118	N	ILE	746	5.505	56.747	17.446	1.00	0.00	N
ATOM	7119	HN	ILE	746	5.210	57.616	17.891	1.00	0.00	H
ATOM	7120	CA	ILE	746	4.547	55.851	16.869	1.00	0.00	C
ATOM	7121	CB	ILE	746	3.120	56.275	17.081	1.00	0.00	C
ATOM	7122	CG1	ILE	746	2.186	55.069	16.881	1.00	0.00	C
ATOM	7123	CG2	ILE	746	2.816	57.465	16.157	1.00	0.00	C
ATOM	7124	CD1	ILE	746	0.768	55.299	17.403	1.00	0.00	C
ATOM	7125	C	ILE	746	4.824	55.728	15.400	1.00	0.00	C
ATOM	7126	O	ILE	746	4.753	54.640	14.826	1.00	0.00	O
ATOM	7127	N	THR	747	5.202	56.854	14.767	1.00	0.00	N
ATOM	7128	HN	THR	747	5.345	57.713	15.299	1.00	0.00	H
ATOM	7129	CA	THR	747	5.405	56.850	13.345	1.00	0.00	C
ATOM	7130	CB	THR	747	5.747	58.210	12.802	1.00	0.00	C
ATOM	7131	OG1	THR	747	5.933	58.136	11.395	1.00	0.00	O
ATOM	7132	HG1	THR	747	5.146	57.807	10.977	1.00	0.00	H
ATOM	7133	CG2	THR	747	7.017	58.741	13.477	1.00	0.00	C
ATOM	7134	C	THR	747	6.449	55.893	12.862	1.00	0.00	C
ATOM	7135	O	THR	747	6.118	54.979	12.109	1.00	0.00	O
ATOM	7136	N	GLN	748	7.708	55.999	13.336	1.00	0.00	N
ATOM	7137	HN	GLN	748	7.916	56.641	14.101	1.00	0.00	H
ATOM	7138	CA	GLN	748	8.757	55.199	12.755	1.00	0.00	C
ATOM	7139	CB	GLN	748	10.123	55.331	13.451	1.00	0.00	C
ATOM	7140	CG	GLN	748	10.120	54.754	14.870	1.00	0.00	C
ATOM	7141	CD	GLN	748	11.560	54.523	15.311	1.00	0.00	C
ATOM	7142	OE1	GLN	748	11.870	53.528	15.964	1.00	0.00	O
ATOM	7143	NE2	GLN	748	12.469	55.466	14.949	1.00	0.00	N
ATOM	7144	1HE2	GLN	748	13.433	55.311	15.244	1.00	0.00	H
ATOM	7145	2HE2	GLN	748	12.212	56.291	14.407	1.00	0.00	H
ATOM	7146	C	GLN	748	8.380	53.764	12.919	1.00	0.00	C
ATOM	7147	O	GLN	748	8.572	52.945	12.019	1.00	0.00	O
ATOM	7148	N	ASN	749	7.741	53.465	14.061	1.00	0.00	N
ATOM	7149	HN	ASN	749	7.467	54.214	14.696	1.00	0.00	H
ATOM	7150	CA	ASN	749	7.440	52.108	14.397	1.00	0.00	C
ATOM	7151	CB	ASN	749	6.570	52.033	15.664	1.00	0.00	C
ATOM	7152	CG	ASN	749	6.342	50.592	16.112	1.00	0.00	C
ATOM	7153	OD1	ASN	749	6.354	49.642	15.330	1.00	0.00	O
ATOM	7154	ND2	ASN	749	6.102	50.429	17.440	1.00	0.00	N
ATOM	7155	1HD2	ASN	749	6.092	51.216	18.088	1.00	0.00	H
ATOM	7156	2HD2	ASN	749	5.950	49.466	17.739	1.00	0.00	H
ATOM	7157	C	ASN	749	6.673	51.439	13.304	1.00	0.00	C
ATOM	7158	O	ASN	749	7.130	50.454	12.724	1.00	0.00	O
ATOM	7159	N	ILE	750	5.503	51.978	12.946	1.00	0.00	N
ATOM	7160	HN	ILE	750	5.183	52.865	13.334	1.00	0.00	H
ATOM	7161	CA	ILE	750	4.719	51.251	11.991	1.00	0.00	C
ATOM	7162	CB	ILE	750	3.354	51.825	11.746	1.00	0.00	C
ATOM	7163	CG1	ILE	750	2.480	51.617	12.992	1.00	0.00	C
ATOM	7164	CG2	ILE	750	2.761	51.194	10.473	1.00	0.00	C
ATOM	7165	CD1	ILE	750	1.113	52.282	12.878	1.00	0.00	C
ATOM	7166	C	ILE	750	5.429	51.135	10.683	1.00	0.00	C
ATOM	7167	O	ILE	750	5.414	50.063	10.078	1.00	0.00	O
ATOM	7168	N	ALA	751	6.099	52.215	10.231	1.00	0.00	N
ATOM	7169	HN	ALA	751	6.206	53.039	10.823	1.00	0.00	H
ATOM	7170	CA	ALA	751	6.661	52.194	8.907	1.00	0.00	C
ATOM	7171	CB	ALA	751	7.667	53.320	8.693	1.00	0.00	C
ATOM	7172	C	ALA	751	7.573	51.041	8.739	1.00	0.00	C
ATOM	7173	O	ALA	751	7.280	50.088	8.017	1.00	0.00	O
ATOM	7174	N	ASN	752	8.656	51.062	9.521	1.00	0.00	N
ATOM	7175	HN	ASN	752	8.750	51.767	10.253	1.00	0.00	H

ATOM	7176	CA	ASN	752	9.676	50.091	9.322	1.00	0.00	C
ATOM	7177	CB	ASN	752	10.823	50.286	10.335	1.00	0.00	C
ATOM	7178	CG	ASN	752	11.847	49.164	10.201	1.00	0.00	C
ATOM	7179	OD1	ASN	752	12.895	49.330	9.580	1.00	0.00	O
ATOM	7180	ND2	ASN	752	11.556	47.989	10.823	1.00	0.00	N
ATOM	7181	1HD2	ASN	752	12.241	47.239	10.733	1.00	0.00	H
ATOM	7182	2HD2	ASN	752	10.687	47.851	11.338	1.00	0.00	H
ATOM	7183	C	ASN	752	9.120	48.732	9.541	1.00	0.00	C
ATOM	7184	O	ASN	752	9.121	47.898	8.635	1.00	0.00	O
ATOM	7185	N	LEU	753	8.627	48.471	10.765	1.00	0.00	N
ATOM	7186	HN	LEU	753	8.536	49.194	11.479	1.00	0.00	H
ATOM	7187	CA	LEU	753	8.240	47.117	11.000	1.00	0.00	C
ATOM	7188	CB	LEU	753	7.936	46.797	12.474	1.00	0.00	C
ATOM	7189	CG	LEU	753	7.521	45.326	12.679	1.00	0.00	C
ATOM	7190	CD1	LEU	753	8.662	44.367	12.297	1.00	0.00	C
ATOM	7191	CD2	LEU	753	6.987	45.083	14.098	1.00	0.00	C
ATOM	7192	C	LEU	753	7.023	46.732	10.241	1.00	0.00	C
ATOM	7193	O	LEU	753	7.110	45.930	9.317	1.00	0.00	O
ATOM	7194	N	GLY	754	5.896	47.418	10.513	1.00	0.00	N
ATOM	7195	HN	GLY	754	5.945	48.286	11.046	1.00	0.00	H
ATOM	7196	CA	GLY	754	4.625	46.930	10.055	1.00	0.00	C
ATOM	7197	C	GLY	754	4.624	46.756	8.575	1.00	0.00	C
ATOM	7198	O	GLY	754	4.235	45.704	8.067	1.00	0.00	O
ATOM	7199	N	THR	755	5.085	47.770	7.834	1.00	0.00	N
ATOM	7200	HN	THR	755	5.436	48.624	8.268	1.00	0.00	H
ATOM	7201	CA	THR	755	5.069	47.615	6.410	1.00	0.00	C
ATOM	7202	CB	THR	755	5.394	48.867	5.651	1.00	0.00	C
ATOM	7203	OG1	THR	755	4.486	49.901	6.003	1.00	0.00	O
ATOM	7204	HG1	THR	755	4.692	50.694	5.522	1.00	0.00	H
ATOM	7205	CG2	THR	755	5.274	48.564	4.146	1.00	0.00	C
ATOM	7206	C	THR	755	6.073	46.582	6.010	1.00	0.00	C
ATOM	7207	O	THR	755	5.831	45.780	5.108	1.00	0.00	O
ATOM	7208	N	GLY	756	7.241	46.577	6.675	1.00	0.00	N
ATOM	7209	HN	GLY	756	7.383	47.209	7.463	1.00	0.00	H
ATOM	7210	CA	GLY	756	8.288	45.682	6.276	1.00	0.00	C
ATOM	7211	C	GLY	756	7.837	44.273	6.454	1.00	0.00	C
ATOM	7212	O	GLY	756	8.135	43.413	5.630	1.00	0.00	O
ATOM	7213	N	ILE	757	7.125	43.991	7.557	1.00	0.00	N
ATOM	7214	HN	ILE	757	6.879	44.742	8.202	1.00	0.00	H
ATOM	7215	CA	ILE	757	6.705	42.651	7.842	1.00	0.00	C
ATOM	7216	CB	ILE	757	6.123	42.471	9.211	1.00	0.00	C
ATOM	7217	CG1	ILE	757	4.857	43.315	9.411	1.00	0.00	C
ATOM	7218	CG2	ILE	757	7.240	42.775	10.214	1.00	0.00	C
ATOM	7219	CD1	ILE	757	4.118	42.977	10.705	1.00	0.00	C
ATOM	7220	C	ILE	757	5.711	42.167	6.839	1.00	0.00	C
ATOM	7221	O	ILE	757	5.770	41.015	6.418	1.00	0.00	O
ATOM	7222	N	ILE	758	4.759	43.020	6.426	1.00	0.00	N
ATOM	7223	HN	ILE	758	4.740	43.985	6.757	1.00	0.00	H
ATOM	7224	CA	ILE	758	3.771	42.535	5.507	1.00	0.00	C
ATOM	7225	CB	ILE	758	2.788	43.594	5.111	1.00	0.00	C
ATOM	7226	CG1	ILE	758	2.058	44.123	6.356	1.00	0.00	C
ATOM	7227	CG2	ILE	758	1.848	42.996	4.051	1.00	0.00	C
ATOM	7228	CD1	ILE	758	1.330	43.034	7.142	1.00	0.00	C
ATOM	7229	C	ILE	758	4.489	42.101	4.270	1.00	0.00	C
ATOM	7230	O	ILE	758	4.319	40.982	3.788	1.00	0.00	O
ATOM	7231	N	ILE	759	5.377	42.967	3.766	1.00	0.00	N
ATOM	7232	HN	ILE	759	5.488	43.883	4.201	1.00	0.00	H
ATOM	7233	CA	ILE	759	6.172	42.627	2.627	1.00	0.00	C
ATOM	7234	CB	ILE	759	6.999	43.735	2.039	1.00	0.00	C
ATOM	7235	CG1	ILE	759	7.906	44.390	3.083	1.00	0.00	C
ATOM	7236	CG2	ILE	759	6.065	44.671	1.268	1.00	0.00	C
ATOM	7237	CD1	ILE	759	8.897	45.377	2.478	1.00	0.00	C
ATOM	7238	C	ILE	759	7.050	41.490	3.011	1.00	0.00	C
ATOM	7239	O	ILE	759	7.608	40.814	2.151	1.00	0.00	O
ATOM	7240	N	SER	760	7.308	41.320	4.317	1.00	0.00	N
ATOM	7241	HN	SER	760	6.922	41.952	5.019	1.00	0.00	H
ATOM	7242	CA	SER	760	8.142	40.222	4.688	1.00	0.00	C
ATOM	7243	CB	SER	760	8.628	40.218	6.152	1.00	0.00	C
ATOM	7244	OG	SER	760	7.745	39.497	6.995	1.00	0.00	O
ATOM	7245	HG	SER	760	8.044	39.495	7.897	1.00	0.00	H
ATOM	7246	C	SER	760	7.390	38.954	4.419	1.00	0.00	C
ATOM	7247	O	SER	760	7.996	37.906	4.200	1.00	0.00	O
ATOM	7248	N	PHE	761	6.042	39.015	4.433	1.00	0.00	N
ATOM	7249	HN	PHE	761	5.574	39.894	4.654	1.00	0.00	H

ATOM	7250	CA	PHE	761	5.266	37.843	4.137	1.00	0.00	C
ATOM	7251	CB	PHE	761	3.743	38.086	4.210	1.00	0.00	C
ATOM	7252	CG	PHE	761	3.348	38.168	5.646	1.00	0.00	C
ATOM	7253	CD1	PHE	761	3.626	39.288	6.394	1.00	0.00	C
ATOM	7254	CD2	PHE	761	2.679	37.122	6.241	1.00	0.00	C
ATOM	7255	CE1	PHE	761	3.256	39.356	7.716	1.00	0.00	C
ATOM	7256	CE2	PHE	761	2.305	37.184	7.563	1.00	0.00	C
ATOM	7257	CZ	PHE	761	2.596	38.303	8.305	1.00	0.00	C
ATOM	7258	C	PHE	761	5.590	37.442	2.735	1.00	0.00	C
ATOM	7259	O	PHE	761	5.963	36.300	2.470	1.00	0.00	O
ATOM	7260	N	ILE	762	5.533	38.412	1.807	1.00	0.00	N
ATOM	7261	HN	ILE	762	5.314	39.368	2.087	1.00	0.00	H
ATOM	7262	CA	ILE	762	5.778	38.114	0.428	1.00	0.00	C
ATOM	7263	CB	ILE	762	5.632	39.271	-0.521	1.00	0.00	C
ATOM	7264	CG1	ILE	762	5.496	38.727	-1.947	1.00	0.00	C
ATOM	7265	CG2	ILE	762	6.834	40.213	-0.390	1.00	0.00	C
ATOM	7266	CD1	ILE	762	5.021	39.782	-2.940	1.00	0.00	C
ATOM	7267	C	ILE	762	7.168	37.590	0.329	1.00	0.00	C
ATOM	7268	O	ILE	762	7.482	36.821	-0.579	1.00	0.00	O
ATOM	7269	N	TYR	763	8.069	38.044	1.222	1.00	0.00	N
ATOM	7270	HN	TYR	763	7.827	38.742	1.926	1.00	0.00	H
ATOM	7271	CA	TYR	763	9.388	37.489	1.125	1.00	0.00	C
ATOM	7272	CB	TYR	763	10.452	37.895	2.144	1.00	0.00	C
ATOM	7273	CG	TYR	763	10.650	39.355	2.138	1.00	0.00	C
ATOM	7274	CD1	TYR	763	10.697	40.052	0.959	1.00	0.00	C
ATOM	7275	CD2	TYR	763	10.741	40.017	3.335	1.00	0.00	C
ATOM	7276	CE1	TYR	763	10.868	41.410	0.988	1.00	0.00	C
ATOM	7277	CE2	TYR	763	10.912	41.373	3.369	1.00	0.00	C
ATOM	7278	CZ	TYR	763	10.977	42.062	2.189	1.00	0.00	C
ATOM	7279	OH	TYR	763	11.152	43.453	2.218	1.00	0.00	O
ATOM	7280	HH	TYR	763	11.228	43.905	3.050	1.00	0.00	H
ATOM	7281	C	TYR	763	9.268	36.020	1.337	1.00	0.00	C
ATOM	7282	O	TYR	763	8.398	35.564	2.079	1.00	0.00	O
ATOM	7283	N	GLY	764	10.145	35.243	0.666	1.00	0.00	N
ATOM	7284	HN	GLY	764	10.873	35.674	0.096	1.00	0.00	H
ATOM	7285	CA	GLY	764	10.057	33.817	0.752	1.00	0.00	C
ATOM	7286	C	GLY	764	11.054	33.241	1.723	1.00	0.00	C
ATOM	7287	O	GLY	764	11.832	32.351	1.384	1.00	0.00	O
ATOM	7288	N	TRP	765	11.091	33.776	2.954	1.00	0.00	N
ATOM	7289	HN	TRP	765	10.661	34.687	3.113	1.00	0.00	H
ATOM	7290	CA	TRP	765	11.721	33.097	4.055	1.00	0.00	C
ATOM	7291	CB	TRP	765	11.105	31.697	4.215	1.00	0.00	C
ATOM	7292	CG	TRP	765	9.600	31.702	4.327	1.00	0.00	C
ATOM	7293	CD2	TRP	765	8.847	31.123	5.403	1.00	0.00	C
ATOM	7294	CD1	TRP	765	8.686	32.177	3.430	1.00	0.00	C
ATOM	7295	NE1	TRP	765	7.412	31.940	3.884	1.00	0.00	N
ATOM	7296	HE1	TRP	765	6.550	32.202	3.406	1.00	0.00	H
ATOM	7297	CE2	TRP	765	7.496	31.288	5.095	1.00	0.00	C
ATOM	7298	CE3	TRP	765	9.247	30.494	6.546	1.00	0.00	C
ATOM	7299	CZ2	TRP	765	6.521	30.826	5.931	1.00	0.00	C
ATOM	7300	CZ3	TRP	765	8.261	30.040	7.392	1.00	0.00	C
ATOM	7301	CH2	TRP	765	6.925	30.203	7.091	1.00	0.00	C
ATOM	7302	C	TRP	765	13.203	32.867	3.883	1.00	0.00	C
ATOM	7303	O	TRP	765	13.760	32.067	4.632	1.00	0.00	O
ATOM	7304	N	GLN	766	13.875	33.381	2.835	1.00	0.00	N
ATOM	7305	HN	GLN	766	13.390	33.882	2.091	1.00	0.00	H
ATOM	7306	CA	GLN	766	15.307	33.196	2.804	1.00	0.00	C
ATOM	7307	CB	GLN	766	15.803	32.785	1.414	1.00	0.00	C
ATOM	7308	CG	GLN	766	15.096	31.513	0.950	1.00	0.00	C
ATOM	7309	CD	GLN	766	14.925	30.616	2.171	1.00	0.00	C
ATOM	7310	OE1	GLN	766	15.857	30.411	2.948	1.00	0.00	O
ATOM	7311	NE2	GLN	766	13.688	30.082	2.362	1.00	0.00	N
ATOM	7312	1HE2	GLN	766	13.574	29.482	3.179	1.00	0.00	H
ATOM	7313	2HE2	GLN	766	12.915	30.252	1.718	1.00	0.00	H
ATOM	7314	C	GLN	766	16.103	34.386	3.275	1.00	0.00	C
ATOM	7315	O	GLN	766	17.220	34.256	3.775	1.00	0.00	O
ATOM	7316	N	LEU	767	15.649	35.581	2.858	1.00	0.00	N
ATOM	7317	HN	LEU	767	14.826	35.582	2.256	1.00	0.00	H
ATOM	7318	CA	LEU	767	16.221	36.853	3.186	1.00	0.00	C
ATOM	7319	CB	LEU	767	16.214	37.835	2.010	1.00	0.00	C
ATOM	7320	CG	LEU	767	17.267	37.456	0.952	1.00	0.00	C
ATOM	7321	CD1	LEU	767	18.685	37.610	1.525	1.00	0.00	C
ATOM	7322	CD2	LEU	767	17.020	36.051	0.380	1.00	0.00	C
ATOM	7323	C	LEU	767	15.612	37.494	4.373	1.00	0.00	C

ATOM	7324	O	LEU	767	16.319	38.164	5.111	1.00	0.00	O
ATOM	7325	N	THR	768	14.290	37.325	4.581	1.00	0.00	N
ATOM	7326	HN	THR	768	13.767	36.694	3.974	1.00	0.00	H
ATOM	7327	CA	THR	768	13.601	38.014	5.640	1.00	0.00	C
ATOM	7328	CB	THR	768	12.228	37.471	5.876	1.00	0.00	C
ATOM	7329	OG1	THR	768	11.487	37.471	4.673	1.00	0.00	O
ATOM	7330	HG1	THR	768	11.920	36.920	4.031	1.00	0.00	H
ATOM	7331	CG2	THR	768	11.528	38.362	6.914	1.00	0.00	C
ATOM	7332	C	THR	768	14.339	37.690	6.880	1.00	0.00	C
ATOM	7333	O	THR	768	14.764	38.574	7.624	1.00	0.00	O
ATOM	7334	N	LEU	769	14.551	36.386	7.087	1.00	0.00	N
ATOM	7335	HN	LEU	769	14.160	35.698	6.443	1.00	0.00	H
ATOM	7336	CA	LEU	769	15.321	35.956	8.203	1.00	0.00	C
ATOM	7337	CB	LEU	769	15.275	34.442	8.463	1.00	0.00	C
ATOM	7338	CG	LEU	769	16.080	34.004	9.707	1.00	0.00	C
ATOM	7339	CD1	LEU	769	17.601	33.984	9.481	1.00	0.00	C
ATOM	7340	CD2	LEU	769	15.697	34.871	10.916	1.00	0.00	C
ATOM	7341	C	LEU	769	16.739	36.342	7.957	1.00	0.00	C
ATOM	7342	O	LEU	769	17.465	36.693	8.881	1.00	0.00	O
ATOM	7343	N	LEU	770	17.169	36.311	6.687	1.00	0.00	N
ATOM	7344	HN	LEU	770	16.501	36.132	5.937	1.00	0.00	H
ATOM	7345	CA	LEU	770	18.546	36.524	6.364	1.00	0.00	C
ATOM	7346	CB	LEU	770	18.777	36.509	4.840	1.00	0.00	C
ATOM	7347	CG	LEU	770	20.244	36.322	4.410	1.00	0.00	C
ATOM	7348	CD1	LEU	770	21.160	37.448	4.899	1.00	0.00	C
ATOM	7349	CD2	LEU	770	20.747	34.932	4.811	1.00	0.00	C
ATOM	7350	C	LEU	770	18.985	37.861	6.918	1.00	0.00	C
ATOM	7351	O	LEU	770	20.075	37.959	7.472	1.00	0.00	O
ATOM	7352	N	LEU	771	18.176	38.922	6.714	1.00	0.00	N
ATOM	7353	HN	LEU	771	17.321	38.713	6.198	1.00	0.00	H
ATOM	7354	CA	LEU	771	18.321	40.301	7.105	1.00	0.00	C
ATOM	7355	CB	LEU	771	17.428	41.187	6.205	1.00	0.00	C
ATOM	7356	CG	LEU	771	17.422	42.717	6.425	1.00	0.00	C
ATOM	7357	CD1	LEU	771	16.630	43.383	5.291	1.00	0.00	C
ATOM	7358	CD2	LEU	771	16.846	43.152	7.784	1.00	0.00	C
ATOM	7359	C	LEU	771	17.989	40.571	8.539	1.00	0.00	C
ATOM	7360	O	LEU	771	18.716	41.279	9.220	1.00	0.00	O
ATOM	7361	N	LEU	772	16.892	40.005	9.051	1.00	0.00	N
ATOM	7362	HN	LEU	772	16.381	39.327	8.486	1.00	0.00	H
ATOM	7363	CA	LEU	772	16.406	40.315	10.365	1.00	0.00	C
ATOM	7364	CB	LEU	772	15.217	39.394	10.704	1.00	0.00	C
ATOM	7365	CG	LEU	772	14.662	39.501	12.132	1.00	0.00	C
ATOM	7366	CD1	LEU	772	15.578	38.838	13.173	1.00	0.00	C
ATOM	7367	CD2	LEU	772	14.333	40.959	12.473	1.00	0.00	C
ATOM	7368	C	LEU	772	17.515	40.028	11.312	1.00	0.00	C
ATOM	7369	O	LEU	772	17.639	40.658	12.355	1.00	0.00	O
ATOM	7370	N	ALA	773	18.336	39.021	11.005	1.00	0.00	N
ATOM	7371	HN	ALA	773	18.183	38.442	10.179	1.00	0.00	H
ATOM	7372	CA	ALA	773	19.438	38.790	11.883	1.00	0.00	C
ATOM	7373	CB	ALA	773	20.242	37.539	11.492	1.00	0.00	C
ATOM	7374	C	ALA	773	20.378	39.965	11.826	1.00	0.00	C
ATOM	7375	O	ALA	773	20.783	40.490	12.862	1.00	0.00	O
ATOM	7376	N	ILE	774	20.723	40.430	10.605	1.00	0.00	N
ATOM	7377	HN	ILE	774	20.290	40.018	9.779	1.00	0.00	H
ATOM	7378	CA	ILE	774	21.684	41.489	10.435	1.00	0.00	C
ATOM	7379	CB	ILE	774	22.147	41.753	9.022	1.00	0.00	C
ATOM	7380	CG1	ILE	774	21.014	42.206	8.089	1.00	0.00	C
ATOM	7381	CG2	ILE	774	22.927	40.527	8.547	1.00	0.00	C
ATOM	7382	CD1	ILE	774	21.505	42.692	6.728	1.00	0.00	C
ATOM	7383	C	ILE	774	21.236	42.812	10.976	1.00	0.00	C
ATOM	7384	O	ILE	774	22.006	43.457	11.683	1.00	0.00	O
ATOM	7385	N	VAL	775	20.004	43.277	10.686	1.00	0.00	N
ATOM	7386	HN	VAL	775	19.332	42.718	10.161	1.00	0.00	H
ATOM	7387	CA	VAL	775	19.684	44.599	11.153	1.00	0.00	C
ATOM	7388	CB	VAL	775	18.366	45.129	10.666	1.00	0.00	C
ATOM	7389	CG1	VAL	775	18.075	46.462	11.382	1.00	0.00	C
ATOM	7390	CG2	VAL	775	18.451	45.265	9.135	1.00	0.00	C
ATOM	7391	C	VAL	775	19.733	44.629	12.646	1.00	0.00	C
ATOM	7392	O	VAL	775	20.355	45.524	13.202	1.00	0.00	O
ATOM	7393	N	PRO	776	19.146	43.715	13.351	1.00	0.00	N
ATOM	7394	CA	PRO	776	19.320	43.800	14.769	1.00	0.00	C
ATOM	7395	CD	PRO	776	17.777	43.354	13.042	1.00	0.00	C
ATOM	7396	CB	PRO	776	18.345	42.786	15.353	1.00	0.00	C
ATOM	7397	CG	PRO	776	17.156	42.889	14.376	1.00	0.00	C

ATOM	7398	C	PRO	776	20.743	43.737	15.235	1.00	0.00	C
ATOM	7399	O	PRO	776	21.064	44.458	16.174	1.00	0.00	O
ATOM	7400	N	ILE	777	21.620	42.925	14.618	1.00	0.00	N
ATOM	7401	HN	ILE	777	21.324	42.347	13.831	1.00	0.00	H
ATOM	7402	CA	ILE	777	22.981	42.882	15.082	1.00	0.00	C
ATOM	7403	CB	ILE	777	23.780	41.767	14.477	1.00	0.00	C
ATOM	7404	CG1	ILE	777	23.879	41.924	12.958	1.00	0.00	C
ATOM	7405	CG2	ILE	777	23.146	40.442	14.911	1.00	0.00	C
ATOM	7406	CD1	ILE	777	24.801	40.898	12.316	1.00	0.00	C
ATOM	7407	C	ILE	777	23.664	44.178	14.784	1.00	0.00	C
ATOM	7408	O	ILE	777	24.384	44.720	15.619	1.00	0.00	O
ATOM	7409	N	ILE	778	23.468	44.701	13.563	1.00	0.00	N
ATOM	7410	HN	ILE	778	22.869	44.205	12.903	1.00	0.00	H
ATOM	7411	CA	ILE	778	24.073	45.932	13.160	1.00	0.00	C
ATOM	7412	CB	ILE	778	23.831	46.190	11.700	1.00	0.00	C
ATOM	7413	CG1	ILE	778	24.509	47.481	11.264	1.00	0.00	C
ATOM	7414	CG2	ILE	778	22.326	46.168	11.411	1.00	0.00	C
ATOM	7415	CD1	ILE	778	24.552	47.636	9.745	1.00	0.00	C
ATOM	7416	C	ILE	778	23.516	47.055	13.990	1.00	0.00	C
ATOM	7417	O	ILE	778	24.257	47.917	14.458	1.00	0.00	O
ATOM	7418	N	ALA	779	22.187	47.077	14.201	1.00	0.00	N
ATOM	7419	HN	ALA	779	21.610	46.336	13.802	1.00	0.00	H
ATOM	7420	CA	ALA	779	21.556	48.114	14.972	1.00	0.00	C
ATOM	7421	CB	ALA	779	20.029	47.956	15.053	1.00	0.00	C
ATOM	7422	C	ALA	779	22.092	48.014	16.361	1.00	0.00	C
ATOM	7423	O	ALA	779	22.443	49.015	16.986	1.00	0.00	O
ATOM	7424	N	ILE	780	22.216	46.774	16.862	1.00	0.00	N
ATOM	7425	HN	ILE	780	21.939	45.971	16.297	1.00	0.00	H
ATOM	7426	CA	ILE	780	22.732	46.569	18.178	1.00	0.00	C
ATOM	7427	CB	ILE	780	22.803	45.132	18.612	1.00	0.00	C
ATOM	7428	CG1	ILE	780	21.395	44.576	18.885	1.00	0.00	C
ATOM	7429	CG2	ILE	780	23.740	45.046	19.828	1.00	0.00	C
ATOM	7430	CD1	ILE	780	21.363	43.058	19.054	1.00	0.00	C
ATOM	7431	C	ILE	780	24.107	47.140	18.207	1.00	0.00	C
ATOM	7432	O	ILE	780	24.564	47.602	19.248	1.00	0.00	O
ATOM	7433	N	ALA	781	24.829	47.089	17.074	1.00	0.00	N
ATOM	7434	HN	ALA	781	24.433	46.670	16.232	1.00	0.00	H
ATOM	7435	CA	ALA	781	26.156	47.625	17.054	1.00	0.00	C
ATOM	7436	CB	ALA	781	26.822	47.504	15.674	1.00	0.00	C
ATOM	7437	C	ALA	781	26.077	49.076	17.392	1.00	0.00	C
ATOM	7438	O	ALA	781	26.841	49.543	18.233	1.00	0.00	O
ATOM	7439	N	GLY	782	25.100	49.807	16.813	1.00	0.00	N
ATOM	7440	HN	GLY	782	24.415	49.349	16.211	1.00	0.00	H
ATOM	7441	CA	GLY	782	25.016	51.226	17.037	1.00	0.00	C
ATOM	7442	C	GLY	782	24.941	51.461	18.516	1.00	0.00	C
ATOM	7443	O	GLY	782	25.647	52.322	19.042	1.00	0.00	O
ATOM	7444	N	VAL	783	24.100	50.694	19.234	1.00	0.00	N
ATOM	7445	HN	VAL	783	23.524	49.987	18.777	1.00	0.00	H
ATOM	7446	CA	VAL	783	24.028	50.889	20.655	1.00	0.00	C
ATOM	7447	CB	VAL	783	22.871	50.190	21.323	1.00	0.00	C
ATOM	7448	CG1	VAL	783	23.077	48.667	21.284	1.00	0.00	C
ATOM	7449	CG2	VAL	783	22.748	50.744	22.753	1.00	0.00	C
ATOM	7450	C	VAL	783	25.301	50.431	21.347	1.00	0.00	C
ATOM	7451	O	VAL	783	25.850	51.158	22.170	1.00	0.00	O
ATOM	7452	N	VAL	784	25.835	49.230	21.022	1.00	0.00	N
ATOM	7453	HN	VAL	784	25.420	48.696	20.258	1.00	0.00	H
ATOM	7454	CA	VAL	784	26.977	48.679	21.724	1.00	0.00	C
ATOM	7455	CB	VAL	784	27.356	47.304	21.252	1.00	0.00	C
ATOM	7456	CG1	VAL	784	27.705	47.376	19.757	1.00	0.00	C
ATOM	7457	CG2	VAL	784	28.512	46.790	22.129	1.00	0.00	C
ATOM	7458	C	VAL	784	28.179	49.554	21.555	1.00	0.00	C
ATOM	7459	O	VAL	784	28.953	49.743	22.493	1.00	0.00	O
ATOM	7460	N	GLU	785	28.378	50.102	20.344	1.00	0.00	N
ATOM	7461	HN	GLU	785	27.721	49.896	19.591	1.00	0.00	H
ATOM	7462	CA	GLU	785	29.490	50.968	20.084	1.00	0.00	C
ATOM	7463	CB	GLU	785	29.387	51.570	18.679	1.00	0.00	C
ATOM	7464	CG	GLU	785	30.316	52.755	18.436	1.00	0.00	C
ATOM	7465	CD	GLU	785	29.755	53.499	17.236	1.00	0.00	C
ATOM	7466	OE1	GLU	785	29.630	52.867	16.153	1.00	0.00	O
ATOM	7467	OE2	GLU	785	29.425	54.705	17.393	1.00	0.00	O
ATOM	7468	C	GLU	785	29.351	52.107	21.027	1.00	0.00	C
ATOM	7469	O	GLU	785	30.299	52.508	21.699	1.00	0.00	O
ATOM	7470	N	MET	786	28.122	52.629	21.127	1.00	0.00	N
ATOM	7471	HN	MET	786	27.358	52.228	20.583	1.00	0.00	H

ATOM	7472	CA	MET	786	27.868	53.739	21.985	1.00	0.00	C
ATOM	7473	CB	MET	786	26.379	54.131	22.011	1.00	0.00	C
ATOM	7474	CG	MET	786	25.960	54.864	23.290	1.00	0.00	C
ATOM	7475	SD	MET	786	25.470	53.759	24.656	1.00	0.00	S
ATOM	7476	CE	MET	786	25.962	54.882	25.993	1.00	0.00	C
ATOM	7477	C	MET	786	28.228	53.359	23.386	1.00	0.00	C
ATOM	7478	O	MET	786	28.877	54.134	24.085	1.00	0.00	O
ATOM	7479	N	LYS	787	27.835	52.151	23.832	1.00	0.00	N
ATOM	7480	HN	LYS	787	27.388	51.501	23.185	1.00	0.00	H
ATOM	7481	CA	LYS	787	28.032	51.757	25.202	1.00	0.00	C
ATOM	7482	CB	LYS	787	27.612	50.297	25.470	1.00	0.00	C
ATOM	7483	CG	LYS	787	27.959	49.843	26.894	1.00	0.00	C
ATOM	7484	CD	LYS	787	27.691	48.366	27.202	1.00	0.00	C
ATOM	7485	CE	LYS	787	28.984	47.542	27.280	1.00	0.00	C
ATOM	7486	NZ	LYS	787	28.693	46.130	27.611	1.00	0.00	N
ATOM	7487	HZ1	LYS	787	29.552	45.583	27.663	1.00	0.00	H
ATOM	7488	HZ2	LYS	787	28.025	45.721	26.958	1.00	0.00	H
ATOM	7489	HZ3	LYS	787	28.143	46.050	28.466	1.00	0.00	H
ATOM	7490	C	LYS	787	29.490	51.757	25.590	1.00	0.00	C
ATOM	7491	O	LYS	787	29.874	52.421	26.551	1.00	0.00	O
ATOM	7492	N	MET	788	30.352	51.024	24.855	1.00	0.00	N
ATOM	7493	HN	MET	788	30.030	50.556	24.008	1.00	0.00	H
ATOM	7494	CA	MET	788	31.730	50.902	25.267	1.00	0.00	C
ATOM	7495	CB	MET	788	32.547	49.899	24.425	1.00	0.00	C
ATOM	7496	CG	MET	788	33.994	49.732	24.909	1.00	0.00	C
ATOM	7497	SD	MET	788	34.955	48.431	24.070	1.00	0.00	S
ATOM	7498	CE	MET	788	34.473	47.086	25.192	1.00	0.00	C
ATOM	7499	C	MET	788	32.391	52.233	25.177	1.00	0.00	C
ATOM	7500	O	MET	788	33.218	52.592	26.015	1.00	0.00	O
ATOM	7501	N	LEU	789	32.041	53.000	24.132	1.00	0.00	N
ATOM	7502	HN	LEU	789	31.339	52.659	23.475	1.00	0.00	H
ATOM	7503	CA	LEU	789	32.632	54.284	23.922	1.00	0.00	C
ATOM	7504	CB	LEU	789	32.268	54.893	22.570	1.00	0.00	C
ATOM	7505	CG	LEU	789	32.880	54.041	21.448	1.00	0.00	C
ATOM	7506	CD1	LEU	789	32.812	54.752	20.090	1.00	0.00	C
ATOM	7507	CD2	LEU	789	34.292	53.574	21.837	1.00	0.00	C
ATOM	7508	C	LEU	789	32.236	55.182	25.044	1.00	0.00	C
ATOM	7509	O	LEU	789	33.010	56.050	25.436	1.00	0.00	O
ATOM	7510	N	SER	790	31.013	55.027	25.584	1.00	0.00	N
ATOM	7511	HN	SER	790	30.376	54.318	25.222	1.00	0.00	H
ATOM	7512	CA	SER	790	30.615	55.871	26.675	1.00	0.00	C
ATOM	7513	CB	SER	790	29.121	55.752	27.055	1.00	0.00	C
ATOM	7514	OG	SER	790	28.831	54.502	27.664	1.00	0.00	O
ATOM	7515	HG	SER	790	27.913	54.429	27.897	1.00	0.00	H
ATOM	7516	C	SER	790	31.438	55.545	27.886	1.00	0.00	C
ATOM	7517	O	SER	790	31.846	56.441	28.623	1.00	0.00	O
ATOM	7518	N	GLY	791	31.731	54.252	28.125	1.00	0.00	N
ATOM	7519	HN	GLY	791	31.459	53.525	27.464	1.00	0.00	H
ATOM	7520	CA	GLY	791	32.433	53.922	29.330	1.00	0.00	C
ATOM	7521	C	GLY	791	33.768	54.580	29.323	1.00	0.00	C
ATOM	7522	O	GLY	791	34.162	55.211	30.302	1.00	0.00	O
ATOM	7523	N	GLN	792	34.511	54.454	28.212	1.00	0.00	N
ATOM	7524	HN	GLN	792	34.159	53.950	27.398	1.00	0.00	H
ATOM	7525	CA	GLN	792	35.808	55.046	28.205	1.00	0.00	C
ATOM	7526	CB	GLN	792	36.715	54.522	27.088	1.00	0.00	C
ATOM	7527	CG	GLN	792	38.177	54.872	27.354	1.00	0.00	C
ATOM	7528	CD	GLN	792	38.605	54.195	28.654	1.00	0.00	C
ATOM	7529	OE1	GLN	792	37.814	53.529	29.321	1.00	0.00	O
ATOM	7530	NE2	GLN	792	39.898	54.377	29.028	1.00	0.00	N
ATOM	7531	1HE2	GLN	792	40.184	53.925	29.896	1.00	0.00	H
ATOM	7532	2HE2	GLN	792	40.554	54.929	28.475	1.00	0.00	H
ATOM	7533	C	GLN	792	35.696	56.550	28.155	1.00	0.00	C
ATOM	7534	O	GLN	792	36.469	57.237	28.816	1.00	0.00	O
ATOM	7535	N	ALA	793	34.724	57.110	27.394	1.00	0.00	N
ATOM	7536	HN	ALA	793	34.063	56.497	26.916	1.00	0.00	H
ATOM	7537	CA	ALA	793	34.584	58.545	27.231	1.00	0.00	C
ATOM	7538	CB	ALA	793	33.419	58.917	26.301	1.00	0.00	C
ATOM	7539	C	ALA	793	34.307	59.162	28.565	1.00	0.00	C
ATOM	7540	O	ALA	793	34.908	60.178	28.902	1.00	0.00	O
ATOM	7541	N	LEU	794	33.391	58.572	29.363	1.00	0.00	N
ATOM	7542	HN	LEU	794	32.940	57.709	29.060	1.00	0.00	H
ATOM	7543	CA	LEU	794	33.045	59.147	30.634	1.00	0.00	C
ATOM	7544	CB	LEU	794	31.827	58.471	31.307	1.00	0.00	C
ATOM	7545	CG	LEU	794	31.408	59.070	32.675	1.00	0.00	C

ATOM	7546	CD1	LEU	794	32.358	58.682	33.820	1.00	0.00	C
ATOM	7547	CD2	LEU	794	31.222	60.592	32.571	1.00	0.00	C
ATOM	7548	C	LEU	794	34.207	59.042	31.564	1.00	0.00	C
ATOM	7549	O	LEU	794	34.541	60.004	32.251	1.00	0.00	O
ATOM	7550	N	LYS	795	34.872	57.874	31.602	1.00	0.00	N
ATOM	7551	HN	LYS	795	34.629	57.125	30.954	1.00	0.00	H
ATOM	7552	CA	LYS	795	35.921	57.687	32.555	1.00	0.00	C
ATOM	7553	CB	LYS	795	36.426	56.231	32.592	1.00	0.00	C
ATOM	7554	CG	LYS	795	37.381	55.821	31.477	1.00	0.00	C
ATOM	7555	CD	LYS	795	38.838	56.148	31.794	1.00	0.00	C
ATOM	7556	CE	LYS	795	39.428	55.217	32.857	1.00	0.00	C
ATOM	7557	NZ	LYS	795	40.890	55.413	32.948	1.00	0.00	N
ATOM	7558	HZ1	LYS	795	41.283	54.793	33.656	1.00	0.00	H
ATOM	7559	HZ2	LYS	795	41.135	56.389	33.117	1.00	0.00	H
ATOM	7560	HZ3	LYS	795	41.348	55.298	32.044	1.00	0.00	H
ATOM	7561	C	LYS	795	37.024	58.668	32.263	1.00	0.00	C
ATOM	7562	O	LYS	795	37.597	59.237	33.187	1.00	0.00	O
ATOM	7563	N	ASP	796	37.343	58.905	30.971	1.00	0.00	N
ATOM	7564	HN	ASP	796	36.827	58.409	30.245	1.00	0.00	H
ATOM	7565	CA	ASP	796	38.382	59.829	30.569	1.00	0.00	C
ATOM	7566	CB	ASP	796	38.695	59.734	29.069	1.00	0.00	C
ATOM	7567	CG	ASP	796	40.092	60.295	28.867	1.00	0.00	C
ATOM	7568	OD1	ASP	796	40.245	61.545	28.875	1.00	0.00	O
ATOM	7569	OD2	ASP	796	41.030	59.469	28.705	1.00	0.00	O
ATOM	7570	C	ASP	796	37.981	61.227	30.882	1.00	0.00	C
ATOM	7571	O	ASP	796	38.800	62.031	31.320	1.00	0.00	O
ATOM	7572	N	LYS	797	36.697	61.555	30.673	1.00	0.00	N
ATOM	7573	HN	LYS	797	36.041	60.860	30.316	1.00	0.00	H
ATOM	7574	CA	LYS	797	36.254	62.883	30.954	1.00	0.00	C
ATOM	7575	CB	LYS	797	34.761	63.079	30.677	1.00	0.00	C
ATOM	7576	CG	LYS	797	34.432	62.864	29.201	1.00	0.00	C
ATOM	7577	CD	LYS	797	35.194	63.807	28.269	1.00	0.00	C
ATOM	7578	CE	LYS	797	35.133	63.391	26.799	1.00	0.00	C
ATOM	7579	NZ	LYS	797	36.000	62.211	26.573	1.00	0.00	N
ATOM	7580	HZ1	LYS	797	35.959	61.933	25.592	1.00	0.00	H
ATOM	7581	HZ2	LYS	797	35.768	61.440	27.199	1.00	0.00	H
ATOM	7582	HZ3	LYS	797	36.957	62.373	26.886	1.00	0.00	H
ATOM	7583	C	LYS	797	36.499	63.037	32.413	1.00	0.00	C
ATOM	7584	O	LYS	797	36.737	64.146	32.874	1.00	0.00	O
ATOM	7585	N	LYS	798	36.395	61.921	33.170	1.00	0.00	N
ATOM	7586	HN	LYS	798	36.156	61.049	32.698	1.00	0.00	H
ATOM	7587	CA	LYS	798	36.597	61.877	34.593	1.00	0.00	C
ATOM	7588	CB	LYS	798	36.139	60.539	35.194	1.00	0.00	C
ATOM	7589	CG	LYS	798	35.795	60.641	36.676	1.00	0.00	C
ATOM	7590	CD	LYS	798	34.599	61.564	36.927	1.00	0.00	C
ATOM	7591	CE	LYS	798	33.464	61.357	35.920	1.00	0.00	C
ATOM	7592	NZ	LYS	798	32.351	62.293	36.198	1.00	0.00	N
ATOM	7593	HZ1	LYS	798	31.595	62.155	35.527	1.00	0.00	H
ATOM	7594	HZ2	LYS	798	32.667	63.263	36.221	1.00	0.00	H
ATOM	7595	HZ3	LYS	798	32.023	62.218	37.161	1.00	0.00	H
ATOM	7596	C	LYS	798	38.042	62.097	34.987	1.00	0.00	C
ATOM	7597	O	LYS	798	38.322	62.925	35.849	1.00	0.00	O
ATOM	7598	N	GLU	799	39.014	61.386	34.371	1.00	0.00	N
ATOM	7599	HN	GLU	799	38.769	60.759	33.604	1.00	0.00	H
ATOM	7600	CA	GLU	799	40.395	61.501	34.783	1.00	0.00	C
ATOM	7601	CB	GLU	799	41.320	60.632	33.919	1.00	0.00	C
ATOM	7602	CG	GLU	799	40.978	59.142	33.929	1.00	0.00	C
ATOM	7603	CD	GLU	799	41.693	58.510	32.741	1.00	0.00	C
ATOM	7604	OE1	GLU	799	41.410	58.935	31.589	1.00	0.00	O
ATOM	7605	OE2	GLU	799	42.533	57.598	32.967	1.00	0.00	O
ATOM	7606	C	GLU	799	40.806	62.911	34.526	1.00	0.00	C
ATOM	7607	O	GLU	799	41.385	63.583	35.378	1.00	0.00	O
ATOM	7608	N	LEU	800	40.450	63.373	33.318	1.00	0.00	N
ATOM	7609	HN	LEU	800	39.977	62.702	32.712	1.00	0.00	H
ATOM	7610	CA	LEU	800	40.642	64.677	32.762	1.00	0.00	C
ATOM	7611	CB	LEU	800	39.951	64.693	31.384	1.00	0.00	C
ATOM	7612	CG	LEU	800	39.619	66.060	30.775	1.00	0.00	C
ATOM	7613	CD1	LEU	800	38.366	66.680	31.421	1.00	0.00	C
ATOM	7614	CD2	LEU	800	40.829	66.993	30.812	1.00	0.00	C
ATOM	7615	C	LEU	800	39.941	65.608	33.663	1.00	0.00	C
ATOM	7616	O	LEU	800	40.429	66.697	33.931	1.00	0.00	O
ATOM	7617	N	GLU	801	38.772	65.180	34.151	1.00	0.00	N
ATOM	7618	HN	GLU	801	38.449	64.252	33.878	1.00	0.00	H
ATOM	7619	CA	GLU	801	37.952	65.944	35.030	1.00	0.00	C

ATOM	7620	CB	GLU	801	36.663	65.201	35.396	1.00	0.00	C
ATOM	7621	CG	GLU	801	35.757	65.982	36.333	1.00	0.00	C
ATOM	7622	CD	GLU	801	34.451	65.213	36.440	1.00	0.00	C
ATOM	7623	OE1	GLU	801	34.250	64.277	35.621	1.00	0.00	O
ATOM	7624	OE2	GLU	801	33.638	65.552	37.339	1.00	0.00	O
ATOM	7625	C	GLU	801	38.719	66.139	36.280	1.00	0.00	C
ATOM	7626	O	GLU	801	38.620	67.180	36.919	1.00	0.00	O
ATOM	7627	N	GLY	802	39.498	65.129	36.688	1.00	0.00	N
ATOM	7628	HN	GLY	802	39.573	64.264	36.152	1.00	0.00	H
ATOM	7629	CA	GLY	802	40.216	65.316	37.902	1.00	0.00	C
ATOM	7630	C	GLY	802	41.160	66.463	37.741	1.00	0.00	C
ATOM	7631	O	GLY	802	41.201	67.365	38.578	1.00	0.00	O
ATOM	7632	N	SER	803	41.943	66.447	36.646	1.00	0.00	N
ATOM	7633	HN	SER	803	41.838	65.687	35.973	1.00	0.00	H
ATOM	7634	CA	SER	803	42.920	67.465	36.397	1.00	0.00	C
ATOM	7635	CB	SER	803	43.822	67.145	35.192	1.00	0.00	C
ATOM	7636	OG	SER	803	44.528	65.932	35.409	1.00	0.00	O
ATOM	7637	HG	SER	803	45.085	65.734	34.665	1.00	0.00	H
ATOM	7638	C	SER	803	42.249	68.777	36.097	1.00	0.00	C
ATOM	7639	O	SER	803	42.450	69.768	36.784	1.00	0.00	O
ATOM	7640	N	GLY	804	41.387	68.817	35.074	1.00	0.00	N
ATOM	7641	HN	GLY	804	41.164	67.945	34.595	1.00	0.00	H
ATOM	7642	CA	GLY	804	40.761	70.024	34.617	1.00	0.00	C
ATOM	7643	C	GLY	804	39.948	70.599	35.693	1.00	0.00	C
ATOM	7644	O	GLY	804	39.889	71.819	35.820	1.00	0.00	O
ATOM	7645	N	LYS	805	39.277	69.742	36.477	1.00	0.00	N
ATOM	7646	HN	LYS	805	39.329	68.733	36.336	1.00	0.00	H
ATOM	7647	CA	LYS	805	38.493	70.310	37.511	1.00	0.00	C
ATOM	7648	CB	LYS	805	37.757	69.304	38.411	1.00	0.00	C
ATOM	7649	CG	LYS	805	36.385	68.896	37.878	1.00	0.00	C
ATOM	7650	CD	LYS	805	35.427	70.085	37.771	1.00	0.00	C
ATOM	7651	CE	LYS	805	34.018	69.703	37.318	1.00	0.00	C
ATOM	7652	NZ	LYS	805	33.148	70.901	37.292	1.00	0.00	N
ATOM	7653	HZ1	LYS	805	32.208	70.646	36.990	1.00	0.00	H
ATOM	7654	HZ2	LYS	805	33.543	71.647	36.720	1.00	0.00	H
ATOM	7655	HZ3	LYS	805	33.142	71.387	38.189	1.00	0.00	H
ATOM	7656	C	LYS	805	39.441	71.050	38.390	1.00	0.00	C
ATOM	7657	O	LYS	805	39.115	72.147	38.829	1.00	0.00	O
ATOM	7658	N	ILE	806	40.637	70.482	38.661	1.00	0.00	N
ATOM	7659	HN	ILE	806	40.866	69.561	38.288	1.00	0.00	H
ATOM	7660	CA	ILE	806	41.579	71.188	39.477	1.00	0.00	C
ATOM	7661	CB	ILE	806	42.674	70.389	40.159	1.00	0.00	C
ATOM	7662	CG1	ILE	806	43.660	69.701	39.213	1.00	0.00	C
ATOM	7663	CG2	ILE	806	41.981	69.416	41.123	1.00	0.00	C
ATOM	7664	CD1	ILE	806	44.903	69.177	39.931	1.00	0.00	C
ATOM	7665	C	ILE	806	42.137	72.391	38.792	1.00	0.00	C
ATOM	7666	O	ILE	806	42.430	73.398	39.427	1.00	0.00	O
ATOM	7667	N	ALA	807	42.356	72.334	37.477	1.00	0.00	N
ATOM	7668	HN	ALA	807	42.154	71.487	36.947	1.00	0.00	H
ATOM	7669	CA	ALA	807	42.884	73.500	36.833	1.00	0.00	C
ATOM	7670	CB	ALA	807	43.054	73.320	35.318	1.00	0.00	C
ATOM	7671	C	ALA	807	41.877	74.588	37.023	1.00	0.00	C
ATOM	7672	O	ALA	807	42.236	75.750	37.203	1.00	0.00	O
ATOM	7673	N	THR	808	40.582	74.223	36.947	1.00	0.00	N
ATOM	7674	HN	THR	808	40.360	73.248	36.744	1.00	0.00	H
ATOM	7675	CA	THR	808	39.503	75.147	37.140	1.00	0.00	C
ATOM	7676	CB	THR	808	38.154	74.568	36.826	1.00	0.00	C
ATOM	7677	OG1	THR	808	38.101	74.145	35.472	1.00	0.00	O
ATOM	7678	HG1	THR	808	37.247	73.779	35.273	1.00	0.00	H
ATOM	7679	CG2	THR	808	37.084	75.643	37.094	1.00	0.00	C
ATOM	7680	C	THR	808	39.495	75.530	38.560	1.00	0.00	C
ATOM	7681	O	THR	808	39.165	76.664	38.897	1.00	0.00	O
ATOM	7682	N	GLU	809	39.841	74.582	39.445	1.00	0.00	N
ATOM	7683	HN	GLU	809	40.132	73.649	39.154	1.00	0.00	H
ATOM	7684	CA	GLU	809	39.776	74.960	40.805	1.00	0.00	C
ATOM	7685	CB	GLU	809	40.023	73.838	41.842	1.00	0.00	C
ATOM	7686	CG	GLU	809	41.454	73.321	41.977	1.00	0.00	C
ATOM	7687	CD	GLU	809	41.467	72.238	43.050	1.00	0.00	C
ATOM	7688	OE1	GLU	809	40.421	72.046	43.726	1.00	0.00	O
ATOM	7689	OE2	GLU	809	42.535	71.588	43.208	1.00	0.00	O
ATOM	7690	C	GLU	809	40.752	76.060	41.002	1.00	0.00	C
ATOM	7691	O	GLU	809	40.407	77.050	41.634	1.00	0.00	O
ATOM	7692	N	ALA	810	41.970	75.949	40.436	1.00	0.00	N
ATOM	7693	HN	ALA	810	42.222	75.125	39.891	1.00	0.00	H

ATOM	7694	CA	ALA	810	42.899	77.021	40.622	1.00	0.00	C
ATOM	7695	CB	ALA	810	44.321	76.672	40.152	1.00	0.00	C
ATOM	7696	C	ALA	810	42.485	78.269	39.896	1.00	0.00	C
ATOM	7697	O	ALA	810	42.271	79.305	40.509	1.00	0.00	O
ATOM	7698	N	ILE	811	42.255	78.202	38.576	1.00	0.00	N
ATOM	7699	HN	ILE	811	42.258	77.304	38.092	1.00	0.00	H
ATOM	7700	CA	ILE	811	42.005	79.420	37.860	1.00	0.00	C
ATOM	7701	CB	ILE	811	41.959	79.217	36.366	1.00	0.00	C
ATOM	7702	CG1	ILE	811	40.810	78.291	35.926	1.00	0.00	C
ATOM	7703	CG2	ILE	811	43.346	78.697	35.946	1.00	0.00	C
ATOM	7704	CD1	ILE	811	39.444	78.969	35.832	1.00	0.00	C
ATOM	7705	C	ILE	811	40.728	80.033	38.362	1.00	0.00	C
ATOM	7706	O	ILE	811	40.644	81.245	38.543	1.00	0.00	O
ATOM	7707	N	GLU	812	39.696	79.208	38.625	1.00	0.00	N
ATOM	7708	HN	GLU	812	39.812	78.202	38.505	1.00	0.00	H
ATOM	7709	CA	GLU	812	38.437	79.728	39.071	1.00	0.00	C
ATOM	7710	CB	GLU	812	37.272	78.736	39.195	1.00	0.00	C
ATOM	7711	CG	GLU	812	35.989	79.502	39.553	1.00	0.00	C
ATOM	7712	CD	GLU	812	34.788	78.571	39.592	1.00	0.00	C
ATOM	7713	OE1	GLU	812	34.990	77.330	39.524	1.00	0.00	O
ATOM	7714	OE2	GLU	812	33.646	79.095	39.692	1.00	0.00	O
ATOM	7715	C	GLU	812	38.644	80.303	40.402	1.00	0.00	C
ATOM	7716	O	GLU	812	37.914	81.192	40.833	1.00	0.00	O
ATOM	7717	N	ASN	813	39.614	79.742	41.120	1.00	0.00	N
ATOM	7718	HN	ASN	813	40.160	78.964	40.749	1.00	0.00	H
ATOM	7719	CA	ASN	813	39.864	80.256	42.409	1.00	0.00	C
ATOM	7720	CB	ASN	813	39.958	79.169	43.492	1.00	0.00	C
ATOM	7721	CG	ASN	813	38.562	78.587	43.685	1.00	0.00	C
ATOM	7722	OD1	ASN	813	37.573	79.313	43.774	1.00	0.00	O
ATOM	7723	ND2	ASN	813	38.478	77.231	43.746	1.00	0.00	N
ATOM	7724	1HD2	ASN	813	37.544	76.842	43.875	1.00	0.00	H
ATOM	7725	2HD2	ASN	813	39.298	76.629	43.672	1.00	0.00	H
ATOM	7726	C	ASN	813	41.159	80.977	42.355	1.00	0.00	C
ATOM	7727	O	ASN	813	42.144	80.486	42.893	1.00	0.00	O
ATOM	7728	N	PHE	814	41.158	82.251	41.874	1.00	0.00	N
ATOM	7729	HN	PHE	814	40.265	82.621	41.547	1.00	0.00	H
ATOM	7730	CA	PHE	814	42.306	83.129	41.783	1.00	0.00	C
ATOM	7731	CB	PHE	814	42.056	84.497	41.110	1.00	0.00	C
ATOM	7732	CG	PHE	814	41.218	85.393	41.961	1.00	0.00	C
ATOM	7733	CD1	PHE	814	41.777	86.132	42.984	1.00	0.00	C
ATOM	7734	CD2	PHE	814	39.874	85.531	41.710	1.00	0.00	C
ATOM	7735	CE1	PHE	814	41.012	86.965	43.763	1.00	0.00	C
ATOM	7736	CE2	PHE	814	39.101	86.365	42.483	1.00	0.00	C
ATOM	7737	CZ	PHE	814	39.666	87.080	43.513	1.00	0.00	C
ATOM	7738	C	PHE	814	42.741	83.377	43.185	1.00	0.00	C
ATOM	7739	O	PHE	814	43.788	83.964	43.452	1.00	0.00	O
ATOM	7740	N	ARG	815	41.883	82.926	44.112	1.00	0.00	N
ATOM	7741	HN	ARG	815	41.021	82.531	43.737	1.00	0.00	H
ATOM	7742	CA	ARG	815	41.974	82.907	45.516	1.00	0.00	C
ATOM	7743	CB	ARG	815	40.918	82.092	46.296	1.00	0.00	C
ATOM	7744	CG	ARG	815	39.492	82.632	46.387	1.00	0.00	C
ATOM	7745	CD	ARG	815	38.531	82.116	45.321	1.00	0.00	C
ATOM	7746	NE	ARG	815	38.702	82.905	44.079	1.00	0.00	N
ATOM	7747	HE	ARG	815	39.504	83.522	43.952	1.00	0.00	H
ATOM	7748	CZ	ARG	815	37.751	82.778	43.112	1.00	0.00	C
ATOM	7749	NH1	ARG	815	36.745	81.869	43.278	1.00	0.00	N
ATOM	7750	1HH1	ARG	815	36.708	81.278	44.108	1.00	0.00	H
ATOM	7751	2HH1	ARG	815	36.033	81.774	42.554	1.00	0.00	H
ATOM	7752	NH2	ARG	815	37.801	83.568	42.002	1.00	0.00	N
ATOM	7753	1HH2	ARG	815	38.552	84.247	41.878	1.00	0.00	H
ATOM	7754	2HH2	ARG	815	37.089	83.473	41.278	1.00	0.00	H
ATOM	7755	C	ARG	815	43.243	82.222	45.923	1.00	0.00	C
ATOM	7756	O	ARG	815	43.429	81.960	47.105	1.00	0.00	O
ATOM	7757	N	THR	816	43.964	81.619	44.971	1.00	0.00	N
ATOM	7758	HN	THR	816	43.539	81.533	44.048	1.00	0.00	H
ATOM	7759	CA	THR	816	45.280	81.085	45.139	1.00	0.00	C
ATOM	7760	CB	THR	816	45.595	80.125	44.037	1.00	0.00	C
ATOM	7761	OG1	THR	816	46.941	79.687	44.139	1.00	0.00	O
ATOM	7762	HG1	THR	816	47.100	79.263	44.974	1.00	0.00	H
ATOM	7763	CG2	THR	816	45.338	80.812	42.685	1.00	0.00	C
ATOM	7764	C	THR	816	46.345	82.138	45.121	1.00	0.00	C
ATOM	7765	O	THR	816	47.140	82.227	46.050	1.00	0.00	O
ATOM	7766	N	VAL	817	46.322	83.044	44.107	1.00	0.00	N
ATOM	7767	HN	VAL	817	45.533	83.001	43.462	1.00	0.00	H

ATOM	7768	CA	VAL	817	47.314	84.059	43.865	1.00	0.00	C
ATOM	7769	CB	VAL	817	47.075	84.909	42.650	1.00	0.00	C
ATOM	7770	CG1	VAL	817	46.816	83.976	41.462	1.00	0.00	C
ATOM	7771	CG2	VAL	817	45.986	85.947	42.927	1.00	0.00	C
ATOM	7772	C	VAL	817	47.223	84.920	45.060	1.00	0.00	C
ATOM	7773	O	VAL	817	48.124	85.696	45.366	1.00	0.00	O
ATOM	7774	N	VAL	818	46.075	84.816	45.746	1.00	0.00	N
ATOM	7775	HN	VAL	818	45.332	84.204	45.409	1.00	0.00	H
ATOM	7776	CA	VAL	818	45.899	85.553	46.932	1.00	0.00	C
ATOM	7777	CB	VAL	818	44.593	85.328	47.647	1.00	0.00	C
ATOM	7778	CG1	VAL	818	44.619	84.009	48.422	1.00	0.00	C
ATOM	7779	CG2	VAL	818	44.349	86.532	48.563	1.00	0.00	C
ATOM	7780	C	VAL	818	47.033	85.224	47.850	1.00	0.00	C
ATOM	7781	O	VAL	818	47.560	86.131	48.483	1.00	0.00	O
ATOM	7782	N	SER	819	47.383	83.929	48.021	1.00	0.00	N
ATOM	7783	HN	SER	819	46.826	83.212	47.557	1.00	0.00	H
ATOM	7784	CA	SER	819	48.499	83.513	48.822	1.00	0.00	C
ATOM	7785	CB	SER	819	48.211	82.177	49.513	1.00	0.00	C
ATOM	7786	OG	SER	819	49.270	81.851	50.391	1.00	0.00	O
ATOM	7787	HG	SER	819	49.091	81.022	50.820	1.00	0.00	H
ATOM	7788	C	SER	819	49.743	83.361	47.978	1.00	0.00	C
ATOM	7789	O	SER	819	50.856	83.645	48.414	1.00	0.00	O
ATOM	7790	N	LEU	820	49.571	82.833	46.750	1.00	0.00	N
ATOM	7791	HN	LEU	820	48.618	82.574	46.494	1.00	0.00	H
ATOM	7792	CA	LEU	820	50.590	82.596	45.762	1.00	0.00	C
ATOM	7793	CB	LEU	820	51.251	83.932	45.337	1.00	0.00	C
ATOM	7794	CG	LEU	820	52.255	83.891	44.164	1.00	0.00	C
ATOM	7795	CD1	LEU	820	52.422	85.290	43.549	1.00	0.00	C
ATOM	7796	CD2	LEU	820	53.633	83.367	44.599	1.00	0.00	C
ATOM	7797	C	LEU	820	51.537	81.549	46.296	1.00	0.00	C
ATOM	7798	O	LEU	820	52.501	81.134	45.655	1.00	0.00	O
ATOM	7799	N	THR	821	51.186	80.989	47.461	1.00	0.00	N
ATOM	7800	HN	THR	821	50.306	81.282	47.885	1.00	0.00	H
ATOM	7801	CA	THR	821	51.966	80.006	48.149	1.00	0.00	C
ATOM	7802	CB	THR	821	51.577	79.799	49.585	1.00	0.00	C
ATOM	7803	OG1	THR	821	50.196	79.490	49.694	1.00	0.00	O
ATOM	7804	HG1	THR	821	49.950	79.359	50.602	1.00	0.00	H
ATOM	7805	CG2	THR	821	51.933	81.066	50.380	1.00	0.00	C
ATOM	7806	C	THR	821	52.024	78.662	47.448	1.00	0.00	C
ATOM	7807	O	THR	821	52.626	77.773	48.041	1.00	0.00	O
ATOM	7808	N	GLN	822	51.171	78.360	46.424	1.00	0.00	N
ATOM	7809	HN	GLN	822	50.424	79.025	46.221	1.00	0.00	H
ATOM	7810	CA	GLN	822	51.247	77.158	45.598	1.00	0.00	C
ATOM	7811	CB	GLN	822	49.933	76.382	45.586	1.00	0.00	C
ATOM	7812	CG	GLN	822	49.572	75.946	46.999	1.00	0.00	C
ATOM	7813	CD	GLN	822	50.794	75.256	47.593	1.00	0.00	C
ATOM	7814	OE1	GLN	822	51.313	75.676	48.625	1.00	0.00	O
ATOM	7815	NE2	GLN	822	51.274	74.171	46.932	1.00	0.00	N
ATOM	7816	1HE2	GLN	822	52.092	73.709	47.330	1.00	0.00	H
ATOM	7817	2HE2	GLN	822	50.843	73.822	46.076	1.00	0.00	H
ATOM	7818	C	GLN	822	51.759	77.233	44.164	1.00	0.00	C
ATOM	7819	O	GLN	822	52.272	76.242	43.653	1.00	0.00	O
ATOM	7820	N	GLU	823	51.540	78.369	43.458	1.00	0.00	N
ATOM	7821	HN	GLU	823	51.168	79.153	43.994	1.00	0.00	H
ATOM	7822	CA	GLU	823	51.761	78.628	42.042	1.00	0.00	C
ATOM	7823	CB	GLU	823	52.760	79.769	41.779	1.00	0.00	C
ATOM	7824	CG	GLU	823	52.293	81.132	42.311	1.00	0.00	C
ATOM	7825	CD	GLU	823	50.981	81.565	41.652	1.00	0.00	C
ATOM	7826	OE1	GLU	823	50.093	80.701	41.422	1.00	0.00	O
ATOM	7827	OE2	GLU	823	50.842	82.791	41.395	1.00	0.00	O
ATOM	7828	C	GLU	823	52.141	77.432	41.203	1.00	0.00	C
ATOM	7829	O	GLU	823	51.323	76.576	40.854	1.00	0.00	O
ATOM	7830	N	GLN	824	53.422	77.371	40.813	1.00	0.00	N
ATOM	7831	HN	GLN	824	54.080	78.082	41.132	1.00	0.00	H
ATOM	7832	CA	GLN	824	53.878	76.321	39.954	1.00	0.00	C
ATOM	7833	CB	GLN	824	55.392	76.408	39.705	1.00	0.00	C
ATOM	7834	CG	GLN	824	55.888	75.409	38.663	1.00	0.00	C
ATOM	7835	CD	GLN	824	55.260	75.789	37.330	1.00	0.00	C
ATOM	7836	OE1	GLN	824	55.351	76.934	36.889	1.00	0.00	O
ATOM	7837	NE2	GLN	824	54.595	74.802	36.672	1.00	0.00	N
ATOM	7838	1HE2	GLN	824	54.520	73.853	37.038	1.00	0.00	H
ATOM	7839	2HE2	GLN	824	54.174	75.057	35.779	1.00	0.00	H
ATOM	7840	C	GLN	824	53.592	75.022	40.623	1.00	0.00	C
ATOM	7841	O	GLN	824	53.141	74.082	39.966	1.00	0.00	O

ATOM	7842	N	LYS	825	53.777	74.978	41.959	1.00	0.00	N
ATOM	7843	HN	LYS	825	54.075	75.826	42.441	1.00	0.00	H
ATOM	7844	CA	LYS	825	53.570	73.783	42.727	1.00	0.00	C
ATOM	7845	CB	LYS	825	53.699	73.990	44.250	1.00	0.00	C
ATOM	7846	CG	LYS	825	53.497	72.734	45.108	1.00	0.00	C
ATOM	7847	CD	LYS	825	52.080	72.150	45.073	1.00	0.00	C
ATOM	7848	CE	LYS	825	51.801	71.133	46.179	1.00	0.00	C
ATOM	7849	NZ	LYS	825	50.342	70.939	46.326	1.00	0.00	N
ATOM	7850	HZ1	LYS	825	50.156	70.260	47.064	1.00	0.00	H
ATOM	7851	HZ2	LYS	825	49.899	70.678	45.445	1.00	0.00	H
ATOM	7852	HZ3	LYS	825	49.852	71.820	46.483	1.00	0.00	H
ATOM	7853	C	LYS	825	52.188	73.333	42.389	1.00	0.00	C
ATOM	7854	O	LYS	825	51.904	72.137	42.331	1.00	0.00	O
ATOM	7855	N	PHE	826	51.291	74.302	42.152	1.00	0.00	N
ATOM	7856	HN	PHE	826	51.574	75.281	42.202	1.00	0.00	H
ATOM	7857	CA	PHE	826	49.941	73.967	41.830	1.00	0.00	C
ATOM	7858	CB	PHE	826	49.072	75.220	41.664	1.00	0.00	C
ATOM	7859	CG	PHE	826	47.864	75.077	42.522	1.00	0.00	C
ATOM	7860	CD1	PHE	826	46.948	74.068	42.346	1.00	0.00	C
ATOM	7861	CD2	PHE	826	47.684	75.953	43.566	1.00	0.00	C
ATOM	7862	CE1	PHE	826	45.853	73.967	43.175	1.00	0.00	C
ATOM	7863	CE2	PHE	826	46.593	75.859	44.394	1.00	0.00	C
ATOM	7864	CZ	PHE	826	45.669	74.865	44.198	1.00	0.00	C
ATOM	7865	C	PHE	826	49.811	73.244	40.525	1.00	0.00	C
ATOM	7866	O	PHE	826	49.639	72.029	40.502	1.00	0.00	O
ATOM	7867	N	GLU	827	50.062	73.956	39.405	1.00	0.00	N
ATOM	7868	HN	GLU	827	50.446	74.895	39.507	1.00	0.00	H
ATOM	7869	CA	GLU	827	49.817	73.462	38.072	1.00	0.00	C
ATOM	7870	CB	GLU	827	50.239	74.485	37.007	1.00	0.00	C
ATOM	7871	CG	GLU	827	49.393	74.401	35.745	1.00	0.00	C
ATOM	7872	CD	GLU	827	47.994	74.824	36.167	1.00	0.00	C
ATOM	7873	OE1	GLU	827	47.860	75.919	36.776	1.00	0.00	O
ATOM	7874	OE2	GLU	827	47.040	74.046	35.906	1.00	0.00	O
ATOM	7875	C	GLU	827	50.663	72.249	37.947	1.00	0.00	C
ATOM	7876	O	GLU	827	50.384	71.351	37.151	1.00	0.00	O
ATOM	7877	N	HIS	828	51.746	72.229	38.745	1.00	0.00	N
ATOM	7878	HN	HIS	828	51.915	73.025	39.359	1.00	0.00	H
ATOM	7879	CA	HIS	828	52.670	71.138	38.768	1.00	0.00	C
ATOM	7880	ND1	HIS	828	55.859	69.985	39.129	1.00	0.00	N
ATOM	7881	HD1	HIS	828	56.245	70.657	38.466	1.00	0.00	H
ATOM	7882	CG	HIS	828	54.697	70.125	39.861	1.00	0.00	C
ATOM	7883	CB	HIS	828	53.792	71.319	39.798	1.00	0.00	C
ATOM	7884	NE2	HIS	828	55.651	68.137	40.351	1.00	0.00	N
ATOM	7885	HE2	HIS	828	55.827	67.220	40.762	1.00	0.00	H
ATOM	7886	CD2	HIS	828	54.588	68.987	40.598	1.00	0.00	C
ATOM	7887	CE1	HIS	828	56.387	68.782	39.461	1.00	0.00	C
ATOM	7888	C	HIS	828	51.979	69.871	39.150	1.00	0.00	C
ATOM	7889	O	HIS	828	52.154	68.844	38.497	1.00	0.00	O
ATOM	7890	N	MET	829	51.144	69.915	40.200	1.00	0.00	N
ATOM	7891	HN	MET	829	50.979	70.799	40.682	1.00	0.00	H
ATOM	7892	CA	MET	829	50.483	68.725	40.647	1.00	0.00	C
ATOM	7893	CB	MET	829	49.578	68.984	41.866	1.00	0.00	C
ATOM	7894	CG	MET	829	48.358	69.856	41.574	1.00	0.00	C
ATOM	7895	SD	MET	829	47.699	70.739	43.022	1.00	0.00	S
ATOM	7896	CE	MET	829	47.432	69.277	44.063	1.00	0.00	C
ATOM	7897	C	MET	829	49.669	68.243	39.485	1.00	0.00	C
ATOM	7898	O	MET	829	49.503	67.045	39.262	1.00	0.00	O
ATOM	7899	N	TYR	830	49.151	69.196	38.697	1.00	0.00	N
ATOM	7900	HN	TYR	830	49.340	70.170	38.934	1.00	0.00	H
ATOM	7901	CA	TYR	830	48.344	68.927	37.536	1.00	0.00	C
ATOM	7902	CB	TYR	830	47.861	70.202	36.815	1.00	0.00	C
ATOM	7903	CG	TYR	830	47.013	71.013	37.728	1.00	0.00	C
ATOM	7904	CD1	TYR	830	47.534	71.474	38.902	1.00	0.00	C
ATOM	7905	CD2	TYR	830	45.732	71.374	37.417	1.00	0.00	C
ATOM	7906	CE1	TYR	830	46.845	72.240	39.802	1.00	0.00	C
ATOM	7907	CE2	TYR	830	45.030	72.145	38.312	1.00	0.00	C
ATOM	7908	CZ	TYR	830	45.561	72.579	39.498	1.00	0.00	C
ATOM	7909	OH	TYR	830	44.811	73.369	40.393	1.00	0.00	O
ATOM	7910	HH	TYR	830	45.179	73.670	41.215	1.00	0.00	H
ATOM	7911	C	TYR	830	49.184	68.238	36.520	1.00	0.00	C
ATOM	7912	O	TYR	830	48.698	67.391	35.773	1.00	0.00	O
ATOM	7913	N	ALA	831	50.471	68.617	36.435	1.00	0.00	N
ATOM	7914	HN	ALA	831	50.856	69.293	37.095	1.00	0.00	H
ATOM	7915	CA	ALA	831	51.293	68.057	35.404	1.00	0.00	C

ATOM	7916	CB	ALA	831	52.747	68.555	35.469	1.00	0.00	C
ATOM	7917	C	ALA	831	51.309	66.578	35.583	1.00	0.00	C
ATOM	7918	O	ALA	831	51.257	65.822	34.613	1.00	0.00	O
ATOM	7919	N	GLN	832	51.389	66.125	36.842	1.00	0.00	N
ATOM	7920	HN	GLN	832	51.410	66.776	37.627	1.00	0.00	H
ATOM	7921	CA	GLN	832	51.444	64.715	37.067	1.00	0.00	C
ATOM	7922	CB	GLN	832	51.792	64.373	38.519	1.00	0.00	C
ATOM	7923	CG	GLN	832	53.127	64.988	38.950	1.00	0.00	C
ATOM	7924	CD	GLN	832	54.215	64.530	37.984	1.00	0.00	C
ATOM	7925	OE1	GLN	832	54.172	64.831	36.791	1.00	0.00	O
ATOM	7926	NE2	GLN	832	55.225	63.785	38.508	1.00	0.00	N
ATOM	7927	1HE2	GLN	832	55.261	63.536	39.496	1.00	0.00	H
ATOM	7928	2HE2	GLN	832	55.953	63.479	37.862	1.00	0.00	H
ATOM	7929	C	GLN	832	50.140	64.078	36.708	1.00	0.00	C
ATOM	7930	O	GLN	832	50.104	63.023	36.073	1.00	0.00	O
ATOM	7931	N	SER	833	49.029	64.738	37.076	1.00	0.00	N
ATOM	7932	HN	SER	833	49.122	65.651	37.520	1.00	0.00	H
ATOM	7933	CA	SER	833	47.717	64.201	36.865	1.00	0.00	C
ATOM	7934	CB	SER	833	46.627	65.239	37.165	1.00	0.00	C
ATOM	7935	OG	SER	833	46.848	65.809	38.444	1.00	0.00	O
ATOM	7936	HG	SER	833	46.173	66.452	38.630	1.00	0.00	H
ATOM	7937	C	SER	833	47.594	63.886	35.419	1.00	0.00	C
ATOM	7938	O	SER	833	47.331	62.742	35.064	1.00	0.00	O
ATOM	7939	N	LEU	834	47.891	64.866	34.549	1.00	0.00	N
ATOM	7940	HN	LEU	834	48.247	65.757	34.896	1.00	0.00	H
ATOM	7941	CA	LEU	834	47.714	64.675	33.140	1.00	0.00	C
ATOM	7942	CB	LEU	834	48.214	65.840	32.259	1.00	0.00	C
ATOM	7943	CG	LEU	834	47.316	67.095	32.179	1.00	0.00	C
ATOM	7944	CD1	LEU	834	45.973	66.778	31.501	1.00	0.00	C
ATOM	7945	CD2	LEU	834	47.167	67.801	33.533	1.00	0.00	C
ATOM	7946	C	LEU	834	48.502	63.493	32.709	1.00	0.00	C
ATOM	7947	O	LEU	834	48.009	62.687	31.922	1.00	0.00	O
ATOM	7948	N	GLN	835	49.703	63.324	33.288	1.00	0.00	N
ATOM	7949	HN	GLN	835	49.965	63.940	34.057	1.00	0.00	H
ATOM	7950	CA	GLN	835	50.632	62.314	32.870	1.00	0.00	C
ATOM	7951	CB	GLN	835	51.746	62.190	33.920	1.00	0.00	C
ATOM	7952	CG	GLN	835	52.721	61.033	33.735	1.00	0.00	C
ATOM	7953	CD	GLN	835	53.648	61.075	34.945	1.00	0.00	C
ATOM	7954	OE1	GLN	835	54.828	61.402	34.835	1.00	0.00	O
ATOM	7955	NE2	GLN	835	53.090	60.750	36.142	1.00	0.00	N
ATOM	7956	1HE2	GLN	835	52.111	60.479	36.233	1.00	0.00	H
ATOM	7957	2HE2	GLN	835	53.710	60.778	36.951	1.00	0.00	H
ATOM	7958	C	GLN	835	49.934	60.988	32.809	1.00	0.00	C
ATOM	7959	O	GLN	835	49.988	60.302	31.787	1.00	0.00	O
ATOM	7960	N	VAL	836	49.212	60.612	33.878	1.00	0.00	N
ATOM	7961	HN	VAL	836	49.145	61.215	34.698	1.00	0.00	H
ATOM	7962	CA	VAL	836	48.536	59.346	33.845	1.00	0.00	C
ATOM	7963	CB	VAL	836	48.059	58.893	35.211	1.00	0.00	C
ATOM	7964	CG1	VAL	836	47.722	60.098	36.111	1.00	0.00	C
ATOM	7965	CG2	VAL	836	46.881	57.924	35.011	1.00	0.00	C
ATOM	7966	C	VAL	836	47.448	59.299	32.802	1.00	0.00	C
ATOM	7967	O	VAL	836	47.442	58.361	31.998	1.00	0.00	O
ATOM	7968	N	PRO	837	46.541	60.230	32.692	1.00	0.00	N
ATOM	7969	CA	PRO	837	45.594	60.061	31.635	1.00	0.00	C
ATOM	7970	CD	PRO	837	45.840	60.721	33.864	1.00	0.00	C
ATOM	7971	CB	PRO	837	44.463	61.043	31.907	1.00	0.00	C
ATOM	7972	CG	PRO	837	44.406	61.063	33.437	1.00	0.00	C
ATOM	7973	C	PRO	837	46.187	60.166	30.278	1.00	0.00	C
ATOM	7974	O	PRO	837	45.495	59.829	29.319	1.00	0.00	O
ATOM	7975	N	TYR	838	47.422	60.679	30.156	1.00	0.00	N
ATOM	7976	HN	TYR	838	47.941	60.966	30.986	1.00	0.00	H
ATOM	7977	CA	TYR	838	48.008	60.822	28.855	1.00	0.00	C
ATOM	7978	CB	TYR	838	49.287	61.679	28.911	1.00	0.00	C
ATOM	7979	CG	TYR	838	49.671	61.990	27.510	1.00	0.00	C
ATOM	7980	CD1	TYR	838	48.987	62.964	26.822	1.00	0.00	C
ATOM	7981	CD2	TYR	838	50.679	61.304	26.877	1.00	0.00	C
ATOM	7982	CE1	TYR	838	49.310	63.268	25.524	1.00	0.00	C
ATOM	7983	CE2	TYR	838	51.008	61.605	25.577	1.00	0.00	C
ATOM	7984	CZ	TYR	838	50.325	62.588	24.901	1.00	0.00	C
ATOM	7985	OH	TYR	838	50.654	62.902	23.567	1.00	0.00	O
ATOM	7986	HH	TYR	838	51.357	62.431	23.135	1.00	0.00	H
ATOM	7987	C	TYR	838	48.324	59.473	28.271	1.00	0.00	C
ATOM	7988	O	TYR	838	47.957	59.175	27.133	1.00	0.00	O
ATOM	7989	N	ARG	839	48.983	58.599	29.058	1.00	0.00	N

ATOM	7990	HN	ARG	839	49.210	58.851	30.020	1.00	0.00	H
ATOM	7991	CA	ARG	839	49.366	57.312	28.543	1.00	0.00	C
ATOM	7992	CB	ARG	839	50.116	56.463	29.585	1.00	0.00	C
ATOM	7993	CG	ARG	839	51.529	56.962	29.882	1.00	0.00	C
ATOM	7994	CD	ARG	839	52.134	56.341	31.140	1.00	0.00	C
ATOM	7995	NE	ARG	839	51.328	56.843	32.287	1.00	0.00	N
ATOM	7996	HE	ARG	839	50.309	56.812	32.251	1.00	0.00	H
ATOM	7997	CZ	ARG	839	51.961	57.344	33.386	1.00	0.00	C
ATOM	7998	NH1	ARG	839	53.325	57.345	33.434	1.00	0.00	N
ATOM	7999	1HH1	ARG	839	53.798	57.720	34.256	1.00	0.00	H
ATOM	8000	2HH1	ARG	839	53.866	56.964	32.658	1.00	0.00	H
ATOM	8001	NH2	ARG	839	51.237	57.853	34.424	1.00	0.00	N
ATOM	8002	1HH2	ARG	839	51.710	58.228	35.246	1.00	0.00	H
ATOM	8003	2HH2	ARG	839	50.218	57.852	34.388	1.00	0.00	H
ATOM	8004	C	ARG	839	48.116	56.580	28.191	1.00	0.00	C
ATOM	8005	O	ARG	839	47.983	55.992	27.117	1.00	0.00	O
ATOM	8006	N	ASN	840	47.138	56.672	29.100	1.00	0.00	N
ATOM	8007	HN	ASN	840	47.305	57.246	29.926	1.00	0.00	H
ATOM	8008	CA	ASN	840	45.873	56.015	28.984	1.00	0.00	C
ATOM	8009	CB	ASN	840	44.957	56.409	30.158	1.00	0.00	C
ATOM	8010	CG	ASN	840	43.550	55.887	29.915	1.00	0.00	C
ATOM	8011	OD1	ASN	840	42.799	56.451	29.122	1.00	0.00	O
ATOM	8012	ND2	ASN	840	43.177	54.790	30.624	1.00	0.00	N
ATOM	8013	1HD2	ASN	840	43.800	54.322	31.282	1.00	0.00	H
ATOM	8014	2HD2	ASN	840	42.233	54.440	30.461	1.00	0.00	H
ATOM	8015	C	ASN	840	45.216	56.459	27.712	1.00	0.00	C
ATOM	8016	O	ASN	840	44.563	55.667	27.034	1.00	0.00	O
ATOM	8017	N	SER	841	45.383	57.745	27.354	1.00	0.00	N
ATOM	8018	HN	SER	841	45.994	58.340	27.914	1.00	0.00	H
ATOM	8019	CA	SER	841	44.724	58.304	26.204	1.00	0.00	C
ATOM	8020	CB	SER	841	44.993	59.809	26.041	1.00	0.00	C
ATOM	8021	OG	SER	841	44.296	60.313	24.911	1.00	0.00	O
ATOM	8022	HG	SER	841	44.462	61.243	24.810	1.00	0.00	H
ATOM	8023	C	SER	841	45.163	57.623	24.949	1.00	0.00	C
ATOM	8024	O	SER	841	44.332	57.320	24.095	1.00	0.00	O
ATOM	8025	N	LEU	842	46.469	57.333	24.801	1.00	0.00	N
ATOM	8026	HN	LEU	842	47.133	57.523	25.552	1.00	0.00	H
ATOM	8027	CA	LEU	842	46.909	56.751	23.564	1.00	0.00	C
ATOM	8028	CB	LEU	842	48.426	56.498	23.502	1.00	0.00	C
ATOM	8029	CG	LEU	842	49.258	57.793	23.492	1.00	0.00	C
ATOM	8030	CD1	LEU	842	50.747	57.502	23.240	1.00	0.00	C
ATOM	8031	CD2	LEU	842	48.675	58.816	22.505	1.00	0.00	C
ATOM	8032	C	LEU	842	46.219	55.441	23.372	1.00	0.00	C
ATOM	8033	O	LEU	842	45.768	55.111	22.275	1.00	0.00	O
ATOM	8034	N	ARG	843	46.100	54.668	24.459	1.00	0.00	N
ATOM	8035	HN	ARG	843	46.444	55.017	25.354	1.00	0.00	H
ATOM	8036	CA	ARG	843	45.505	53.369	24.404	1.00	0.00	C
ATOM	8037	CB	ARG	843	45.436	52.813	25.832	1.00	0.00	C
ATOM	8038	CG	ARG	843	44.761	51.460	25.999	1.00	0.00	C
ATOM	8039	CD	ARG	843	44.723	51.050	27.470	1.00	0.00	C
ATOM	8040	NE	ARG	843	46.140	50.948	27.916	1.00	0.00	N
ATOM	8041	HE	ARG	843	46.811	50.424	27.355	1.00	0.00	H
ATOM	8042	CZ	ARG	843	46.547	51.551	29.070	1.00	0.00	C
ATOM	8043	NH1	ARG	843	45.651	52.235	29.840	1.00	0.00	N
ATOM	8044	1HH1	ARG	843	45.955	52.686	30.703	1.00	0.00	H
ATOM	8045	2HH1	ARG	843	44.671	52.285	29.560	1.00	0.00	H
ATOM	8046	NH2	ARG	843	47.859	51.484	29.445	1.00	0.00	N
ATOM	8047	1HH2	ARG	843	48.163	51.935	30.308	1.00	0.00	H
ATOM	8048	2HH2	ARG	843	48.528	50.973	28.870	1.00	0.00	H
ATOM	8049	C	ARG	843	44.102	53.487	23.885	1.00	0.00	C
ATOM	8050	O	ARG	843	43.738	52.881	22.877	1.00	0.00	O
ATOM	8051	N	LYS	844	43.297	54.355	24.514	1.00	0.00	N
ATOM	8052	HN	LYS	844	43.675	54.937	25.262	1.00	0.00	H
ATOM	8053	CA	LYS	844	41.915	54.481	24.155	1.00	0.00	C
ATOM	8054	CB	LYS	844	41.132	55.443	25.067	1.00	0.00	C
ATOM	8055	CG	LYS	844	41.581	56.902	24.993	1.00	0.00	C
ATOM	8056	CD	LYS	844	40.636	57.854	25.729	1.00	0.00	C
ATOM	8057	CE	LYS	844	41.037	59.325	25.624	1.00	0.00	C
ATOM	8058	NZ	LYS	844	40.611	59.864	24.314	1.00	0.00	N
ATOM	8059	HZ1	LYS	844	40.879	60.846	24.244	1.00	0.00	H
ATOM	8060	HZ2	LYS	844	39.615	59.724	24.146	1.00	0.00	H
ATOM	8061	HZ3	LYS	844	40.970	59.311	23.536	1.00	0.00	H
ATOM	8062	C	LYS	844	41.815	54.953	22.747	1.00	0.00	C
ATOM	8063	O	LYS	844	40.804	54.708	22.097	1.00	0.00	O

ATOM	8064	N	ALA	845	42.832	55.673	22.239	1.00	0.00	N
ATOM	8065	HN	ALA	845	43.643	55.903	22.813	1.00	0.00	H
ATOM	8066	CA	ALA	845	42.753	56.111	20.873	1.00	0.00	C
ATOM	8067	CB	ALA	845	44.073	56.736	20.407	1.00	0.00	C
ATOM	8068	C	ALA	845	42.598	54.865	20.064	1.00	0.00	C
ATOM	8069	O	ALA	845	41.662	54.713	19.281	1.00	0.00	O
ATOM	8070	N	HIS	846	43.451	53.878	20.364	1.00	0.00	N
ATOM	8071	HN	HIS	846	44.121	54.022	21.119	1.00	0.00	H
ATOM	8072	CA	HIS	846	43.460	52.630	19.668	1.00	0.00	C
ATOM	8073	ND1	HIS	846	43.208	49.407	20.313	1.00	0.00	N
ATOM	8074	HD1	HIS	846	42.437	49.674	20.925	1.00	0.00	H
ATOM	8075	CG	HIS	846	44.252	50.208	19.914	1.00	0.00	C
ATOM	8076	CB	HIS	846	44.407	51.632	20.363	1.00	0.00	C
ATOM	8077	NE2	HIS	846	44.493	48.160	18.998	1.00	0.00	N
ATOM	8078	HE2	HIS	846	44.860	47.373	18.464	1.00	0.00	H
ATOM	8079	CD2	HIS	846	45.031	49.430	19.109	1.00	0.00	C
ATOM	8080	CE1	HIS	846	43.399	48.193	19.737	1.00	0.00	C
ATOM	8081	C	HIS	846	42.091	52.036	19.731	1.00	0.00	C
ATOM	8082	O	HIS	846	41.541	51.612	18.716	1.00	0.00	O
ATOM	8083	N	ILE	847	41.481	52.026	20.925	1.00	0.00	N
ATOM	8084	HN	ILE	847	41.903	52.499	21.724	1.00	0.00	H
ATOM	8085	CA	ILE	847	40.230	51.343	21.064	1.00	0.00	C
ATOM	8086	CB	ILE	847	39.745	51.276	22.490	1.00	0.00	C
ATOM	8087	CG1	ILE	847	38.704	50.157	22.668	1.00	0.00	C
ATOM	8088	CG2	ILE	847	39.194	52.650	22.889	1.00	0.00	C
ATOM	8089	CD1	ILE	847	37.383	50.411	21.947	1.00	0.00	C
ATOM	8090	C	ILE	847	39.171	51.969	20.197	1.00	0.00	C
ATOM	8091	O	ILE	847	38.413	51.255	19.543	1.00	0.00	O
ATOM	8092	N	PHE	848	39.097	53.312	20.128	1.00	0.00	N
ATOM	8093	HN	PHE	848	39.783	53.887	20.617	1.00	0.00	H
ATOM	8094	CA	PHE	848	38.048	53.935	19.363	1.00	0.00	C
ATOM	8095	CB	PHE	848	38.060	55.475	19.420	1.00	0.00	C
ATOM	8096	CG	PHE	848	37.557	55.884	20.769	1.00	0.00	C
ATOM	8097	CD1	PHE	848	38.404	55.971	21.846	1.00	0.00	C
ATOM	8098	CD2	PHE	848	36.229	56.185	20.966	1.00	0.00	C
ATOM	8099	CE1	PHE	848	37.957	56.344	23.091	1.00	0.00	C
ATOM	8100	CE2	PHE	848	35.770	56.560	22.208	1.00	0.00	C
ATOM	8101	CZ	PHE	848	36.631	56.641	23.276	1.00	0.00	C
ATOM	8102	C	PHE	848	38.171	53.481	17.957	1.00	0.00	C
ATOM	8103	O	PHE	848	37.170	53.243	17.280	1.00	0.00	O
ATOM	8104	N	GLY	849	39.411	53.357	17.469	1.00	0.00	N
ATOM	8105	HN	GLY	849	40.230	53.554	18.045	1.00	0.00	H
ATOM	8106	CA	GLY	849	39.542	52.938	16.112	1.00	0.00	C
ATOM	8107	C	GLY	849	38.988	51.552	15.917	1.00	0.00	C
ATOM	8108	O	GLY	849	38.126	51.352	15.065	1.00	0.00	O
ATOM	8109	N	ILE	850	39.391	50.573	16.754	1.00	0.00	N
ATOM	8110	HN	ILE	850	39.965	50.804	17.565	1.00	0.00	H
ATOM	8111	CA	ILE	850	39.016	49.205	16.510	1.00	0.00	C
ATOM	8112	CB	ILE	850	39.556	48.256	17.547	1.00	0.00	C
ATOM	8113	CG1	ILE	850	39.272	46.800	17.141	1.00	0.00	C
ATOM	8114	CG2	ILE	850	38.994	48.650	18.920	1.00	0.00	C
ATOM	8115	CD1	ILE	850	40.009	45.769	17.996	1.00	0.00	C
ATOM	8116	C	ILE	850	37.527	49.104	16.490	1.00	0.00	C
ATOM	8117	O	ILE	850	36.954	48.458	15.613	1.00	0.00	O
ATOM	8118	N	THR	851	36.851	49.774	17.433	1.00	0.00	N
ATOM	8119	HN	THR	851	37.345	50.346	18.118	1.00	0.00	H
ATOM	8120	CA	THR	851	35.422	49.674	17.463	1.00	0.00	C
ATOM	8121	CB	THR	851	34.828	50.454	18.593	1.00	0.00	C
ATOM	8122	OG1	THR	851	35.221	51.815	18.491	1.00	0.00	O
ATOM	8123	HG1	THR	851	34.844	52.310	19.209	1.00	0.00	H
ATOM	8124	CG2	THR	851	35.315	49.855	19.921	1.00	0.00	C
ATOM	8125	C	THR	851	34.815	50.198	16.193	1.00	0.00	C
ATOM	8126	O	THR	851	34.107	49.473	15.499	1.00	0.00	O
ATOM	8127	N	PHE	852	35.162	51.438	15.803	1.00	0.00	N
ATOM	8128	HN	PHE	852	35.876	51.937	16.334	1.00	0.00	H
ATOM	8129	CA	PHE	852	34.565	52.090	14.664	1.00	0.00	C
ATOM	8130	CB	PHE	852	35.267	53.433	14.378	1.00	0.00	C
ATOM	8131	CG	PHE	852	34.842	53.996	13.065	1.00	0.00	C
ATOM	8132	CD1	PHE	852	33.613	54.592	12.918	1.00	0.00	C
ATOM	8133	CD2	PHE	852	35.674	53.914	11.971	1.00	0.00	C
ATOM	8134	CE1	PHE	852	33.229	55.112	11.704	1.00	0.00	C
ATOM	8135	CE2	PHE	852	35.296	54.433	10.754	1.00	0.00	C
ATOM	8136	CZ	PHE	852	34.070	55.037	10.618	1.00	0.00	C
ATOM	8137	C	PHE	852	34.708	51.195	13.471	1.00	0.00	C

ATOM	8138	O	PHE	852	33.738	50.943	12.752	1.00	0.00	O
ATOM	8139	N	SER	853	35.913	50.633	13.287	1.00	0.00	N
ATOM	8140	HN	SER	853	36.647	50.807	13.974	1.00	0.00	H
ATOM	8141	CA	SER	853	36.205	49.798	12.161	1.00	0.00	C
ATOM	8142	CB	SER	853	37.578	49.137	12.285	1.00	0.00	C
ATOM	8143	OG	SER	853	38.556	50.133	12.515	1.00	0.00	O
ATOM	8144	HG	SER	853	39.409	49.722	12.592	1.00	0.00	H
ATOM	8145	C	SER	853	35.240	48.665	12.128	1.00	0.00	C
ATOM	8146	O	SER	853	34.569	48.455	11.122	1.00	0.00	O
ATOM	8147	N	PHE	854	35.084	47.956	13.260	1.00	0.00	N
ATOM	8148	HN	PHE	854	35.548	48.268	14.113	1.00	0.00	H
ATOM	8149	CA	PHE	854	34.277	46.767	13.293	1.00	0.00	C
ATOM	8150	CB	PHE	854	34.108	46.129	14.684	1.00	0.00	C
ATOM	8151	CG	PHE	854	33.232	44.929	14.500	1.00	0.00	C
ATOM	8152	CD1	PHE	854	33.775	43.700	14.200	1.00	0.00	C
ATOM	8153	CD2	PHE	854	31.862	45.033	14.615	1.00	0.00	C
ATOM	8154	CE1	PHE	854	32.970	42.597	14.028	1.00	0.00	C
ATOM	8155	CE2	PHE	854	31.052	43.935	14.443	1.00	0.00	C
ATOM	8156	CZ	PHE	854	31.607	42.712	14.150	1.00	0.00	C
ATOM	8157	C	PHE	854	32.913	47.122	12.816	1.00	0.00	C
ATOM	8158	O	PHE	854	32.221	46.304	12.216	1.00	0.00	O
ATOM	8159	N	THR	855	32.478	48.359	13.086	1.00	0.00	N
ATOM	8160	HN	THR	855	33.066	49.015	13.599	1.00	0.00	H
ATOM	8161	CA	THR	855	31.173	48.745	12.642	1.00	0.00	C
ATOM	8162	CB	THR	855	30.840	50.160	13.015	1.00	0.00	C
ATOM	8163	OG1	THR	855	30.914	50.320	14.424	1.00	0.00	O
ATOM	8164	HG1	THR	855	31.792	50.121	14.727	1.00	0.00	H
ATOM	8165	CG2	THR	855	29.421	50.482	12.526	1.00	0.00	C
ATOM	8166	C	THR	855	31.115	48.651	11.145	1.00	0.00	C
ATOM	8167	O	THR	855	30.161	48.117	10.583	1.00	0.00	O
ATOM	8168	N	GLN	856	32.146	49.173	10.462	1.00	0.00	N
ATOM	8169	HN	GLN	856	32.924	49.569	10.989	1.00	0.00	H
ATOM	8170	CA	GLN	856	32.209	49.202	9.028	1.00	0.00	C
ATOM	8171	CB	GLN	856	33.361	50.086	8.538	1.00	0.00	C
ATOM	8172	CG	GLN	856	33.386	51.469	9.206	1.00	0.00	C
ATOM	8173	CD	GLN	856	31.987	52.075	9.215	1.00	0.00	C
ATOM	8174	OE1	GLN	856	31.073	51.558	9.856	1.00	0.00	O
ATOM	8175	NE2	GLN	856	31.821	53.220	8.500	1.00	0.00	N
ATOM	8176	1HE2	GLN	856	32.579	53.649	7.969	1.00	0.00	H
ATOM	8177	2HE2	GLN	856	30.885	53.625	8.506	1.00	0.00	H
ATOM	8178	C	GLN	856	32.384	47.809	8.485	1.00	0.00	C
ATOM	8179	O	GLN	856	31.904	47.494	7.396	1.00	0.00	O
ATOM	8180	N	ALA	857	33.102	46.938	9.221	1.00	0.00	N
ATOM										

ATOM	8212	CE2	TYR	860	33.664	41.302	4.988	1.00	0.00	C
ATOM	8213	CZ	TYR	860	34.242	41.746	6.152	1.00	0.00	C
ATOM	8214	OH	TYR	860	34.975	40.850	6.957	1.00	0.00	O
ATOM	8215	HH	TYR	860	35.375	41.157	7.762	1.00	0.00	H
ATOM	8216	C	TYR	860	30.027	43.220	4.490	1.00	0.00	C
ATOM	8217	O	TYR	860	29.369	42.613	3.645	1.00	0.00	O
ATOM	8218	N	PHE	861	30.236	42.743	5.739	1.00	0.00	N
ATOM	8219	HN	PHE	861	30.731	43.322	6.418	1.00	0.00	H
ATOM	8220	CA	PHE	861	29.775	41.436	6.131	1.00	0.00	C
ATOM	8221	CB	PHE	861	29.797	41.163	7.652	1.00	0.00	C
ATOM	8222	CG	PHE	861	31.126	40.759	8.192	1.00	0.00	C
ATOM	8223	CD1	PHE	861	32.055	41.682	8.607	1.00	0.00	C
ATOM	8224	CD2	PHE	861	31.423	39.421	8.316	1.00	0.00	C
ATOM	8225	CE1	PHE	861	33.266	41.278	9.115	1.00	0.00	C
ATOM	8226	CE2	PHE	861	32.631	39.006	8.823	1.00	0.00	C
ATOM	8227	CZ	PHE	861	33.557	39.939	9.222	1.00	0.00	C
ATOM	8228	C	PHE	861	28.322	41.376	5.829	1.00	0.00	C
ATOM	8229	O	PHE	861	27.858	40.459	5.155	1.00	0.00	O
ATOM	8230	N	SER	862	27.581	42.399	6.285	1.00	0.00	N
ATOM	8231	HN	SER	862	28.035	43.185	6.750	1.00	0.00	H
ATOM	8232	CA	SER	862	26.165	42.395	6.124	1.00	0.00	C
ATOM	8233	CB	SER	862	25.510	43.689	6.639	1.00	0.00	C
ATOM	8234	OG	SER	862	25.713	43.819	8.039	1.00	0.00	O
ATOM	8235	HG	SER	862	25.309	44.618	8.357	1.00	0.00	H
ATOM	8236	C	SER	862	25.835	42.261	4.671	1.00	0.00	C
ATOM	8237	O	SER	862	25.255	41.262	4.256	1.00	0.00	O
ATOM	8238	N	TYR	863	26.276	43.215	3.833	1.00	0.00	N
ATOM	8239	HN	TYR	863	26.912	43.938	4.169	1.00	0.00	H
ATOM	8240	CA	TYR	863	25.847	43.211	2.462	1.00	0.00	C
ATOM	8241	CB	TYR	863	26.486	44.336	1.625	1.00	0.00	C
ATOM	8242	CG	TYR	863	25.797	45.627	1.909	1.00	0.00	C
ATOM	8243	CD1	TYR	863	25.990	46.306	3.090	1.00	0.00	C
ATOM	8244	CD2	TYR	863	24.966	46.173	0.957	1.00	0.00	C
ATOM	8245	CE1	TYR	863	25.343	47.498	3.321	1.00	0.00	C
ATOM	8246	CE2	TYR	863	24.318	47.363	1.182	1.00	0.00	C
ATOM	8247	CZ	TYR	863	24.504	48.027	2.368	1.00	0.00	C
ATOM	8248	OH	TYR	863	23.840	49.250	2.602	1.00	0.00	O
ATOM	8249	HH	TYR	863	23.969	49.710	3.423	1.00	0.00	H
ATOM	8250	C	TYR	863	26.193	41.931	1.768	1.00	0.00	C
ATOM	8251	O	TYR	863	25.316	41.298	1.182	1.00	0.00	O
ATOM	8252	N	ALA	864	27.457	41.481	1.864	1.00	0.00	N
ATOM	8253	HN	ALA	864	28.117	41.941	2.492	1.00	0.00	H
ATOM	8254	CA	ALA	864	27.875	40.355	1.083	1.00	0.00	C
ATOM	8255	CB	ALA	864	29.327	39.964	1.345	1.00	0.00	C
ATOM	8256	C	ALA	864	27.078	39.144	1.412	1.00	0.00	C
ATOM	8257	O	ALA	864	26.537	38.493	0.520	1.00	0.00	O
ATOM	8258	N	GLY	865	26.936	38.838	2.711	1.00	0.00	N
ATOM	8259	HN	GLY	865	27.298	39.463	3.431	1.00	0.00	H
ATOM	8260	CA	GLY	865	26.270	37.625	3.072	1.00	0.00	C
ATOM	8261	C	GLY	865	24.884	37.692	2.536	1.00	0.00	C
ATOM	8262	O	GLY	865	24.373	36.713	1.993	1.00	0.00	O
ATOM	8263	N	CYS	866	24.249	38.871	2.651	1.00	0.00	N
ATOM	8264	HN	CYS	866	24.733	39.683	3.033	1.00	0.00	H
ATOM	8265	CA	CYS	866	22.888	38.972	2.232	1.00	0.00	C
ATOM	8266	CB	CYS	866	22.282	40.359	2.495	1.00	0.00	C
ATOM	8267	SG	CYS	866	22.125	40.723	4.270	1.00	0.00	S
ATOM	8268	C	CYS	866	22.742	38.673	0.772	1.00	0.00	C
ATOM	8269	O	CYS	866	22.067	37.721	0.390	1.00	0.00	O
ATOM	8270	N	PHE	867	23.439	39.424	-0.093	1.00	0.00	N
ATOM	8271	HN	PHE	867	24.104	40.118	0.249	1.00	0.00	H
ATOM	8272	CA	PHE	867	23.243	39.244	-1.500	1.00	0.00	C
ATOM	8273	CB	PHE	867	23.997	40.277	-2.350	1.00	0.00	C
ATOM	8274	CG	PHE	867	23.232	41.548	-2.190	1.00	0.00	C
ATOM	8275	CD1	PHE	867	22.153	41.805	-3.003	1.00	0.00	C
ATOM	8276	CD2	PHE	867	23.574	42.471	-1.228	1.00	0.00	C
ATOM	8277	CE1	PHE	867	21.431	42.966	-2.872	1.00	0.00	C
ATOM	8278	CE2	PHE	867	22.853	43.636	-1.092	1.00	0.00	C
ATOM	8279	CZ	PHE	867	21.780	43.886	-1.914	1.00	0.00	C
ATOM	8280	C	PHE	867	23.646	37.862	-1.884	1.00	0.00	C
ATOM	8281	O	PHE	867	23.008	37.248	-2.738	1.00	0.00	O
ATOM	8282	N	ARG	868	24.732	37.327	-1.300	1.00	0.00	N
ATOM	8283	HN	ARG	868	25.276	37.815	-0.588	1.00	0.00	H
ATOM	8284	CA	ARG	868	25.059	36.015	-1.762	1.00	0.00	C
ATOM	8285	CB	ARG	868	26.448	35.481	-1.382	1.00	0.00	C

ATOM	8286	CG	ARG	868	26.695	35.214	0.093	1.00	0.00	C
ATOM	8287	CD	ARG	868	27.838	34.218	0.278	1.00	0.00	C
ATOM	8288	NE	ARG	868	27.413	32.953	-0.385	1.00	0.00	N
ATOM	8289	HE	ARG	868	27.623	32.803	-1.372	1.00	0.00	H
ATOM	8290	CZ	ARG	868	26.744	31.994	0.320	1.00	0.00	C
ATOM	8291	NH1	ARG	868	26.458	32.189	1.640	1.00	0.00	N
ATOM	8292	1HH1	ARG	868	26.740	33.053	2.103	1.00	0.00	H
ATOM	8293	2HH1	ARG	868	25.958	31.473	2.167	1.00	0.00	H
ATOM	8294	NH2	ARG	868	26.367	30.838	-0.300	1.00	0.00	N
ATOM	8295	1HH2	ARG	868	26.581	30.692	-1.287	1.00	0.00	H
ATOM	8296	2HH2	ARG	868	25.867	30.122	0.227	1.00	0.00	H
ATOM	8297	C	ARG	868	24.029	35.017	-1.321	1.00	0.00	C
ATOM	8298	O	ARG	868	23.576	34.193	-2.114	1.00	0.00	O
ATOM	8299	N	PHE	869	23.590	35.089	-0.051	1.00	0.00	N
ATOM	8300	HN	PHE	869	23.913	35.848	0.549	1.00	0.00	H
ATOM	8301	CA	PHE	869	22.675	34.116	0.474	1.00	0.00	C
ATOM	8302	CB	PHE	869	22.338	34.384	1.951	1.00	0.00	C
ATOM	8303	CG	PHE	869	21.605	33.198	2.466	1.00	0.00	C
ATOM	8304	CD1	PHE	869	20.238	33.110	2.347	1.00	0.00	C
ATOM	8305	CD2	PHE	869	22.293	32.169	3.065	1.00	0.00	C
ATOM	8306	CE1	PHE	869	19.568	32.009	2.823	1.00	0.00	C
ATOM	8307	CE2	PHE	869	21.629	31.065	3.544	1.00	0.00	C
ATOM	8308	CZ	PHE	869	20.263	30.986	3.423	1.00	0.00	C
ATOM	8309	C	PHE	869	21.414	34.180	-0.321	1.00	0.00	C
ATOM	8310	O	PHE	869	20.888	33.149	-0.738	1.00	0.00	O
ATOM	8311	N	GLY	870	20.912	35.402	-0.585	1.00	0.00	N
ATOM	8312	HN	GLY	870	21.417	36.236	-0.286	1.00	0.00	H
ATOM	8313	CA	GLY	870	19.669	35.530	-1.286	1.00	0.00	C
ATOM	8314	C	GLY	870	19.779	34.876	-2.626	1.00	0.00	C
ATOM	8315	O	GLY	870	18.972	34.018	-2.973	1.00	0.00	O
ATOM	8316	N	ALA	871	20.858	35.166	-3.363	1.00	0.00	N
ATOM	8317	HN	ALA	871	21.597	35.728	-2.941	1.00	0.00	H
ATOM	8318	CA	ALA	871	21.026	34.726	-4.716	1.00	0.00	C
ATOM	8319	CB	ALA	871	22.404	35.087	-5.295	1.00	0.00	C
ATOM	8320	C	ALA	871	20.910	33.248	-4.746	1.00	0.00	C
ATOM	8321	O	ALA	871	20.464	32.699	-5.752	1.00	0.00	O
ATOM	8322	N	TYR	872	21.305	32.594	-3.635	1.00	0.00	N
ATOM	8323	HN	TYR	872	21.557	33.155	-2.822	1.00	0.00	H
ATOM	8324	CA	TYR	872	21.397	31.166	-3.511	1.00	0.00	C
ATOM	8325	CB	TYR	872	21.404	30.644	-2.064	1.00	0.00	C
ATOM	8326	CG	TYR	872	21.684	29.187	-2.196	1.00	0.00	C
ATOM	8327	CD1	TYR	872	22.961	28.749	-2.467	1.00	0.00	C
ATOM	8328	CD2	TYR	872	20.678	28.261	-2.056	1.00	0.00	C
ATOM	8329	CE1	TYR	872	23.234	27.406	-2.599	1.00	0.00	C
ATOM	8330	CE2	TYR	872	20.944	26.917	-2.187	1.00	0.00	C
ATOM	8331	CZ	TYR	872	22.221	26.488	-2.460	1.00	0.00	C
ATOM	8332	OH	TYR	872	22.492	25.110	-2.596	1.00	0.00	O
ATOM	8333	HH	TYR	872	21.792	24.475	-2.500	1.00	0.00	H
ATOM	8334	C	TYR	872	20.339	30.430	-4.294	1.00	0.00	C
ATOM	8335	O	TYR	872	19.161	30.773	-4.263	1.00	0.00	O
ATOM	8336	N	LEU	873	20.791	29.363	-4.991	1.00	0.00	N
ATOM	8337	HN	LEU	873	21.796	29.209	-4.909	1.00	0.00	H
ATOM	8338	CA	LEU	873	20.111	28.396	-5.834	1.00	0.00	C
ATOM	8339	CB	LEU	873	19.168	27.485	-5.011	1.00	0.00	C
ATOM	8340	CG	LEU	873	18.718	26.143	-5.651	1.00	0.00	C
ATOM	8341	CD1	LEU	873	17.749	25.410	-4.710	1.00	0.00	C
ATOM	8342	CD2	LEU	873	18.153	26.257	-7.076	1.00	0.00	C
ATOM	8343	C	LEU	873	19.346	28.933	-7.026	1.00	0.00	C
ATOM	8344	O	LEU	873	18.119	28.996	-7.020	1.00	0.00	O
ATOM	8345	N	VAL	874	20.080	29.405	-8.053	1.00	0.00	N
ATOM	8346	HN	VAL	874	21.083	29.486	-7.884	1.00	0.00	H
ATOM	8347	CA	VAL	874	19.626	29.811	-9.362	1.00	0.00	C
ATOM	8348	CB	VAL	874	20.418	30.929	-9.955	1.00	0.00	C
ATOM	8349	CG1	VAL	874	20.362	32.127	-8.991	1.00	0.00	C
ATOM	8350	CG2	VAL	874	21.817	30.409	-10.282	1.00	0.00	C
ATOM	8351	C	VAL	874	19.603	28.674	-10.366	1.00	0.00	C
ATOM	8352	O	VAL	874	19.528	28.940	-11.566	1.00	0.00	O
ATOM	8353	N	ALA	875	19.852	27.409	-9.959	1.00	0.00	N
ATOM	8354	HN	ALA	875	19.973	27.209	-8.966	1.00	0.00	H
ATOM	8355	CA	ALA	875	19.947	26.338	-10.929	1.00	0.00	C
ATOM	8356	CB	ALA	875	20.424	25.007	-10.322	1.00	0.00	C
ATOM	8357	C	ALA	875	18.634	26.060	-11.629	1.00	0.00	C
ATOM	8358	O	ALA	875	17.717	25.459	-11.079	1.00	0.00	O
ATOM	8359	N	HIS	876	18.580	26.414	-12.928	1.00	0.00	N

ATOM	8360	HN	HIS	876	19.425	26.847	-13.301	1.00	0.00	H
ATOM	8361	CA	HIS	876	17.492	26.265	-13.866	1.00	0.00	C
ATOM	8362	ND1	HIS	876	14.768	24.040	-13.803	1.00	0.00	N
ATOM	8363	HD1	HIS	876	14.351	24.458	-14.635	1.00	0.00	H
ATOM	8364	CG	HIS	876	16.094	24.104	-13.429	1.00	0.00	C
ATOM	8365	CB	HIS	876	17.150	24.799	-14.238	1.00	0.00	C
ATOM	8366	NE2	HIS	876	14.942	22.909	-11.899	1.00	0.00	N
ATOM	8367	HE2	HIS	876	14.710	22.352	-11.076	1.00	0.00	H
ATOM	8368	CD2	HIS	876	16.180	23.406	-12.262	1.00	0.00	C
ATOM	8369	CE1	HIS	876	14.125	23.316	-12.856	1.00	0.00	C
ATOM	8370	C	HIS	876	16.247	27.020	-13.476	1.00	0.00	C
ATOM	8371	O	HIS	876	15.148	26.673	-13.905	1.00	0.00	O
ATOM	8372	N	LYS	877	16.401	28.131	-12.727	1.00	0.00	N
ATOM	8373	HN	LYS	877	17.344	28.374	-12.423	1.00	0.00	H
ATOM	8374	CA	LYS	877	15.318	29.000	-12.327	1.00	0.00	C
ATOM	8375	CB	LYS	877	14.218	29.195	-13.377	1.00	0.00	C
ATOM	8376	CG	LYS	877	13.116	30.120	-12.861	1.00	0.00	C
ATOM	8377	CD	LYS	877	11.994	30.354	-13.863	1.00	0.00	C
ATOM	8378	CE	LYS	877	10.986	29.201	-13.883	1.00	0.00	C
ATOM	8379	NZ	LYS	877	10.910	28.618	-15.240	1.00	0.00	N
ATOM	8380	HZ1	LYS	877	10.239	27.850	-15.253	1.00	0.00	H
ATOM	8381	HZ2	LYS	877	11.826	28.331	-15.584	1.00	0.00	H
ATOM	8382	HZ3	LYS	877	10.699	29.322	-15.947	1.00	0.00	H
ATOM	8383	C	LYS	877	14.601	28.457	-11.127	1.00	0.00	C
ATOM	8384	O	LYS	877	13.727	27.599	-11.247	1.00	0.00	O
ATOM	8385	N	LEU	878	14.905	29.027	-9.944	1.00	0.00	N
ATOM	8386	HN	LEU	878	15.573	29.797	-9.947	1.00	0.00	H
ATOM	8387	CA	LEU	878	14.355	28.627	-8.680	1.00	0.00	C
ATOM	8388	CB	LEU	878	15.458	27.939	-7.826	1.00	0.00	C
ATOM	8389	CG	LEU	878	15.133	27.415	-6.406	1.00	0.00	C
ATOM	8390	CD1	LEU	878	15.347	28.470	-5.303	1.00	0.00	C
ATOM	8391	CD2	LEU	878	13.734	26.779	-6.369	1.00	0.00	C
ATOM	8392	C	LEU	878	13.799	29.867	-8.024	1.00	0.00	C
ATOM	8393	O	LEU	878	13.839	30.955	-8.593	1.00	0.00	O
ATOM	8394	N	MET	879	13.335	29.741	-6.768	1.00	0.00	N
ATOM	8395	HN	MET	879	13.473	28.837	-6.317	1.00	0.00	H
ATOM	8396	CA	MET	879	12.666	30.749	-5.999	1.00	0.00	C
ATOM	8397	CB	MET	879	12.254	30.258	-4.594	1.00	0.00	C
ATOM	8398	CG	MET	879	13.390	30.106	-3.582	1.00	0.00	C
ATOM	8399	SD	MET	879	13.912	31.667	-2.817	1.00	0.00	S
ATOM	8400	CE	MET	879	12.370	31.819	-1.870	1.00	0.00	C
ATOM	8401	C	MET	879	13.563	31.946	-5.894	1.00	0.00	C
ATOM	8402	O	MET	879	13.123	33.013	-5.470	1.00	0.00	O
ATOM	8403	N	SER	880	14.869	31.782	-6.178	1.00	0.00	N
ATOM	8404	HN	SER	880	15.223	30.853	-6.407	1.00	0.00	H
ATOM	8405	CA	SER	880	15.771	32.906	-6.161	1.00	0.00	C
ATOM	8406	CB	SER	880	17.244	32.494	-6.029	1.00	0.00	C
ATOM	8407	OG	SER	880	17.622	31.726	-7.162	1.00	0.00	O
ATOM	8408	HG	SER	880	18.533	31.471	-7.080	1.00	0.00	H
ATOM	8409	C	SER	880	15.672	33.692	-7.443	1.00	0.00	C
ATOM	8410	O	SER	880	15.940	33.168	-8.524	1.00	0.00	O
ATOM	8411	N	PHE	881	15.318	35.000	-7.334	1.00	0.00	N
ATOM	8412	HN	PHE	881	15.137	35.381	-6.405	1.00	0.00	H
ATOM	8413	CA	PHE	881	15.187	35.872	-8.473	1.00	0.00	C
ATOM	8414	CB	PHE	881	13.938	35.568	-9.331	1.00	0.00	C
ATOM	8415	CG	PHE	881	12.674	35.827	-8.578	1.00	0.00	C
ATOM	8416	CD1	PHE	881	12.330	35.065	-7.487	1.00	0.00	C
ATOM	8417	CD2	PHE	881	11.831	36.850	-8.947	1.00	0.00	C
ATOM	8418	CE1	PHE	881	11.166	35.310	-6.796	1.00	0.00	C
ATOM	8419	CE2	PHE	881	10.667	37.104	-8.265	1.00	0.00	C
ATOM	8420	CZ	PHE	881	10.330	36.329	-7.184	1.00	0.00	C
ATOM	8421	C	PHE	881	15.157	37.309	-7.992	1.00	0.00	C
ATOM	8422	O	PHE	881	15.876	37.691	-7.070	1.00	0.00	O
ATOM	8423	N	GLU	882	14.301	38.139	-8.619	1.00	0.00	N
ATOM	8424	HN	GLU	882	13.680	37.714	-9.307	1.00	0.00	H
ATOM	8425	CA	GLU	882	14.165	39.563	-8.426	1.00	0.00	C
ATOM	8426	CB	GLU	882	13.045	40.152	-9.309	1.00	0.00	C
ATOM	8427	CG	GLU	882	13.053	41.681	-9.416	1.00	0.00	C
ATOM	8428	CD	GLU	882	12.511	42.313	-8.136	1.00	0.00	C
ATOM	8429	OE1	GLU	882	11.720	41.644	-7.419	1.00	0.00	O
ATOM	8430	OE2	GLU	882	12.894	43.478	-7.853	1.00	0.00	O
ATOM	8431	C	GLU	882	13.847	39.964	-7.004	1.00	0.00	C
ATOM	8432	O	GLU	882	14.346	40.988	-6.542	1.00	0.00	O
ATOM	8433	N	ASP	883	13.072	39.165	-6.250	1.00	0.00	N

ATOM	8434	HN	ASP	883	12.843	38.243	-6.622	1.00	0.00	H
ATOM	8435	CA	ASP	883	12.539	39.513	-4.952	1.00	0.00	C
ATOM	8436	CB	ASP	883	11.888	38.308	-4.249	1.00	0.00	C
ATOM	8437	CG	ASP	883	12.927	37.204	-4.097	1.00	0.00	C
ATOM	8438	OD1	ASP	883	13.607	36.877	-5.106	1.00	0.00	O
ATOM	8439	OD2	ASP	883	13.041	36.654	-2.969	1.00	0.00	O
ATOM	8440	C	ASP	883	13.602	40.086	-4.058	1.00	0.00	C
ATOM	8441	O	ASP	883	13.294	40.850	-3.143	1.00	0.00	O
ATOM	8442	N	VAL	884	14.880	39.770	-4.315	1.00	0.00	N
ATOM	8443	HN	VAL	884	15.084	39.138	-5.089	1.00	0.00	H
ATOM	8444	CA	VAL	884	15.971	40.289	-3.540	1.00	0.00	C
ATOM	8445	CB	VAL	884	17.301	39.966	-4.154	1.00	0.00	C
ATOM	8446	CG1	VAL	884	17.480	38.439	-4.124	1.00	0.00	C
ATOM	8447	CG2	VAL	884	17.357	40.560	-5.573	1.00	0.00	C
ATOM	8448	C	VAL	884	15.843	41.790	-3.455	1.00	0.00	C
ATOM	8449	O	VAL	884	16.334	42.405	-2.509	1.00	0.00	O
ATOM	8450	N	LEU	885	15.200	42.435	-4.445	1.00	0.00	N
ATOM	8451	HN	LEU	885	14.834	41.908	-5.238	1.00	0.00	H
ATOM	8452	CA	LEU	885	15.024	43.864	-4.395	1.00	0.00	C
ATOM	8453	CB	LEU	885	14.323	44.431	-5.640	1.00	0.00	C
ATOM	8454	CG	LEU	885	15.246	44.525	-6.868	1.00	0.00	C
ATOM	8455	CD1	LEU	885	16.300	45.626	-6.674	1.00	0.00	C
ATOM	8456	CD2	LEU	885	15.879	43.167	-7.208	1.00	0.00	C
ATOM	8457	C	LEU	885	14.212	44.252	-3.192	1.00	0.00	C
ATOM	8458	O	LEU	885	14.454	45.297	-2.588	1.00	0.00	O
ATOM	8459	N	LEU	886	13.194	43.451	-2.833	1.00	0.00	N
ATOM	8460	HN	LEU	886	12.967	42.637	-3.404	1.00	0.00	H
ATOM	8461	CA	LEU	886	12.423	43.730	-1.655	1.00	0.00	C
ATOM	8462	CB	LEU	886	11.158	42.864	-1.554	1.00	0.00	C
ATOM	8463	CG	LEU	886	10.099	43.247	-2.605	1.00	0.00	C
ATOM	8464	CD1	LEU	886	10.639	43.076	-4.034	1.00	0.00	C
ATOM	8465	CD2	LEU	886	8.777	42.495	-2.374	1.00	0.00	C
ATOM	8466	C	LEU	886	13.317	43.518	-0.473	1.00	0.00	C
ATOM	8467	O	LEU	886	13.137	44.112	0.588	1.00	0.00	O
ATOM	8468	N	VAL	887	14.312	42.629	-0.605	1.00	0.00	N
ATOM	8469	HN	VAL	887	14.425	42.094	-1.466	1.00	0.00	H
ATOM	8470	CA	VAL	887	15.214	42.450	0.497	1.00	0.00	C
ATOM	8471	CB	VAL	887	16.293	41.450	0.205	1.00	0.00	C
ATOM	8472	CG1	VAL	887	17.283	41.443	1.382	1.00	0.00	C
ATOM	8473	CG2	VAL	887	15.630	40.088	-0.059	1.00	0.00	C
ATOM	8474	C	VAL	887	15.869	43.774	0.770	1.00	0.00	C
ATOM	8475	O	VAL	887	16.012	44.188	1.922	1.00	0.00	O
ATOM	8476	N	PHE	888	16.243	44.506	-0.295	1.00	0.00	N
ATOM	8477	HN	PHE	888	16.079	44.155	-1.239	1.00	0.00	H
ATOM	8478	CA	PHE	888	16.872	45.781	-0.103	1.00	0.00	C
ATOM	8479	CB	PHE	888	17.208	46.522	-1.410	1.00	0.00	C
ATOM	8480	CG	PHE	888	17.767	47.849	-1.014	1.00	0.00	C
ATOM	8481	CD1	PHE	888	19.114	48.008	-0.782	1.00	0.00	C
ATOM	8482	CD2	PHE	888	16.934	48.934	-0.861	1.00	0.00	C
ATOM	8483	CE1	PHE	888	19.625	49.231	-0.413	1.00	0.00	C
ATOM	8484	CE2	PHE	888	17.438	50.159	-0.492	1.00	0.00	C
ATOM	8485	CZ	PHE	888	18.787	50.310	-0.268	1.00	0.00	C
ATOM	8486	C	PHE	888	15.906	46.623	0.659	1.00	0.00	C
ATOM	8487	O	PHE	888	16.289	47.457	1.478	1.00	0.00	O
ATOM	8488	N	SER	889	14.606	46.423	0.403	1.00	0.00	N
ATOM	8489	HN	SER	889	14.318	45.695	-0.251	1.00	0.00	H
ATOM	8490	CA	SER	889	13.626	47.234	1.049	1.00	0.00	C
ATOM	8491	CB	SER	889	12.198	46.825	0.663	1.00	0.00	C
ATOM	8492	OG	SER	889	11.632	45.928	1.597	1.00	0.00	O
ATOM	8493	HG	SER	889	10.748	45.675	1.358	1.00	0.00	H
ATOM	8494	C	SER	889	13.748	47.117	2.552	1.00	0.00	C
ATOM	8495	O	SER	889	13.693	48.116	3.266	1.00	0.00	O
ATOM	8496	N	ALA	890	13.884	45.889	3.087	1.00	0.00	N
ATOM	8497	HN	ALA	890	13.922	45.085	2.460	1.00	0.00	H
ATOM	8498	CA	ALA	890	13.979	45.661	4.510	1.00	0.00	C
ATOM	8499	CB	ALA	890	13.825	44.174	4.866	1.00	0.00	C
ATOM	8500	C	ALA	890	15.265	46.182	5.097	1.00	0.00	C
ATOM	8501	O	ALA	890	15.290	46.653	6.236	1.00	0.00	O
ATOM	8502	N	VAL	891	16.391	46.053	4.370	1.00	0.00	N
ATOM	8503	HN	VAL	891	16.362	45.623	3.446	1.00	0.00	H
ATOM	8504	CA	VAL	891	17.635	46.529	4.912	1.00	0.00	C
ATOM	8505	CB	VAL	891	18.839	46.169	4.080	1.00	0.00	C
ATOM	8506	CG1	VAL	891	19.015	44.641	4.100	1.00	0.00	C
ATOM	8507	CG2	VAL	891	18.662	46.741	2.664	1.00	0.00	C

ATOM	8508	C	VAL	891	17.556	48.020	5.022	1.00	0.00	C
ATOM	8509	O	VAL	891	17.896	48.602	6.054	1.00	0.00	O
ATOM	8510	N	VAL	892	17.056	48.671	3.955	1.00	0.00	N
ATOM	8511	HN	VAL	892	16.759	48.135	3.140	1.00	0.00	H
ATOM	8512	CA	VAL	892	16.931	50.093	3.935	1.00	0.00	C
ATOM	8513	CB	VAL	892	16.517	50.662	2.598	1.00	0.00	C
ATOM	8514	CG1	VAL	892	15.088	50.232	2.247	1.00	0.00	C
ATOM	8515	CG2	VAL	892	16.706	52.186	2.647	1.00	0.00	C
ATOM	8516	C	VAL	892	15.945	50.466	4.995	1.00	0.00	C
ATOM	8517	O	VAL	892	15.932	51.595	5.486	1.00	0.00	O
ATOM	8518	N	PHE	893	15.049	49.533	5.360	1.00	0.00	N
ATOM	8519	HN	PHE	893	15.034	48.609	4.929	1.00	0.00	H
ATOM	8520	CA	PHE	893	14.116	49.898	6.383	1.00	0.00	C
ATOM	8521	CB	PHE	893	13.047	48.843	6.713	1.00	0.00	C
ATOM	8522	CG	PHE	893	12.180	48.686	5.515	1.00	0.00	C
ATOM	8523	CD1	PHE	893	11.754	49.787	4.810	1.00	0.00	C
ATOM	8524	CD2	PHE	893	11.736	47.444	5.137	1.00	0.00	C
ATOM	8525	CE1	PHE	893	10.946	49.642	3.709	1.00	0.00	C
ATOM	8526	CE2	PHE	893	10.926	47.290	4.039	1.00	0.00	C
ATOM	8527	CZ	PHE	893	10.534	48.390	3.318	1.00	0.00	C
ATOM	8528	C	PHE	893	14.840	50.205	7.660	1.00	0.00	C
ATOM	8529	O	PHE	893	14.637	51.266	8.252	1.00	0.00	O
ATOM	8530	N	GLY	894	15.761	49.317	8.084	1.00	0.00	N
ATOM	8531	HN	GLY	894	15.991	48.512	7.501	1.00	0.00	H
ATOM	8532	CA	GLY	894	16.424	49.490	9.349	1.00	0.00	C
ATOM	8533	C	GLY	894	17.096	50.824	9.333	1.00	0.00	C
ATOM	8534	O	GLY	894	17.074	51.577	10.309	1.00	0.00	O
ATOM	8535	N	ALA	895	17.674	51.171	8.177	1.00	0.00	N
ATOM	8536	HN	ALA	895	17.630	50.538	7.378	1.00	0.00	H
ATOM	8537	CA	ALA	895	18.351	52.420	8.055	1.00	0.00	C
ATOM	8538	CB	ALA	895	18.949	52.639	6.655	1.00	0.00	C
ATOM	8539	C	ALA	895	17.378	53.538	8.304	1.00	0.00	C
ATOM	8540	O	ALA	895	17.731	54.545	8.915	1.00	0.00	O
ATOM	8541	N	MET	896	16.117	53.394	7.851	1.00	0.00	N
ATOM	8542	HN	MET	896	15.826	52.509	7.437	1.00	0.00	H
ATOM	8543	CA	MET	896	15.177	54.482	7.948	1.00	0.00	C
ATOM	8544	CB	MET	896	13.791	54.152	7.353	1.00	0.00	C
ATOM	8545	CG	MET	896	12.873	53.359	8.288	1.00	0.00	C
ATOM	8546	SD	MET	896	11.411	52.618	7.502	1.00	0.00	S
ATOM	8547	CE	MET	896	10.420	54.139	7.461	1.00	0.00	C
ATOM	8548	C	MET	896	14.968	54.883	9.387	1.00	0.00	C
ATOM	8549	O	MET	896	14.993	56.068	9.724	1.00	0.00	O
ATOM	8550	N	ALA	897	14.788	53.898	10.283	1.00	0.00	N
ATOM	8551	HN	ALA	897	14.836	52.932	9.959	1.00	0.00	H
ATOM	8552	CA	ALA	897	14.531	54.142	11.676	1.00	0.00	C
ATOM	8553	CB	ALA	897	14.291	52.845	12.467	1.00	0.00	C
ATOM	8554	C	ALA	897	15.714	54.828	12.272	1.00	0.00	C
ATOM	8555	O	ALA	897	15.583	55.654	13.176	1.00	0.00	O
ATOM	8556	N	VAL	898	16.912	54.492	11.768	1.00	0.00	N
ATOM	8557	HN	VAL	898	16.967	53.838	10.987	1.00	0.00	H
ATOM	8558	CA	VAL	898	18.113	55.045	12.319	1.00	0.00	C
ATOM	8559	CB	VAL	898	19.342	54.665	11.544	1.00	0.00	C
ATOM	8560	CG1	VAL	898	20.546	55.403	12.152	1.00	0.00	C
ATOM	8561	CG2	VAL	898	19.483	53.133	11.542	1.00	0.00	C
ATOM	8562	C	VAL	898	17.997	56.533	12.247	1.00	0.00	C
ATOM	8563	O	VAL	898	18.355	57.250	13.182	1.00	0.00	O
ATOM	8564	N	GLY	899	17.422	57.030	11.142	1.00	0.00	N
ATOM	8565	HN	GLY	899	17.051	56.398	10.432	1.00	0.00	H
ATOM	8566	CA	GLY	899	17.328	58.445	10.958	1.00	0.00	C
ATOM	8567	C	GLY	899	16.572	59.045	12.112	1.00	0.00	C
ATOM	8568	O	GLY	899	16.915	60.126	12.589	1.00	0.00	O
ATOM	8569	N	GLN	900	15.523	58.356	12.598	1.00	0.00	N
ATOM	8570	HN	GLN	900	15.352	57.409	12.258	1.00	0.00	H
ATOM	8571	CA	GLN	900	14.632	58.917	13.586	1.00	0.00	C
ATOM	8572	CB	GLN	900	13.491	57.948	13.941	1.00	0.00	C
ATOM	8573	CG	GLN	900	12.718	57.423	12.731	1.00	0.00	C
ATOM	8574	CD	GLN	900	11.971	58.576	12.086	1.00	0.00	C
ATOM	8575	OE1	GLN	900	11.590	58.498	10.920	1.00	0.00	O
ATOM	8576	NE2	GLN	900	11.752	59.672	12.859	1.00	0.00	N
ATOM	8577	1HE2	GLN	900	11.250	60.447	12.426	1.00	0.00	H
ATOM	8578	2HE2	GLN	900	12.068	59.737	13.827	1.00	0.00	H
ATOM	8579	C	GLN	900	15.303	59.225	14.900	1.00	0.00	C
ATOM	8580	O	GLN	900	15.197	60.338	15.419	1.00	0.00	O
ATOM	8581	N	VAL	901	16.035	58.253	15.474	1.00	0.00	N

ATOM	8582	HN	VAL	901	16.186	57.368	14.990	1.00	0.00	H
ATOM	8583	CA	VAL	901	16.604	58.476	16.780	1.00	0.00	C
ATOM	8584	CB	VAL	901	17.379	57.298	17.277	1.00	0.00	C
ATOM	8585	CG1	VAL	901	18.218	57.767	18.466	1.00	0.00	C
ATOM	8586	CG2	VAL	901	16.393	56.180	17.652	1.00	0.00	C
ATOM	8587	C	VAL	901	17.547	59.615	16.692	1.00	0.00	C
ATOM	8588	O	VAL	901	17.591	60.490	17.560	1.00	0.00	O
ATOM	8589	N	SER	902	18.330	59.604	15.609	1.00	0.00	N
ATOM	8590	HN	SER	902	18.195	58.865	14.919	1.00	0.00	H
ATOM	8591	CA	SER	902	19.344	60.577	15.375	1.00	0.00	C
ATOM	8592	CB	SER	902	20.337	60.124	14.292	1.00	0.00	C
ATOM	8593	OG	SER	902	21.001	58.940	14.709	1.00	0.00	O
ATOM	8594	HG	SER	902	21.615	58.660	14.040	1.00	0.00	H
ATOM	8595	C	SER	902	18.739	61.880	14.917	1.00	0.00	C
ATOM	8596	O	SER	902	19.485	62.799	14.586	1.00	0.00	O
ATOM	8597	N	SER	903	17.395	62.020	14.848	1.00	0.00	N
ATOM	8598	HN	SER	903	16.766	61.286	15.173	1.00	0.00	H
ATOM	8599	CA	SER	903	16.891	63.256	14.293	1.00	0.00	C
ATOM	8600	CB	SER	903	16.425	63.095	12.836	1.00	0.00	C
ATOM	8601	OG	SER	903	15.347	62.174	12.772	1.00	0.00	O
ATOM	8602	HG	SER	903	15.059	62.075	11.872	1.00	0.00	H
ATOM	8603	C	SER	903	15.726	63.792	15.081	1.00	0.00	C
ATOM	8604	O	SER	903	15.338	63.229	16.104	1.00	0.00	O
ATOM	8605	N	PHE	904	15.191	64.961	14.632	1.00	0.00	N
ATOM	8606	HN	PHE	904	15.624	65.412	13.826	1.00	0.00	H
ATOM	8607	CA	PHE	904	14.042	65.597	15.236	1.00	0.00	C
ATOM	8608	CB	PHE	904	12.840	64.672	15.541	1.00	0.00	C
ATOM	8609	CG	PHE	904	11.843	64.763	14.432	1.00	0.00	C
ATOM	8610	CD1	PHE	904	10.977	65.833	14.418	1.00	0.00	C
ATOM	8611	CD2	PHE	904	11.734	63.817	13.437	1.00	0.00	C
ATOM	8612	CE1	PHE	904	10.030	65.976	13.433	1.00	0.00	C
ATOM	8613	CE2	PHE	904	10.784	63.956	12.447	1.00	0.00	C
ATOM	8614	CZ	PHE	904	9.932	65.035	12.440	1.00	0.00	C
ATOM	8615	C	PHE	904	14.402	66.327	16.497	1.00	0.00	C
ATOM	8616	O	PHE	904	15.541	66.733	16.721	1.00	0.00	O
ATOM	8617	N	ALA	905	13.373	66.477	17.357	1.00	0.00	N
ATOM	8618	HN	ALA	905	12.501	66.027	17.080	1.00	0.00	H
ATOM	8619	CA	ALA	905	13.334	67.183	18.611	1.00	0.00	C
ATOM	8620	CB	ALA	905	12.027	66.841	19.361	1.00	0.00	C
ATOM	8621	C	ALA	905	14.518	66.766	19.429	1.00	0.00	C
ATOM	8622	O	ALA	905	15.176	65.780	19.093	1.00	0.00	O
ATOM	8623	N	PRO	906	14.844	67.550	20.450	1.00	0.00	N
ATOM	8624	CA	PRO	906	15.959	67.248	21.305	1.00	0.00	C
ATOM	8625	CD	PRO	906	13.879	68.413	21.120	1.00	0.00	C
ATOM	8626	CB	PRO	906	15.866	68.234	22.467	1.00	0.00	C
ATOM	8627	CG	PRO	906	14.361	68.522	22.572	1.00	0.00	C
ATOM	8628	C	PRO	906	15.718	65.841	21.747	1.00	0.00	C
ATOM	8629	O	PRO	906	14.549	65.487	21.861	1.00	0.00	O
ATOM	8630	N	ASP	907	16.773	65.050	22.082	1.00	0.00	N
ATOM	8631	HN	ASP	907	17.685	65.506	22.084	1.00	0.00	H
ATOM	8632	CA	ASP	907	16.772	63.637	22.438	1.00	0.00	C
ATOM	8633	CB	ASP	907	18.177	63.093	22.737	1.00	0.00	C
ATOM	8634	CG	ASP	907	18.111	61.573	22.636	1.00	0.00	C
ATOM	8635	OD1	ASP	907	17.000	61.042	22.367	1.00	0.00	O
ATOM	8636	OD2	ASP	907	19.173	60.921	22.822	1.00	0.00	O
ATOM	8637	C	ASP	907	15.918	63.456	23.679	1.00	0.00	C
ATOM	8638	O	ASP	907	15.942	62.436	24.359	1.00	0.00	O
ATOM	8639	N	TYR	908	15.329	64.554	24.143	1.00	0.00	N
ATOM	8640	HN	TYR	908	15.499	65.408	23.612	1.00	0.00	H
ATOM	8641	CA	TYR	908	14.496	64.690	25.279	1.00	0.00	C
ATOM	8642	CB	TYR	908	14.111	63.444	26.115	1.00	0.00	C
ATOM	8643	CG	TYR	908	12.827	62.863	25.628	1.00	0.00	C
ATOM	8644	CD1	TYR	908	11.674	63.591	25.808	1.00	0.00	C
ATOM	8645	CD2	TYR	908	12.739	61.614	25.054	1.00	0.00	C
ATOM	8646	CE1	TYR	908	10.459	63.104	25.394	1.00	0.00	C
ATOM	8647	CE2	TYR	908	11.523	61.120	24.637	1.00	0.00	C
ATOM	8648	CZ	TYR	908	10.381	61.866	24.803	1.00	0.00	C
ATOM	8649	OH	TYR	908	9.132	61.364	24.378	1.00	0.00	O
ATOM	8650	HH	TYR	908	9.078	60.508	23.969	1.00	0.00	H
ATOM	8651	C	TYR	908	15.467	65.457	26.066	1.00	0.00	C
ATOM	8652	O	TYR	908	15.972	66.481	25.610	1.00	0.00	O
ATOM	8653	N	ALA	909	15.749	64.970	27.280	1.00	0.00	N
ATOM	8654	HN	ALA	909	15.186	64.235	27.707	1.00	0.00	H
ATOM	8655	CA	ALA	909	16.879	65.533	27.946	1.00	0.00	C

ATOM	8656	CB	ALA	909	18.133	65.594	27.059	1.00	0.00	C
ATOM	8657	C	ALA	909	16.531	66.900	28.386	1.00	0.00	C
ATOM	8658	O	ALA	909	15.593	67.120	29.136	1.00	0.00	O
ATOM	8659	N	LYS	910	17.280	67.863	27.852	1.00	0.00	N
ATOM	8660	HN	LYS	910	17.965	67.573	27.154	1.00	0.00	H
ATOM	8661	CA	LYS	910	17.226	69.262	28.153	1.00	0.00	C
ATOM	8662	CB	LYS	910	17.874	69.973	26.971	1.00	0.00	C
ATOM	8663	CG	LYS	910	19.083	69.168	26.495	1.00	0.00	C
ATOM	8664	CD	LYS	910	19.350	69.269	24.995	1.00	0.00	C
ATOM	8665	CE	LYS	910	18.374	68.440	24.151	1.00	0.00	C
ATOM	8666	NZ	LYS	910	18.406	67.016	24.546	1.00	0.00	N
ATOM	8667	HZ1	LYS	910	17.757	66.465	23.985	1.00	0.00	H
ATOM	8668	HZ2	LYS	910	18.232	66.899	25.544	1.00	0.00	H
ATOM	8669	HZ3	LYS	910	19.352	66.637	24.507	1.00	0.00	H
ATOM	8670	C	LYS	910	15.779	69.640	28.101	1.00	0.00	C
ATOM	8671	O	LYS	910	15.332	70.495	28.864	1.00	0.00	O
ATOM	8672	N	ALA	911	15.010	69.030	27.177	1.00	0.00	N
ATOM	8673	HN	ALA	911	15.402	68.328	26.549	1.00	0.00	H
ATOM	8674	CA	ALA	911	13.623	69.397	27.102	1.00	0.00	C
ATOM	8675	CB	ALA	911	12.886	68.711	25.938	1.00	0.00	C
ATOM	8676	C	ALA	911	12.917	69.019	28.379	1.00	0.00	C
ATOM	8677	O	ALA	911	12.198	69.817	28.977	1.00	0.00	O
ATOM	8678	N	LYS	912	13.132	67.787	28.862	1.00	0.00	N
ATOM	8679	HN	LYS	912	13.752	67.156	28.354	1.00	0.00	H
ATOM	8680	CA	LYS	912	12.514	67.332	30.073	1.00	0.00	C
ATOM	8681	CB	LYS	912	12.878	65.875	30.409	1.00	0.00	C
ATOM	8682	CG	LYS	912	12.065	65.317	31.577	1.00	0.00	C
ATOM	8683	CD	LYS	912	12.150	63.797	31.720	1.00	0.00	C
ATOM	8684	CE	LYS	912	13.294	63.325	32.620	1.00	0.00	C
ATOM	8685	NZ	LYS	912	13.296	61.847	32.704	1.00	0.00	N
ATOM	8686	HZ1	LYS	912	14.059	61.532	33.304	1.00	0.00	H
ATOM	8687	HZ2	LYS	912	13.331	61.412	31.782	1.00	0.00	H
ATOM	8688	HZ3	LYS	912	12.394	61.480	33.008	1.00	0.00	H
ATOM	8689	C	LYS	912	12.938	68.195	31.235	1.00	0.00	C
ATOM	8690	O	LYS	912	12.105	68.593	32.051	1.00	0.00	O
ATOM	8691	N	ILE	913	14.236	68.541	31.344	1.00	0.00	N
ATOM	8692	HN	ILE	913	14.913	68.259	30.635	1.00	0.00	H
ATOM	8693	CA	ILE	913	14.644	69.321	32.490	1.00	0.00	C
ATOM	8694	CB	ILE	913	16.116	69.610	32.537	1.00	0.00	C
ATOM	8695	CG1	ILE	913	16.565	70.469	31.346	1.00	0.00	C
ATOM	8696	CG2	ILE	913	16.845	68.262	32.641	1.00	0.00	C
ATOM	8697	CD1	ILE	913	17.956	71.071	31.541	1.00	0.00	C
ATOM	8698	C	ILE	913	13.914	70.616	32.451	1.00	0.00	C
ATOM	8699	O	ILE	913	13.380	71.090	33.456	1.00	0.00	O
ATOM	8700	N	SER	914	13.844	71.218	31.260	1.00	0.00	N
ATOM	8701	HN	SER	914	14.246	70.793	30.424	1.00	0.00	H
ATOM	8702	CA	SER	914	13.182	72.482	31.209	1.00	0.00	C
ATOM	8703	CB	SER	914	13.269	73.134	29.817	1.00	0.00	C
ATOM	8704	OG	SER	914	14.623	73.413	29.487	1.00	0.00	O
ATOM	8705	HG	SER	914	14.677	73.815	28.628	1.00	0.00	H
ATOM	8706	C	SER	914	11.732	72.258	31.552	1.00	0.00	C
ATOM	8707	O	SER	914	11.096	73.115	32.166	1.00	0.00	O
ATOM	8708	N	ALA	915	11.161	71.090	31.180	1.00	0.00	N
ATOM	8709	HN	ALA	915	11.711	70.372	30.709	1.00	0.00	H
ATOM	8710	CA	ALA	915	9.764	70.874	31.459	1.00	0.00	C
ATOM	8711	CB	ALA	915	9.247	69.526	30.922	1.00	0.00	C
ATOM	8712	C	ALA	915	9.511	70.885	32.947	1.00	0.00	C
ATOM	8713	O	ALA	915	8.609	71.572	33.438	1.00	0.00	O
ATOM	8714	N	ALA	916	10.354	70.169	33.717	1.00	0.00	N
ATOM	8715	HN	ALA	916	11.162	69.713	33.293	1.00	0.00	H
ATOM	8716	CA	ALA	916	10.126	70.042	35.129	1.00	0.00	C
ATOM	8717	CB	ALA	916	11.231	69.235	35.830	1.00	0.00	C
ATOM	8718	C	ALA	916	10.106	71.408	35.732	1.00	0.00	C
ATOM	8719	O	ALA	916	9.219	71.736	36.521	1.00	0.00	O
ATOM	8720	N	HIS	917	11.057	72.267	35.332	1.00	0.00	N
ATOM	8721	HN	HIS	917	11.723	72.007	34.604	1.00	0.00	H
ATOM	8722	CA	HIS	917	11.115	73.558	35.951	1.00	0.00	C
ATOM	8723	ND1	HIS	917	14.556	73.548	35.431	1.00	0.00	N
ATOM	8724	HD1	HIS	917	14.483	72.947	34.610	1.00	0.00	H
ATOM	8725	CG	HIS	917	13.565	74.344	35.956	1.00	0.00	C
ATOM	8726	CB	HIS	917	12.192	74.494	35.376	1.00	0.00	C
ATOM	8727	NE2	HIS	917	15.431	74.563	37.206	1.00	0.00	N
ATOM	8728	HE2	HIS	917	16.085	74.860	37.930	1.00	0.00	H
ATOM	8729	CD2	HIS	917	14.115	74.956	37.039	1.00	0.00	C

ATOM	8730	CE1	HIS	917	15.650	73.717	36.217	1.00	0.00	C
ATOM	8731	C	HIS	917	9.837	74.310	35.753	1.00	0.00	C
ATOM	8732	O	HIS	917	9.200	74.751	36.709	1.00	0.00	O
ATOM	8733	N	ILE	918	9.390	74.424	34.497	1.00	0.00	N
ATOM	8734	HN	ILE	918	9.858	73.915	33.747	1.00	0.00	H
ATOM	8735	CA	ILE	918	8.262	75.252	34.194	1.00	0.00	C
ATOM	8736	CB	ILE	918	7.970	75.267	32.715	1.00	0.00	C
ATOM	8737	CG1	ILE	918	7.010	76.401	32.316	1.00	0.00	C
ATOM	8738	CG2	ILE	918	7.493	73.864	32.315	1.00	0.00	C
ATOM	8739	CD1	ILE	918	5.576	76.233	32.806	1.00	0.00	C
ATOM	8740	C	ILE	918	7.088	74.731	34.955	1.00	0.00	C
ATOM	8741	O	ILE	918	6.211	75.496	35.355	1.00	0.00	O
ATOM	8742	N	ILE	919	7.044	73.402	35.149	1.00	0.00	N
ATOM	8743	HN	ILE	919	7.822	72.836	34.811	1.00	0.00	H
ATOM	8744	CA	ILE	919	5.953	72.741	35.810	1.00	0.00	C
ATOM	8745	CB	ILE	919	6.180	71.255	35.908	1.00	0.00	C
ATOM	8746	CG1	ILE	919	6.255	70.588	34.524	1.00	0.00	C
ATOM	8747	CG2	ILE	919	5.082	70.676	36.814	1.00	0.00	C
ATOM	8748	CD1	ILE	919	4.935	70.608	33.757	1.00	0.00	C
ATOM	8749	C	ILE	919	5.801	73.185	37.232	1.00	0.00	C
ATOM	8750	O	ILE	919	4.703	73.558	37.647	1.00	0.00	O
ATOM	8751	N	MET	920	6.896	73.189	38.018	1.00	0.00	N
ATOM	8752	HN	MET	920	7.816	72.973	37.633	1.00	0.00	H
ATOM	8753	CA	MET	920	6.737	73.505	39.415	1.00	0.00	C
ATOM	8754	CB	MET	920	8.067	73.515	40.197	1.00	0.00	C
ATOM	8755	CG	MET	920	8.671	72.138	40.493	1.00	0.00	C
ATOM	8756	SD	MET	920	7.788	71.186	41.769	1.00	0.00	S
ATOM	8757	CE	MET	920	9.195	70.126	42.212	1.00	0.00	C
ATOM	8758	C	MET	920	6.168	74.892	39.537	1.00	0.00	C
ATOM	8759	O	MET	920	5.261	75.152	40.330	1.00	0.00	O
ATOM	8760	N	ILE	921	6.685	75.820	38.718	1.00	0.00	N
ATOM	8761	HN	ILE	921	7.381	75.537	38.029	1.00	0.00	H
ATOM	8762	CA	ILE	921	6.289	77.204	38.780	1.00	0.00	C
ATOM	8763	CB	ILE	921	7.143	78.080	37.899	1.00	0.00	C
ATOM	8764	CG1	ILE	921	8.580	78.179	38.455	1.00	0.00	C
ATOM	8765	CG2	ILE	921	6.447	79.446	37.766	1.00	0.00	C
ATOM	8766	CD1	ILE	921	9.370	76.871	38.438	1.00	0.00	C
ATOM	8767	C	ILE	921	4.860	77.406	38.408	1.00	0.00	C
ATOM	8768	O	ILE	921	4.162	78.259	38.961	1.00	0.00	O
ATOM	8769	N	ILE	922	4.408	76.661	37.397	1.00	0.00	N
ATOM	8770	HN	ILE	922	5.030	75.991	36.945	1.00	0.00	H
ATOM	8771	CA	ILE	922	3.064	76.794	36.943	1.00	0.00	C
ATOM	8772	CB	ILE	922	2.808	76.109	35.627	1.00	0.00	C
ATOM	8773	CG1	ILE	922	1.460	76.569	35.044	1.00	0.00	C
ATOM	8774	CG2	ILE	922	2.931	74.592	35.826	1.00	0.00	C
ATOM	8775	CD1	ILE	922	1.229	76.150	33.591	1.00	0.00	C
ATOM	8776	C	ILE	922	2.099	76.293	37.963	1.00	0.00	C
ATOM	8777	O	ILE	922	0.969	76.767	38.020	1.00	0.00	O
ATOM	8778	N	GLU	923	2.479	75.283	38.767	1.00	0.00	N
ATOM	8779	HN	GLU	923	3.440	74.941	38.771	1.00	0.00	H
ATOM	8780	CA	GLU	923	1.477	74.707	39.618	1.00	0.00	C
ATOM	8781	CB	GLU	923	2.015	73.496	40.399	1.00	0.00	C
ATOM	8782	CG	GLU	923	2.656	72.426	39.494	1.00	0.00	C
ATOM	8783	CD	GLU	923	1.685	71.901	38.427	1.00	0.00	C
ATOM	8784	OE1	GLU	923	0.811	72.665	37.941	1.00	0.00	O
ATOM	8785	OE2	GLU	923	1.829	70.702	38.067	1.00	0.00	O
ATOM	8786	C	GLU	923	0.888	75.725	40.558	1.00	0.00	C
ATOM	8787	O	GLU	923	-0.292	76.051	40.432	1.00	0.00	O
ATOM	8788	N	LYS	924	1.724	76.318	41.438	1.00	0.00	N
ATOM	8789	HN	LYS	924	2.700	76.022	41.409	1.00	0.00	H
ATOM	8790	CA	LYS	924	1.382	77.332	42.421	1.00	0.00	C
ATOM	8791	CB	LYS	924	1.801	78.746	41.975	1.00	0.00	C
ATOM	8792	CG	LYS	924	1.251	79.132	40.603	1.00	0.00	C
ATOM	8793	CD	LYS	924	-0.262	79.335	40.595	1.00	0.00	C
ATOM	8794	CE	LYS	924	-0.836	79.628	39.209	1.00	0.00	C
ATOM	8795	NZ	LYS	924	-1.151	78.357	38.523	1.00	0.00	N
ATOM	8796	HZ1	LYS	924	-1.534	78.553	37.598	1.00	0.00	H
ATOM	8797	HZ2	LYS	924	-1.768	77.764	39.077	1.00	0.00	H
ATOM	8798	HZ3	LYS	924	-0.346	77.733	38.481	1.00	0.00	H
ATOM	8799	C	LYS	924	-0.066	77.347	42.924	1.00	0.00	C
ATOM	8800	O	LYS	924	-0.776	76.343	42.872	1.00	0.00	O
ATOM	8801	N	THR	925	-0.489	78.474	43.579	1.00	0.00	N
ATOM	8802	HN	THR	925	0.187	79.223	43.729	1.00	0.00	H
ATOM	8803	CA	THR	925	-1.846	78.668	44.075	1.00	0.00	C

ATOM	8804	CB	THR	925	-1.984	78.284	45.523	1.00	0.00	C
ATOM	8805	OG1	THR	925	-3.310	78.518	45.971	1.00	0.00	O
ATOM	8806	HG1	THR	925	-3.397	78.276	46.885	1.00	0.00	H
ATOM	8807	CG2	THR	925	-0.954	79.052	46.374	1.00	0.00	C
ATOM	8808	C	THR	925	-2.280	80.120	43.906	1.00	0.00	C
ATOM	8809	O	THR	925	-1.917	80.984	44.703	1.00	0.00	O
ATOM	8810	N	PRO	926	-3.156	80.402	42.964	1.00	0.00	N
ATOM	8811	CA	PRO	926	-3.559	81.741	42.574	1.00	0.00	C
ATOM	8812	CD	PRO	926	-3.919	79.368	42.284	1.00	0.00	C
ATOM	8813	CB	PRO	926	-4.765	81.559	41.655	1.00	0.00	C
ATOM	8814	CG	PRO	926	-4.645	80.109	41.147	1.00	0.00	C
ATOM	8815	C	PRO	926	-3.854	82.650	43.716	1.00	0.00	C
ATOM	8816	O	PRO	926	-3.410	83.795	43.722	1.00	0.00	O
ATOM	8817	N	LEU	927	-4.666	82.188	44.657	1.00	0.00	N
ATOM	8818	HN	LEU	927	-5.138	81.297	44.504	1.00	0.00	H
ATOM	8819	CA	LEU	927	-4.905	82.889	45.874	1.00	0.00	C
ATOM	8820	CB	LEU	927	-3.626	83.365	46.574	1.00	0.00	C
ATOM	8821	CG	LEU	927	-3.947	83.981	47.946	1.00	0.00	C
ATOM	8822	CD1	LEU	927	-4.476	82.912	48.914	1.00	0.00	C
ATOM	8823	CD2	LEU	927	-2.757	84.755	48.516	1.00	0.00	C
ATOM	8824	C	LEU	927	-5.787	84.105	45.713	1.00	0.00	C
ATOM	8825	O	LEU	927	-6.579	84.358	46.617	1.00	0.00	O
ATOM	8826	N	ILE	928	-5.690	84.903	44.611	1.00	0.00	N
ATOM	8827	HN	ILE	928	-5.012	84.695	43.878	1.00	0.00	H
ATOM	8828	CA	ILE	928	-6.570	86.057	44.499	1.00	0.00	C
ATOM	8829	CB	ILE	928	-6.073	87.276	45.250	1.00	0.00	C
ATOM	8830	CG1	ILE	928	-4.635	87.667	44.844	1.00	0.00	C
ATOM	8831	CG2	ILE	928	-6.273	87.069	46.755	1.00	0.00	C
ATOM	8832	CD1	ILE	928	-3.556	86.673	45.269	1.00	0.00	C
ATOM	8833	C	ILE	928	-6.796	86.522	43.081	1.00	0.00	C
ATOM	8834	O	ILE	928	-6.356	87.618	42.721	1.00	0.00	O
ATOM	8835	N	ASP	929	-7.456	85.722	42.216	1.00	0.00	N
ATOM	8836	HN	ASP	929	-7.735	84.778	42.482	1.00	0.00	H
ATOM	8837	CA	ASP	929	-7.755	86.243	40.905	1.00	0.00	C
ATOM	8838	CB	ASP	929	-8.025	85.134	39.876	1.00	0.00	C
ATOM	8839	CG	ASP	929	-6.689	84.576	39.417	1.00	0.00	C
ATOM	8840	OD1	ASP	929	-5.939	85.328	38.738	1.00	0.00	O
ATOM	8841	OD2	ASP	929	-6.396	83.397	39.747	1.00	0.00	O
ATOM	8842	C	ASP	929	-8.952	87.142	40.887	1.00	0.00	C
ATOM	8843	O	ASP	929	-8.859	88.364	40.774	1.00	0.00	O
ATOM	8844	N	SER	930	-10.133	86.528	41.080	1.00	0.00	N
ATOM	8845	HN	SER	930	-10.158	85.528	41.277	1.00	0.00	H
ATOM	8846	CA	SER	930	-11.353	87.269	41.010	1.00	0.00	C
ATOM	8847	CB	SER	930	-12.109	87.138	39.681	1.00	0.00	C
ATOM	8848	OG	SER	930	-12.757	85.877	39.624	1.00	0.00	O
ATOM	8849	HG	SER	930	-13.225	85.796	38.801	1.00	0.00	H
ATOM	8850	C	SER	930	-12.214	86.653	42.038	1.00	0.00	C
ATOM	8851	O	SER	930	-11.946	85.532	42.459	1.00	0.00	O
ATOM	8852	N	TYR	931	-13.217	87.406	42.517	1.00	0.00	N
ATOM	8853	HN	TYR	931	-13.335	88.356	42.165	1.00	0.00	H
ATOM	8854	CA	TYR	931	-14.123	86.914	43.506	1.00	0.00	C
ATOM	8855	CB	TYR	931	-13.571	86.981	44.947	1.00	0.00	C
ATOM	8856	CG	TYR	931	-12.338	86.155	45.065	1.00	0.00	C
ATOM	8857	CD1	TYR	931	-12.425	84.783	45.062	1.00	0.00	C
ATOM	8858	CD2	TYR	931	-11.097	86.743	45.168	1.00	0.00	C
ATOM	8859	CE1	TYR	931	-11.297	84.006	45.168	1.00	0.00	C
ATOM	8860	CE2	TYR	931	-9.963	85.972	45.275	1.00	0.00	C
ATOM	8861	CZ	TYR	931	-10.064	84.601	45.275	1.00	0.00	C
ATOM	8862	OH	TYR	931	-8.908	83.801	45.385	1.00	0.00	O
ATOM	8863	HH	TYR	931	-8.055	84.213	45.459	1.00	0.00	H
ATOM	8864	C	TYR	931	-15.249	87.897	43.513	1.00	0.00	C
ATOM	8865	O	TYR	931	-15.210	88.886	42.782	1.00	0.00	O
ATOM	8866	N	SER	932	-16.349	87.586	44.227	1.00	0.00	N
ATOM	8867	HN	SER	932	-16.479	86.636	44.575	1.00	0.00	H
ATOM	8868	CA	SER	932	-17.339	88.591	44.499	1.00	0.00	C
ATOM	8869	CB	SER	932	-18.738	87.986	44.704	1.00	0.00	C
ATOM	8870	OG	SER	932	-19.687	89.008	44.968	1.00	0.00	O
ATOM	8871	HG	SER	932	-20.551	88.634	45.095	1.00	0.00	H
ATOM	8872	C	SER	932	-16.953	89.312	45.761	1.00	0.00	C
ATOM	8873	O	SER	932	-16.568	90.481	45.760	1.00	0.00	O
ATOM	8874	N	THR	933	-17.124	88.581	46.891	1.00	0.00	N
ATOM	8875	HN	THR	933	-17.528	87.653	46.766	1.00	0.00	H
ATOM	8876	CA	THR	933	-16.807	88.953	48.241	1.00	0.00	C
ATOM	8877	CB	THR	933	-15.453	88.490	48.707	1.00	0.00	C

ATOM	8878	OG1	THR	933	-14.453	88.805	47.757	1.00	0.00	O
ATOM	8879	HG1	THR	933	-14.418	89.745	47.626	1.00	0.00	H
ATOM	8880	CG2	THR	933	-15.510	86.968	48.919	1.00	0.00	C
ATOM	8881	C	THR	933	-17.092	90.395	48.464	1.00	0.00	C
ATOM	8882	O	THR	933	-16.423	91.068	49.249	1.00	0.00	O
ATOM	8883	N	GLU	934	-18.167	90.863	47.804	1.00	0.00	N
ATOM	8884	HN	GLU	934	-18.700	90.196	47.246	1.00	0.00	H
ATOM	8885	CA	GLU	934	-18.624	92.219	47.821	1.00	0.00	C
ATOM	8886	CB	GLU	934	-17.520	93.275	48.073	1.00	0.00	C
ATOM	8887	CG	GLU	934	-16.275	93.174	47.186	1.00	0.00	C
ATOM	8888	CD	GLU	934	-16.497	94.007	45.934	1.00	0.00	C
ATOM	8889	OE1	GLU	934	-16.278	95.246	46.000	1.00	0.00	O
ATOM	8890	OE2	GLU	934	-16.909	93.416	44.901	1.00	0.00	O
ATOM	8891	C	GLU	934	-19.253	92.430	46.487	1.00	0.00	C
ATOM	8892	O	GLU	934	-19.600	91.459	45.823	1.00	0.00	O
ATOM	8893	N	GLY	935	-19.292	93.680	45.994	1.00	0.00	N
ATOM	8894	HN	GLY	935	-18.763	94.411	46.469	1.00	0.00	H
ATOM	8895	CA	GLY	935	-20.048	94.025	44.827	1.00	0.00	C
ATOM	8896	C	GLY	935	-19.940	95.508	44.750	1.00	0.00	C
ATOM	8897	O	GLY	935	-20.622	96.174	43.973	1.00	0.00	O
ATOM	8898	N	LEU	936	-19.048	96.051	45.599	1.00	0.00	N
ATOM	8899	HN	LEU	936	-18.547	95.433	46.237	1.00	0.00	H
ATOM	8900	CA	LEU	936	-18.767	97.457	45.651	1.00	0.00	C
ATOM	8901	CB	LEU	936	-18.095	98.040	44.393	1.00	0.00	C
ATOM	8902	CG	LEU	936	-17.422	99.426	44.593	1.00	0.00	C
ATOM	8903	CD1	LEU	936	-17.130	100.098	43.244	1.00	0.00	C
ATOM	8904	CD2	LEU	936	-18.119	100.351	45.607	1.00	0.00	C
ATOM	8905	C	LEU	936	-20.076	98.154	45.797	1.00	0.00	C
ATOM	8906	O	LEU	936	-20.424	99.037	45.016	1.00	0.00	O
ATOM	8907	N	MET	937	-20.852	97.768	46.820	1.00	0.00	N
ATOM	8908	HN	MET	937	-20.527	97.047	47.465	1.00	0.00	H
ATOM	8909	CA	MET	937	-22.137	98.370	47.005	1.00	0.00	C
ATOM	8910	CB	MET	937	-22.821	97.858	48.280	1.00	0.00	C
ATOM	8911	CG	MET	937	-23.271	96.400	48.155	1.00	0.00	C
ATOM	8912	SD	MET	937	-21.934	95.211	47.814	1.00	0.00	S
ATOM	8913	CE	MET	937	-21.000	95.502	49.342	1.00	0.00	C
ATOM	8914	C	MET	937	-21.964	99.852	47.126	1.00	0.00	C
ATOM	8915	O	MET	937	-21.044	100.332	47.786	1.00	0.00	O
ATOM	8916	N	PRO	938	-22.804	100.606	46.454	1.00	0.00	N
ATOM	8917	CA	PRO	938	-22.716	102.028	46.586	1.00	0.00	C
ATOM	8918	CD	PRO	938	-23.402	100.205	45.191	1.00	0.00	C
ATOM	8919	CB	PRO	938	-23.694	102.601	45.569	1.00	0.00	C
ATOM	8920	CG	PRO	938	-23.718	101.527	44.462	1.00	0.00	C
ATOM	8921	C	PRO	938	-23.052	102.261	48.009	1.00	0.00	C
ATOM	8922	O	PRO	938	-24.239	102.272	48.332	1.00	0.00	O
ATOM	8923	N	ASN	939	-22.035	102.514	48.853	1.00	0.00	N
ATOM	8924	HN	ASN	939	-21.094	102.694	48.502	1.00	0.00	H
ATOM	8925	CA	ASN	939	-22.312	102.523	50.258	1.00	0.00	C
ATOM	8926	CB	ASN	939	-23.130	101.275	50.613	1.00	0.00	C
ATOM	8927	CG	ASN	939	-23.246	101.109	52.104	1.00	0.00	C
ATOM	8928	OD1	ASN	939	-23.385	99.986	52.581	1.00	0.00	O
ATOM	8929	ND2	ASN	939	-23.190	102.236	52.861	1.00	0.00	N
ATOM	8930	1HD2	ASN	939	-23.075	103.169	52.465	1.00	0.00	H
ATOM	8931	2HD2	ASN	939	-23.269	102.123	53.872	1.00	0.00	H
ATOM	8932	C	ASN	939	-20.996	102.345	50.943	1.00	0.00	C
ATOM	8933	O	ASN	939	-20.686	102.988	51.944	1.00	0.00	O
ATOM	8934	N	THR	940	-20.175	101.476	50.327	1.00	0.00	N
ATOM	8935	HN	THR	940	-20.494	101.142	49.417	1.00	0.00	H
ATOM	8936	CA	THR	940	-18.915	100.952	50.768	1.00	0.00	C
ATOM	8937	CB	THR	940	-18.303	99.975	49.806	1.00	0.00	C
ATOM	8938	OG1	THR	940	-17.218	99.300	50.427	1.00	0.00	O
ATOM	8939	HG1	THR	940	-17.530	98.826	51.189	1.00	0.00	H
ATOM	8940	CG2	THR	940	-17.798	100.744	48.571	1.00	0.00	C
ATOM	8941	C	THR	940	-17.939	102.068	50.904	1.00	0.00	C
ATOM	8942	O	THR	940	-16.795	101.854	51.292	1.00	0.00	O
ATOM	8943	N	LEU	941	-18.350	103.270	50.493	1.00	0.00	N
ATOM	8944	HN	LEU	941	-19.319	103.345	50.183	1.00	0.00	H
ATOM	8945	CA	LEU	941	-17.559	104.465	50.446	1.00	0.00	C
ATOM	8946	CB	LEU	941	-18.356	105.632	49.857	1.00	0.00	C
ATOM	8947	CG	LEU	941	-18.792	105.371	48.407	1.00	0.00	C
ATOM	8948	CD1	LEU	941	-19.702	106.494	47.907	1.00	0.00	C
ATOM	8949	CD2	LEU	941	-17.588	105.126	47.483	1.00	0.00	C
ATOM	8950	C	LEU	941	-17.042	104.922	51.786	1.00	0.00	C
ATOM	8951	O	LEU	941	-16.042	105.638	51.812	1.00	0.00	O

ATOM	8952	N	GLU	942	-17.690	104.576	52.924	1.00	0.00	N
ATOM	8953	HN	GLU	942	-18.453	103.900	52.894	1.00	0.00	H
ATOM	8954	CA	GLU	942	-17.293	105.172	54.186	1.00	0.00	C
ATOM	8955	CB	GLU	942	-18.053	104.583	55.386	1.00	0.00	C
ATOM	8956	CG	GLU	942	-19.473	105.132	55.518	1.00	0.00	C
ATOM	8957	CD	GLU	942	-19.348	106.518	56.135	1.00	0.00	C
ATOM	8958	OE1	GLU	942	-19.065	106.591	57.360	1.00	0.00	O
ATOM	8959	OE2	GLU	942	-19.525	107.521	55.393	1.00	0.00	O
ATOM	8960	C	GLU	942	-15.815	105.022	54.454	1.00	0.00	C
ATOM	8961	O	GLU	942	-15.112	106.030	54.519	1.00	0.00	O
ATOM	8962	N	GLY	943	-15.271	103.790	54.521	1.00	0.00	N
ATOM	8963	HN	GLY	943	-15.856	102.957	54.453	1.00	0.00	H
ATOM	8964	CA	GLY	943	-13.844	103.676	54.691	1.00	0.00	C
ATOM	8965	C	GLY	943	-13.376	103.662	56.125	1.00	0.00	C
ATOM	8966	O	GLY	943	-12.326	104.229	56.428	1.00	0.00	O
ATOM	8967	N	ASN	944	-14.132	103.030	57.049	1.00	0.00	N
ATOM	8968	HN	ASN	944	-15.043	102.654	56.784	1.00	0.00	H
ATOM	8969	CA	ASN	944	-13.666	102.880	58.408	1.00	0.00	C
ATOM	8970	CB	ASN	944	-14.798	102.760	59.448	1.00	0.00	C
ATOM	8971	CG	ASN	944	-15.481	104.108	59.628	1.00	0.00	C
ATOM	8972	OD1	ASN	944	-16.407	104.455	58.896	1.00	0.00	O
ATOM	8973	ND2	ASN	944	-15.023	104.881	60.647	1.00	0.00	N
ATOM	8974	1HD2	ASN	944	-15.481	105.784	60.768	1.00	0.00	H
ATOM	8975	2HD2	ASN	944	-14.255	104.593	61.254	1.00	0.00	H
ATOM	8976	C	ASN	944	-12.931	101.569	58.454	1.00	0.00	C
ATOM	8977	O	ASN	944	-13.504	100.534	58.120	1.00	0.00	O
ATOM	8978	N	VAL	945	-11.643	101.562	58.878	1.00	0.00	N
ATOM	8979	HN	VAL	945	-11.208	102.417	59.224	1.00	0.00	H
ATOM	8980	CA	VAL	945	-10.897	100.327	58.833	1.00	0.00	C
ATOM	8981	CB	VAL	945	-9.489	100.503	58.342	1.00	0.00	C
ATOM	8982	CG1	VAL	945	-8.790	99.135	58.387	1.00	0.00	C
ATOM	8983	CG2	VAL	945	-9.529	101.134	56.937	1.00	0.00	C
ATOM	8984	C	VAL	945	-10.839	99.659	60.179	1.00	0.00	C
ATOM	8985	O	VAL	945	-10.641	100.301	61.209	1.00	0.00	O
ATOM	8986	N	THR	946	-10.997	98.316	60.215	1.00	0.00	N
ATOM	8987	HN	THR	946	-11.128	97.776	59.360	1.00	0.00	H
ATOM	8988	CA	THR	946	-10.973	97.679	61.500	1.00	0.00	C
ATOM	8989	CB	THR	946	-12.314	97.195	61.972	1.00	0.00	C
ATOM	8990	OG1	THR	946	-12.212	96.686	63.294	1.00	0.00	O
ATOM	8991	HG1	THR	946	-13.060	96.380	63.593	1.00	0.00	H
ATOM	8992	CG2	THR	946	-12.818	96.099	61.033	1.00	0.00	C
ATOM	8993	C	THR	946	-10.008	96.538	61.533	1.00	0.00	C
ATOM	8994	O	THR	946	-10.019	95.664	60.671	1.00	0.00	O
ATOM	8995	N	PHE	947	-9.122	96.527	62.551	1.00	0.00	N
ATOM	8996	HN	PHE	947	-9.091	97.311	63.203	1.00	0.00	H
ATOM	8997	CA	PHE	947	-8.225	95.423	62.723	1.00	0.00	C
ATOM	8998	CB	PHE	947	-6.729	95.765	62.842	1.00	0.00	C
ATOM	8999	CG	PHE	947	-6.106	95.807	61.495	1.00	0.00	C
ATOM	9000	CD1	PHE	947	-5.981	94.637	60.784	1.00	0.00	C
ATOM	9001	CD2	PHE	947	-5.610	96.973	60.963	1.00	0.00	C
ATOM	9002	CE1	PHE	947	-5.397	94.627	59.542	1.00	0.00	C
ATOM	9003	CE2	PHE	947	-5.024	96.968	59.719	1.00	0.00	C
ATOM	9004	CZ	PHE	947	-4.919	95.797	59.006	1.00	0.00	C
ATOM	9005	C	PHE	947	-8.547	94.753	64.011	1.00	0.00	C
ATOM	9006	O	PHE	947	-8.537	95.377	65.073	1.00	0.00	O
ATOM	9007	N	GLY	948	-8.801	93.433	63.953	1.00	0.00	N
ATOM	9008	HN	GLY	948	-8.769	92.927	63.068	1.00	0.00	H
ATOM	9009	CA	GLY	948	-9.117	92.766	65.175	1.00	0.00	C
ATOM	9010	C	GLY	948	-8.325	91.503	65.283	1.00	0.00	C
ATOM	9011	O	GLY	948	-8.323	90.649	64.398	1.00	0.00	O
ATOM	9012	N	GLU	949	-7.611	91.401	66.414	1.00	0.00	N
ATOM	9013	HN	GLU	949	-7.601	92.227	67.012	1.00	0.00	H
ATOM	9014	CA	GLU	949	-6.862	90.278	66.885	1.00	0.00	C
ATOM	9015	CB	GLU	949	-7.712	89.004	67.009	1.00	0.00	C
ATOM	9016	CG	GLU	949	-7.068	87.943	67.902	1.00	0.00	C
ATOM	9017	CD	GLU	949	-7.241	88.402	69.344	1.00	0.00	C
ATOM	9018	OE1	GLU	949	-8.378	88.816	69.695	1.00	0.00	O
ATOM	9019	OE2	GLU	949	-6.241	88.355	70.109	1.00	0.00	O
ATOM	9020	C	GLU	949	-5.686	89.989	66.011	1.00	0.00	C
ATOM	9021	O	GLU	949	-4.787	89.286	66.469	1.00	0.00	O
ATOM	9022	N	VAL	950	-5.589	90.678	64.846	1.00	0.00	N
ATOM	9023	HN	VAL	950	-6.254	91.437	64.696	1.00	0.00	H
ATOM	9024	CA	VAL	950	-4.627	90.430	63.802	1.00	0.00	C
ATOM	9025	CB	VAL	950	-4.410	91.609	62.899	1.00	0.00	C

ATOM	9026	CG1	VAL	950	-5.677	91.792	62.064	1.00	0.00	C
ATOM	9027	CG2	VAL	950	-4.099	92.855	63.744	1.00	0.00	C
ATOM	9028	C	VAL	950	-3.300	89.981	64.322	1.00	0.00	C
ATOM	9029	O	VAL	950	-2.576	90.707	65.003	1.00	0.00	O
ATOM	9030	N	VAL	951	-2.982	88.711	63.996	1.00	0.00	N
ATOM	9031	HN	VAL	951	-3.646	88.172	63.439	1.00	0.00	H
ATOM	9032	CA	VAL	951	-1.756	88.081	64.394	1.00	0.00	C
ATOM	9033	CB	VAL	951	-1.971	86.898	65.287	1.00	0.00	C
ATOM	9034	CG1	VAL	951	-0.600	86.318	65.629	1.00	0.00	C
ATOM	9035	CG2	VAL	951	-2.783	87.321	66.519	1.00	0.00	C
ATOM	9036	C	VAL	951	-1.140	87.572	63.124	1.00	0.00	C
ATOM	9037	O	VAL	951	-1.849	87.008	62.292	1.00	0.00	O
ATOM	9038	N	PHE	952	0.189	87.749	62.924	1.00	0.00	N
ATOM	9039	HN	PHE	952	0.784	88.154	63.647	1.00	0.00	H
ATOM	9040	CA	PHE	952	0.728	87.343	61.650	1.00	0.00	C
ATOM	9041	CB	PHE	952	0.071	88.159	60.521	1.00	0.00	C
ATOM	9042	CG	PHE	952	0.944	88.184	59.318	1.00	0.00	C
ATOM	9043	CD1	PHE	952	0.980	87.140	58.425	1.00	0.00	C
ATOM	9044	CD2	PHE	952	1.723	89.296	59.088	1.00	0.00	C
ATOM	9045	CE1	PHE	952	1.797	87.206	57.321	1.00	0.00	C
ATOM	9046	CE2	PHE	952	2.541	89.368	57.987	1.00	0.00	C
ATOM	9047	CZ	PHE	952	2.577	88.318	57.102	1.00	0.00	C
ATOM	9048	C	PHE	952	2.224	87.519	61.529	1.00	0.00	C
ATOM	9049	O	PHE	952	2.808	88.451	62.083	1.00	0.00	O
ATOM	9050	N	ASN	953	2.876	86.599	60.765	1.00	0.00	N
ATOM	9051	HN	ASN	953	2.347	85.812	60.390	1.00	0.00	H
ATOM	9052	CA	ASN	953	4.283	86.693	60.465	1.00	0.00	C
ATOM	9053	CB	ASN	953	5.196	85.835	61.352	1.00	0.00	C
ATOM	9054	CG	ASN	953	6.622	86.234	60.994	1.00	0.00	C
ATOM	9055	OD1	ASN	953	7.298	85.551	60.226	1.00	0.00	O
ATOM	9056	ND2	ASN	953	7.083	87.397	61.530	1.00	0.00	N
ATOM	9057	1HD2	ASN	953	8.038	87.664	61.290	1.00	0.00	H
ATOM	9058	2HD2	ASN	953	6.522	87.963	62.167	1.00	0.00	H
ATOM	9059	C	ASN	953	4.523	86.245	59.047	1.00	0.00	C
ATOM	9060	O	ASN	953	4.266	85.095	58.687	1.00	0.00	O
ATOM	9061	N	TYR	954	5.088	87.140	58.209	1.00	0.00	N
ATOM	9062	HN	TYR	954	5.347	88.064	58.554	1.00	0.00	H
ATOM	9063	CA	TYR	954	5.327	86.798	56.833	1.00	0.00	C
ATOM	9064	CB	TYR	954	5.913	87.939	55.977	1.00	0.00	C
ATOM	9065	CG	TYR	954	7.170	88.428	56.604	1.00	0.00	C
ATOM	9066	CD1	TYR	954	7.119	89.385	57.592	1.00	0.00	C
ATOM	9067	CD2	TYR	954	8.393	87.939	56.208	1.00	0.00	C
ATOM	9068	CE1	TYR	954	8.273	89.850	58.175	1.00	0.00	C
ATOM	9069	CE2	TYR	954	9.551	88.400	56.788	1.00	0.00	C
ATOM	9070	CZ	TYR	954	9.490	89.357	57.773	1.00	0.00	C
ATOM	9071	OH	TYR	954	10.677	89.833	58.369	1.00	0.00	O
ATOM	9072	HH	TYR	954	11.519	89.492	58.091	1.00	0.00	H
ATOM	9073	C	TYR	954	6.234	85.624	56.813	1.00	0.00	C
ATOM	9074	O	TYR	954	7.184	85.536	57.586	1.00	0.00	O
ATOM	9075	N	PRO	955	5.911	84.752	55.893	1.00	0.00	N
ATOM	9076	CA	PRO	955	6.509	83.441	55.801	1.00	0.00	C
ATOM	9077	CD	PRO	955	5.610	85.269	54.572	1.00	0.00	C
ATOM	9078	CB	PRO	955	6.251	82.947	54.390	1.00	0.00	C
ATOM	9079	CG	PRO	955	6.238	84.260	53.602	1.00	0.00	C
ATOM	9080	C	PRO	955	7.973	83.444	56.053	1.00	0.00	C
ATOM	9081	O	PRO	955	8.782	83.703	55.163	1.00	0.00	O
ATOM	9082	N	THR	956	8.278	83.162	57.317	1.00	0.00	N
ATOM	9083	HN	THR	956	7.477	83.054	57.939	1.00	0.00	H
ATOM	9084	CA	THR	956	9.543	82.988	57.934	1.00	0.00	C
ATOM	9085	CB	THR	956	10.427	84.189	57.824	1.00	0.00	C
ATOM	9086	OG1	THR	956	11.700	83.902	58.385	1.00	0.00	O
ATOM	9087	HG1	THR	956	12.110	83.176	57.929	1.00	0.00	H
ATOM	9088	CG2	THR	956	9.763	85.365	58.562	1.00	0.00	C
ATOM	9089	C	THR	956	9.076	82.901	59.343	1.00	0.00	C
ATOM	9090	O	THR	956	9.792	83.211	60.292	1.00	0.00	O
ATOM	9091	N	ARG	957	7.851	82.353	59.458	1.00	0.00	N
ATOM	9092	HN	ARG	957	7.488	81.915	58.611	1.00	0.00	H
ATOM	9093	CA	ARG	957	6.982	82.295	60.598	1.00	0.00	C
ATOM	9094	CB	ARG	957	5.694	81.505	60.307	1.00	0.00	C
ATOM	9095	CG	ARG	957	4.582	81.720	61.336	1.00	0.00	C
ATOM	9096	CD	ARG	957	3.299	80.955	61.004	1.00	0.00	C
ATOM	9097	NE	ARG	957	2.863	81.387	59.645	1.00	0.00	N
ATOM	9098	HE	ARG	957	3.073	82.329	59.314	1.00	0.00	H
ATOM	9099	CZ	ARG	957	2.181	80.514	58.847	1.00	0.00	C

ATOM	9100	NH1	ARG	957	1.862	79.275	59.320	1.00	0.00	N
ATOM	9101	1HH1	ARG	957	1.352	78.623	58.724	1.00	0.00	H
ATOM	9102	2HH1	ARG	957	2.129	79.006	60.267	1.00	0.00	H
ATOM	9103	NH2	ARG	957	1.824	80.874	57.579	1.00	0.00	N
ATOM	9104	1HH2	ARG	957	1.314	80.222	56.983	1.00	0.00	H
ATOM	9105	2HH2	ARG	957	2.063	81.800	57.225	1.00	0.00	H
ATOM	9106	C	ARG	957	7.664	81.689	61.783	1.00	0.00	C
ATOM	9107	O	ARG	957	7.265	82.013	62.901	1.00	0.00	O
ATOM	9108	N	PRO	958	8.633	80.826	61.667	1.00	0.00	N
ATOM	9109	CA	PRO	958	9.279	80.334	62.850	1.00	0.00	C
ATOM	9110	CD	PRO	958	8.736	79.860	60.587	1.00	0.00	C
ATOM	9111	CB	PRO	958	10.272	79.272	62.364	1.00	0.00	C
ATOM	9112	CG	PRO	958	10.124	79.255	60.825	1.00	0.00	C
ATOM	9113	C	PRO	958	9.884	81.474	63.610	1.00	0.00	C
ATOM	9114	O	PRO	958	10.163	81.326	64.799	1.00	0.00	O
ATOM	9115	N	ASP	959	10.093	82.614	62.933	1.00	0.00	N
ATOM	9116	HN	ASP	959	9.849	82.622	61.943	1.00	0.00	H
ATOM	9117	CA	ASP	959	10.632	83.822	63.489	1.00	0.00	C
ATOM	9118	CB	ASP	959	10.978	84.892	62.435	1.00	0.00	C
ATOM	9119	CG	ASP	959	11.933	85.885	63.088	1.00	0.00	C
ATOM	9120	OD1	ASP	959	12.642	85.471	64.043	1.00	0.00	O
ATOM	9121	OD2	ASP	959	11.966	87.065	62.648	1.00	0.00	O
ATOM	9122	C	ASP	959	9.592	84.394	64.406	1.00	0.00	C
ATOM	9123	O	ASP	959	9.786	85.446	65.011	1.00	0.00	O
ATOM	9124	N	ILE	960	8.396	83.781	64.454	1.00	0.00	N
ATOM	9125	HN	ILE	960	8.229	82.937	63.907	1.00	0.00	H
ATOM	9126	CA	ILE	960	7.357	84.324	65.281	1.00	0.00	C
ATOM	9127	CB	ILE	960	7.765	84.650	66.692	1.00	0.00	C
ATOM	9128	CG1	ILE	960	8.168	83.365	67.439	1.00	0.00	C
ATOM	9129	CG2	ILE	960	6.597	85.394	67.363	1.00	0.00	C
ATOM	9130	CD1	ILE	960	7.038	82.340	67.546	1.00	0.00	C
ATOM	9131	C	ILE	960	6.869	85.557	64.595	1.00	0.00	C
ATOM	9132	O	ILE	960	7.602	86.193	63.840	1.00	0.00	O
ATOM	9133	N	PRO	961	5.605	85.827	64.772	1.00	0.00	N
ATOM	9134	CA	PRO	961	4.991	86.954	64.113	1.00	0.00	C
ATOM	9135	CD	PRO	961	4.680	84.710	64.908	1.00	0.00	C
ATOM	9136	CB	PRO	961	3.492	86.670	64.149	1.00	0.00	C
ATOM	9137	CG	PRO	961	3.399	85.139	64.185	1.00	0.00	C
ATOM	9138	C	PRO	961	5.325	88.308	64.663	1.00	0.00	C
ATOM	9139	O	PRO	961	5.632	88.425	65.847	1.00	0.00	O
ATOM	9140	N	VAL	962	5.329	89.327	63.778	1.00	0.00	N
ATOM	9141	HN	VAL	962	5.208	89.082	62.795	1.00	0.00	H
ATOM	9142	CA	VAL	962	5.487	90.723	64.082	1.00	0.00	C
ATOM	9143	CB	VAL	962	5.983	91.534	62.918	1.00	0.00	C
ATOM	9144	CG1	VAL	962	5.035	91.344	61.728	1.00	0.00	C
ATOM	9145	CG2	VAL	962	6.122	92.996	63.374	1.00	0.00	C
ATOM	9146	C	VAL	962	4.182	91.266	64.588	1.00	0.00	C
ATOM	9147	O	VAL	962	4.145	92.352	65.168	1.00	0.00	O
ATOM	9148	N	LEU	963	3.055	90.580	64.282	1.00	0.00	N
ATOM	9149	HN	LEU	963	3.097	89.748	63.694	1.00	0.00	H
ATOM	9150	CA	LEU	963	1.794	91.047	64.803	1.00	0.00	C
ATOM	9151	CB	LEU	963	0.695	91.268	63.743	1.00	0.00	C
ATOM	9152	CG	LEU	963	1.059	92.274	62.633	1.00	0.00	C
ATOM	9153	CD1	LEU	963	1.457	93.644	63.208	1.00	0.00	C
ATOM	9154	CD2	LEU	963	2.091	91.685	61.660	1.00	0.00	C
ATOM	9155	C	LEU	963	1.268	89.968	65.697	1.00	0.00	C
ATOM	9156	O	LEU	963	0.923	88.888	65.223	1.00	0.00	O
ATOM	9157	N	GLN	964	1.178	90.228	67.017	1.00	0.00	N
ATOM	9158	HN	GLN	964	1.448	91.143	67.377	1.00	0.00	H
ATOM	9159	CA	GLN	964	0.702	89.214	67.913	1.00	0.00	C
ATOM	9160	CB	GLN	964	1.710	88.880	69.025	1.00	0.00	C
ATOM	9161	CG	GLN	964	3.078	88.426	68.523	1.00	0.00	C
ATOM	9162	CD	GLN	964	4.046	88.487	69.697	1.00	0.00	C
ATOM	9163	OE1	GLN	964	5.263	88.507	69.517	1.00	0.00	O
ATOM	9164	NE2	GLN	964	3.492	88.533	70.938	1.00	0.00	N
ATOM	9165	1HE2	GLN	964	2.483	88.516	71.087	1.00	0.00	H
ATOM	9166	2HE2	GLN	964	4.140	88.574	71.724	1.00	0.00	H
ATOM	9167	C	GLN	964	-0.469	89.771	68.659	1.00	0.00	C
ATOM	9168	O	GLN	964	-0.285	90.398	69.701	1.00	0.00	O
ATOM	9169	N	GLY	965	-1.707	89.509	68.190	1.00	0.00	N
ATOM	9170	HN	GLY	965	-1.825	88.981	67.325	1.00	0.00	H
ATOM	9171	CA	GLY	965	-2.859	89.975	68.912	1.00	0.00	C
ATOM	9172	C	GLY	965	-3.010	91.461	68.782	1.00	0.00	C
ATOM	9173	O	GLY	965	-3.083	92.170	69.785	1.00	0.00	O

ATOM	9174	N	LEU	966	-3.072	91.978	67.539	1.00	0.00	N
ATOM	9175	HN	LEU	966	-3.062	91.362	66.726	1.00	0.00	H
ATOM	9176	CA	LEU	966	-3.152	93.405	67.366	1.00	0.00	C
ATOM	9177	CB	LEU	966	-2.213	93.937	66.274	1.00	0.00	C
ATOM	9178	CG	LEU	966	-2.304	95.461	66.092	1.00	0.00	C
ATOM	9179	CD1	LEU	966	-1.887	96.213	67.367	1.00	0.00	C
ATOM	9180	CD2	LEU	966	-1.525	95.910	64.846	1.00	0.00	C
ATOM	9181	C	LEU	966	-4.545	93.810	66.974	1.00	0.00	C
ATOM	9182	O	LEU	966	-5.216	93.087	66.242	1.00	0.00	O
ATOM	9183	N	SER	967	-5.024	94.973	67.488	1.00	0.00	N
ATOM	9184	HN	SER	967	-4.452	95.486	68.159	1.00	0.00	H
ATOM	9185	CA	SER	967	-6.305	95.507	67.121	1.00	0.00	C
ATOM	9186	CB	SER	967	-7.442	95.048	68.047	1.00	0.00	C
ATOM	9187	OG	SER	967	-7.598	93.641	67.946	1.00	0.00	O
ATOM	9188	HG	SER	967	-8.301	93.357	68.519	1.00	0.00	H
ATOM	9189	C	SER	967	-6.263	97.012	67.175	1.00	0.00	C
ATOM	9190	O	SER	967	-5.865	97.606	68.177	1.00	0.00	O
ATOM	9191	N	LEU	968	-6.693	97.667	66.074	1.00	0.00	N
ATOM	9192	HN	LEU	968	-7.001	97.117	65.272	1.00	0.00	H
ATOM	9193	CA	LEU	968	-6.738	99.102	65.978	1.00	0.00	C
ATOM	9194	CB	LEU	968	-5.560	99.727	65.214	1.00	0.00	C
ATOM	9195	CG	LEU	968	-4.174	99.284	65.710	1.00	0.00	C
ATOM	9196	CD1	LEU	968	-3.988	99.574	67.205	1.00	0.00	C
ATOM	9197	CD2	LEU	968	-3.889	97.827	65.322	1.00	0.00	C
ATOM	9198	C	LEU	968	-7.936	99.404	65.133	1.00	0.00	C
ATOM	9199	O	LEU	968	-8.738	98.520	64.839	1.00	0.00	O
ATOM	9200	N	GLU	969	-8.111	100.682	64.747	1.00	0.00	N
ATOM	9201	HN	GLU	969	-7.465	101.406	65.061	1.00	0.00	H
ATOM	9202	CA	GLU	969	-9.212	101.020	63.891	1.00	0.00	C
ATOM	9203	CB	GLU	969	-10.539	101.176	64.637	1.00	0.00	C
ATOM	9204	CG	GLU	969	-10.522	102.464	65.463	1.00	0.00	C
ATOM	9205	CD	GLU	969	-11.929	102.809	65.917	1.00	0.00	C
ATOM	9206	OE1	GLU	969	-12.833	102.953	65.052	1.00	0.00	O
ATOM	9207	OE2	GLU	969	-12.110	102.942	67.155	1.00	0.00	O
ATOM	9208	C	GLU	969	-8.953	102.407	63.396	1.00	0.00	C
ATOM	9209	O	GLU	969	-8.044	103.089	63.867	1.00	0.00	O
ATOM	9210	N	VAL	970	-9.749	102.857	62.407	1.00	0.00	N
ATOM	9211	HN	VAL	970	-10.430	102.232	61.977	1.00	0.00	H
ATOM	9212	CA	VAL	970	-9.639	104.214	61.959	1.00	0.00	C
ATOM	9213	CB	VAL	970	-8.668	104.392	60.820	1.00	0.00	C
ATOM	9214	CG1	VAL	970	-9.188	103.654	59.574	1.00	0.00	C
ATOM	9215	CG2	VAL	970	-8.438	105.896	60.609	1.00	0.00	C
ATOM	9216	C	VAL	970	-10.998	104.664	61.505	1.00	0.00	C
ATOM	9217	O	VAL	970	-11.658	103.992	60.714	1.00	0.00	O
ATOM	9218	N	LYS	971	-11.435	105.852	61.971	1.00	0.00	N
ATOM	9219	HN	LYS	971	-10.826	106.388	62.588	1.00	0.00	H
ATOM	9220	CA	LYS	971	-12.725	106.395	61.634	1.00	0.00	C
ATOM	9221	CB	LYS	971	-13.075	107.665	62.426	1.00	0.00	C
ATOM	9222	CG	LYS	971	-13.256	107.418	63.926	1.00	0.00	C
ATOM	9223	CD	LYS	971	-11.965	107.018	64.642	1.00	0.00	C
ATOM	9224	CE	LYS	971	-12.147	106.788	66.144	1.00	0.00	C
ATOM	9225	NZ	LYS	971	-10.866	106.372	66.756	1.00	0.00	N
ATOM	9226	HZ1	LYS	971	-10.987	106.219	67.757	1.00	0.00	H
ATOM	9227	HZ2	LYS	971	-10.117	107.036	66.560	1.00	0.00	H
ATOM	9228	HZ3	LYS	971	-10.469	105.556	66.291	1.00	0.00	H
ATOM	9229	C	LYS	971	-12.710	106.737	60.175	1.00	0.00	C
ATOM	9230	O	LYS	971	-11.899	106.204	59.421	1.00	0.00	O
ATOM	9231	N	LYS	972	-13.649	107.586	59.705	1.00	0.00	N
ATOM	9232	HN	LYS	972	-14.349	108.013	60.311	1.00	0.00	H
ATOM	9233	CA	LYS	972	-13.594	107.846	58.294	1.00	0.00	C
ATOM	9234	CB	LYS	972	-14.903	107.590	57.519	1.00	0.00	C
ATOM	9235	CG	LYS	972	-15.910	108.737	57.556	1.00	0.00	C
ATOM	9236	CD	LYS	972	-16.471	109.050	58.938	1.00	0.00	C
ATOM	9237	CE	LYS	972	-17.264	110.355	58.955	1.00	0.00	C
ATOM	9238	NZ	LYS	972	-18.438	110.236	58.063	1.00	0.00	N
ATOM	9239	HZ1	LYS	972	-18.968	111.108	58.074	1.00	0.00	H
ATOM	9240	HZ2	LYS	972	-19.018	109.431	58.297	1.00	0.00	H
ATOM	9241	HZ3	LYS	972	-18.176	109.958	57.117	1.00	0.00	H
ATOM	9242	C	LYS	972	-13.182	109.263	58.044	1.00	0.00	C
ATOM	9243	O	LYS	972	-13.124	110.094	58.948	1.00	0.00	O
ATOM	9244	N	GLY	973	-12.776	109.539	56.793	1.00	0.00	N
ATOM	9245	HN	GLY	973	-12.694	108.772	56.126	1.00	0.00	H
ATOM	9246	CA	GLY	973	-12.454	110.864	56.358	1.00	0.00	C
ATOM	9247	C	GLY	973	-11.426	111.469	57.267	1.00	0.00	C

ATOM	9248	O	GLY	973	-11.322	112.693	57.331	1.00	0.00	O
ATOM	9249	N	GLN	974	-10.613	110.656	57.972	1.00	0.00	N
ATOM	9250	HN	GLN	974	-10.652	109.644	57.848	1.00	0.00	H
ATOM	9251	CA	GLN	974	-9.689	111.247	58.903	1.00	0.00	C
ATOM	9252	CB	GLN	974	-10.244	111.285	60.340	1.00	0.00	C
ATOM	9253	CG	GLN	974	-10.939	110.003	60.805	1.00	0.00	C
ATOM	9254	CD	GLN	974	-9.950	108.869	60.945	1.00	0.00	C
ATOM	9255	OE1	GLN	974	-9.401	108.381	59.958	1.00	0.00	O
ATOM	9256	NE2	GLN	974	-9.738	108.420	62.211	1.00	0.00	N
ATOM	9257	1HE2	GLN	974	-9.070	107.655	62.305	1.00	0.00	H
ATOM	9258	2HE2	GLN	974	-10.193	108.825	63.029	1.00	0.00	H
ATOM	9259	C	GLN	974	-8.293	110.684	58.803	1.00	0.00	C
ATOM	9260	O	GLN	974	-7.841	110.351	57.709	1.00	0.00	O
ATOM	9261	N	THR	975	-7.511	110.670	59.915	1.00	0.00	N
ATOM	9262	HN	THR	975	-7.867	110.995	60.814	1.00	0.00	H
ATOM	9263	CA	THR	975	-6.156	110.179	59.781	1.00	0.00	C
ATOM	9264	CB	THR	975	-5.118	111.240	59.550	1.00	0.00	C
ATOM	9265	OG1	THR	975	-5.262	112.299	60.480	1.00	0.00	O
ATOM	9266	HG1	THR	975	-5.209	111.982	61.374	1.00	0.00	H
ATOM	9267	CG2	THR	975	-5.204	111.750	58.113	1.00	0.00	C
ATOM	9268	C	THR	975	-5.662	109.355	60.931	1.00	0.00	C
ATOM	9269	O	THR	975	-5.470	109.840	62.048	1.00	0.00	O
ATOM	9270	N	LEU	976	-5.346	108.078	60.631	1.00	0.00	N
ATOM	9271	HN	LEU	976	-5.499	107.738	59.682	1.00	0.00	H
ATOM	9272	CA	LEU	976	-4.800	107.187	61.613	1.00	0.00	C
ATOM	9273	CB	LEU	976	-5.152	105.710	61.369	1.00	0.00	C
ATOM	9274	CG	LEU	976	-4.341	104.734	62.240	1.00	0.00	C
ATOM	9275	CD1	LEU	976	-4.373	105.111	63.726	1.00	0.00	C
ATOM	9276	CD2	LEU	976	-4.804	103.292	62.010	1.00	0.00	C
ATOM	9277	C	LEU	976	-3.311	107.344	61.613	1.00	0.00	C
ATOM	9278	O	LEU	976	-2.637	107.091	60.615	1.00	0.00	O
ATOM	9279	N	ALA	977	-2.762	107.758	62.774	1.00	0.00	N
ATOM	9280	HN	ALA	977	-3.364	107.893	63.586	1.00	0.00	H
ATOM	9281	CA	ALA	977	-1.353	108.014	62.900	1.00	0.00	C
ATOM	9282	CB	ALA	977	-1.020	109.162	63.868	1.00	0.00	C
ATOM	9283	C	ALA	977	-0.664	106.796	63.417	1.00	0.00	C
ATOM	9284	O	ALA	977	-1.040	106.220	64.439	1.00	0.00	O
ATOM	9285	N	LEU	978	0.402	106.368	62.719	1.00	0.00	N
ATOM	9286	HN	LEU	978	0.748	106.860	61.895	1.00	0.00	H
ATOM	9287	CA	LEU	978	1.015	105.180	63.210	1.00	0.00	C
ATOM	9288	CB	LEU	978	0.932	104.017	62.207	1.00	0.00	C
ATOM	9289	CG	LEU	978	1.212	102.630	62.809	1.00	0.00	C
ATOM	9290	CD1	LEU	978	2.639	102.519	63.365			

ATOM	9322	O	SER	982	10.526	98.251	62.836	1.00	0.00	O
ATOM	9323	N	GLY	983	11.146	99.619	61.140	1.00	0.00	N
ATOM	9324	HN	GLY	983	11.395	100.571	60.873	1.00	0.00	H
ATOM	9325	CA	GLY	983	11.066	98.616	60.118	1.00	0.00	C
ATOM	9326	C	GLY	983	9.708	97.996	60.089	1.00	0.00	C
ATOM	9327	O	GLY	983	8.698	98.652	59.843	1.00	0.00	O
ATOM	9328	N	CYS	984	9.670	96.680	60.358	1.00	0.00	N
ATOM	9329	HN	CYS	984	10.528	96.209	60.645	1.00	0.00	H
ATOM	9330	CA	CYS	984	8.465	95.919	60.255	1.00	0.00	C
ATOM	9331	CB	CYS	984	8.668	94.421	60.549	1.00	0.00	C
ATOM	9332	SG	CYS	984	9.256	94.106	62.240	1.00	0.00	S
ATOM	9333	C	CYS	984	7.422	96.447	61.180	1.00	0.00	C
ATOM	9334	O	CYS	984	7.688	97.242	62.079	1.00	0.00	O
ATOM	9335	N	GLY	985	6.166	96.058	60.904	1.00	0.00	N
ATOM	9336	HN	GLY	985	5.986	95.490	60.076	1.00	0.00	H
ATOM	9337	CA	GLY	985	5.075	96.431	61.757	1.00	0.00	C
ATOM	9338	C	GLY	985	4.244	97.432	61.034	1.00	0.00	C
ATOM	9339	O	GLY	985	3.058	97.195	60.808	1.00	0.00	O
ATOM	9340	N	LYS	986	4.852	98.569	60.637	1.00	0.00	N
ATOM	9341	HN	LYS	986	5.841	98.716	60.840	1.00	0.00	H
ATOM	9342	CA	LYS	986	4.112	99.568	59.933	1.00	0.00	C
ATOM	9343	CB	LYS	986	4.941	100.821	59.631	1.00	0.00	C
ATOM	9344	CG	LYS	986	5.246	101.671	60.856	1.00	0.00	C
ATOM	9345	CD	LYS	986	6.398	102.648	60.635	1.00	0.00	C
ATOM	9346	CE	LYS	986	6.607	103.604	61.808	1.00	0.00	C
ATOM	9347	NZ	LYS	986	8.010	104.067	61.830	1.00	0.00	N
ATOM	9348	HZ1	LYS	986	8.150	104.705	62.613	1.00	0.00	H
ATOM	9349	HZ2	LYS	986	8.291	104.482	60.942	1.00	0.00	H
ATOM	9350	HZ3	LYS	986	8.671	103.290	61.846	1.00	0.00	H
ATOM	9351	C	LYS	986	3.796	98.989	58.605	1.00	0.00	C
ATOM	9352	O	LYS	986	2.686	99.121	58.095	1.00	0.00	O
ATOM	9353	N	SER	987	4.812	98.329	58.022	1.00	0.00	N
ATOM	9354	HN	SER	987	5.684	98.221	58.540	1.00	0.00	H
ATOM	9355	CA	SER	987	4.725	97.772	56.710	1.00	0.00	C
ATOM	9356	CB	SER	987	6.006	97.033	56.295	1.00	0.00	C
ATOM	9357	OG	SER	987	7.132	97.875	56.458	1.00	0.00	O
ATOM	9358	HG	SER	987	7.924	97.418	56.201	1.00	0.00	H
ATOM	9359	C	SER	987	3.678	96.714	56.716	1.00	0.00	C
ATOM	9360	O	SER	987	2.772	96.726	55.887	1.00	0.00	O
ATOM	9361	N	THR	988	3.766	95.789	57.693	1.00	0.00	N
ATOM	9362	HN	THR	988	4.468	95.906	58.423	1.00	0.00	H
ATOM	9363	CA	THR	988	2.902	94.646	57.736	1.00	0.00	C
ATOM	9364	CB	THR	988	3.166	93.747	58.912	1.00	0.00	C
ATOM	9365	OG1	THR	988	2.943	94.461	60.119	1.00	0.00	O
ATOM	9366	HG1	THR	988	2.048	94.779	60.151	1.00	0.00	H
ATOM	9367	CG2	THR	988	4.616	93.232	58.860	1.00	0.00	C
ATOM	9368	C	THR	988	1.487	95.100	57.842	1.00	0.00	C
ATOM	9369	O	THR	988	0.605	94.537	57.198	1.00	0.00	O
ATOM	9370	N	VAL	989	1.219	96.126	58.666	1.00	0.00	N
ATOM	9371	HN	VAL	989	1.968	96.591	59.179	1.00	0.00	H
ATOM	9372	CA	VAL	989	-0.142	96.553	58.809	1.00	0.00	C
ATOM	9373	CB	VAL	989	-0.300	97.708	59.757	1.00	0.00	C
ATOM	9374	CG1	VAL	989	-1.763	98.187	59.719	1.00	0.00	C
ATOM	9375	CG2	VAL	989	0.166	97.258	61.151	1.00	0.00	C
ATOM	9376	C	VAL	989	-0.657	97.008	57.481	1.00	0.00	C
ATOM	9377	O	VAL	989	-1.693	96.523	57.025	1.00	0.00	O
ATOM	9378	N	VAL	990	0.084	97.908	56.797	1.00	0.00	N
ATOM	9379	HN	VAL	990	0.998	98.198	57.145	1.00	0.00	H
ATOM	9380	CA	VAL	990	-0.435	98.451	55.571	1.00	0.00	C
ATOM	9381	CB	VAL	990	0.443	99.466	54.886	1.00	0.00	C
ATOM	9382	CG1	VAL	990	0.580	100.677	55.813	1.00	0.00	C
ATOM	9383	CG2	VAL	990	1.780	98.842	54.463	1.00	0.00	C
ATOM	9384	C	VAL	990	-0.666	97.336	54.624	1.00	0.00	C
ATOM	9385	O	VAL	990	-1.737	97.230	54.030	1.00	0.00	O
ATOM	9386	N	GLN	991	0.311	96.426	54.525	1.00	0.00	N
ATOM	9387	HN	GLN	991	1.137	96.498	55.119	1.00	0.00	H
ATOM	9388	CA	GLN	991	0.198	95.356	53.589	1.00	0.00	C
ATOM	9389	CB	GLN	991	1.400	94.404	53.660	1.00	0.00	C
ATOM	9390	CG	GLN	991	2.700	95.119	53.286	1.00	0.00	C
ATOM	9391	CD	GLN	991	3.865	94.155	53.412	1.00	0.00	C
ATOM	9392	OE1	GLN	991	4.637	93.978	52.473	1.00	0.00	O
ATOM	9393	NE2	GLN	991	4.013	93.530	54.610	1.00	0.00	N
ATOM	9394	1HE2	GLN	991	3.372	93.677	55.390	1.00	0.00	H
ATOM	9395	2HE2	GLN	991	4.796	92.882	54.695	1.00	0.00	H

ATOM	9396	C	GLN	991	-1.037	94.595	53.918	1.00	0.00	C
ATOM	9397	O	GLN	991	-1.830	94.317	53.028	1.00	0.00	O
ATOM	9398	N	LEU	992	-1.299	94.340	55.210	1.00	0.00	N
ATOM	9399	HN	LEU	992	-0.691	94.721	55.935	1.00	0.00	H
ATOM	9400	CA	LEU	992	-2.430	93.535	55.578	1.00	0.00	C
ATOM	9401	CB	LEU	992	-2.584	93.387	57.098	1.00	0.00	C
ATOM	9402	CG	LEU	992	-1.513	92.481	57.732	1.00	0.00	C
ATOM	9403	CD1	LEU	992	-1.704	92.387	59.252	1.00	0.00	C
ATOM	9404	CD2	LEU	992	-1.487	91.092	57.070	1.00	0.00	C
ATOM	9405	C	LEU	992	-3.693	94.141	55.042	1.00	0.00	C
ATOM	9406	O	LEU	992	-4.579	93.406	54.606	1.00	0.00	O
ATOM	9407	N	LEU	993	-3.834	95.482	55.069	1.00	0.00	N
ATOM	9408	HN	LEU	993	-3.102	96.067	55.471	1.00	0.00	H
ATOM	9409	CA	LEU	993	-5.028	96.083	54.526	1.00	0.00	C
ATOM	9410	CB	LEU	993	-5.152	97.597	54.774	1.00	0.00	C
ATOM	9411	CG	LEU	993	-6.363	98.255	54.074	1.00	0.00	C
ATOM	9412	CD1	LEU	993	-6.709	99.581	54.748	1.00	0.00	C
ATOM	9413	CD2	LEU	993	-6.113	98.515	52.575	1.00	0.00	C
ATOM	9414	C	LEU	993	-5.058	95.818	53.061	1.00	0.00	C
ATOM	9415	O	LEU	993	-6.114	95.604	52.467	1.00	0.00	O
ATOM	9416	N	GLU	994	-3.869	95.850	52.447	1.00	0.00	N
ATOM	9417	HN	GLU	994	-3.053	96.105	53.003	1.00	0.00	H
ATOM	9418	CA	GLU	994	-3.666	95.551	51.062	1.00	0.00	C
ATOM	9419	CB	GLU	994	-2.222	95.784	50.594	1.00	0.00	C
ATOM	9420	CG	GLU	994	-1.849	97.262	50.512	1.00	0.00	C
ATOM	9421	CD	GLU	994	-2.428	97.824	49.220	1.00	0.00	C
ATOM	9422	OE1	GLU	994	-3.665	97.704	49.011	1.00	0.00	O
ATOM	9423	OE2	GLU	994	-1.629	98.382	48.422	1.00	0.00	O
ATOM	9424	C	GLU	994	-3.953	94.093	50.901	1.00	0.00	C
ATOM	9425	O	GLU	994	-3.973	93.562	49.795	1.00	0.00	O
ATOM	9426	N	ARG	995	-4.049	93.392	52.038	1.00	0.00	N
ATOM	9427	HN	ARG	995	-3.930	93.903	52.913	1.00	0.00	H
ATOM	9428	CA	ARG	995	-4.303	91.991	52.131	1.00	0.00	C
ATOM	9429	CB	ARG	995	-5.742	91.530	51.822	1.00	0.00	C
ATOM	9430	CG	ARG	995	-6.193	91.672	50.375	1.00	0.00	C
ATOM	9431	CD	ARG	995	-7.519	90.952	50.118	1.00	0.00	C
ATOM	9432	NE	ARG	995	-7.351	89.539	50.572	1.00	0.00	N
ATOM	9433	HE	ARG	995	-6.638	89.316	51.267	1.00	0.00	H
ATOM	9434	CZ	ARG	995	-8.137	88.540	50.071	1.00	0.00	C
ATOM	9435	NH1	ARG	995	-9.079	88.804	49.120	1.00	0.00	N
ATOM	9436	1HH1	ARG	995	-9.199	89.758	48.779	1.00	0.00	H
ATOM	9437	2HH1	ARG	995	-9.666	88.058	48.746	1.00	0.00	H
ATOM	9438	NH2	ARG	995	-7.976	87.263	50.527	1.00	0.00	N
ATOM	9439	1HH2	ARG	995	-7.272	87.066	51.238	1.00	0.00	H
ATOM	9440	2HH2	ARG	995	-8.563	86.517	50.153	1.00	0.00	H
ATOM	9441	C	ARG	995	-3.343	91.276	51.239	1.00	0.00	C
ATOM	9442	O	ARG	995	-3.746	90.422	50.451	1.00	0.00	O
ATOM	9443	N	PHE	996	-2.050	91.673	51.291	1.00	0.00	N
ATOM	9444	HN	PHE	996	-1.791	92.487	51.849	1.00	0.00	H
ATOM	9445	CA	PHE	996	-1.044	90.957	50.567	1.00	0.00	C
ATOM	9446	CB	PHE	996	0.340	91.631	50.526	1.00	0.00	C
ATOM	9447	CG	PHE	996	0.254	92.864	49.696	1.00	0.00	C
ATOM	9448	CD1	PHE	996	-0.293	92.811	48.435	1.00	0.00	C
ATOM	9449	CD2	PHE	996	0.774	94.056	50.147	1.00	0.00	C
ATOM	9450	CE1	PHE	996	-0.365	93.938	47.653	1.00	0.00	C
ATOM	9451	CE2	PHE	996	0.707	95.187	49.368	1.00	0.00	C
ATOM	9452	CZ	PHE	996	0.133	95.130	48.120	1.00	0.00	C
ATOM	9453	C	PHE	996	-0.855	89.646	51.250	1.00	0.00	C
ATOM	9454	O	PHE	996	-0.858	88.586	50.629	1.00	0.00	O
ATOM	9455	N	TYR	997	-0.710	89.704	52.583	1.00	0.00	N
ATOM	9456	HN	TYR	997	-0.732	90.613	53.044	1.00	0.00	H
ATOM	9457	CA	TYR	997	-0.526	88.528	53.375	1.00	0.00	C
ATOM	9458	CB	TYR	997	0.608	88.633	54.404	1.00	0.00	C
ATOM	9459	CG	TYR	997	1.863	89.105	53.759	1.00	0.00	C
ATOM	9460	CD1	TYR	997	2.041	90.453	53.558	1.00	0.00	C
ATOM	9461	CD2	TYR	997	2.857	88.232	53.378	1.00	0.00	C
ATOM	9462	CE1	TYR	997	3.190	90.932	52.981	1.00	0.00	C
ATOM	9463	CE2	TYR	997	4.011	88.707	52.800	1.00	0.00	C
ATOM	9464	CZ	TYR	997	4.177	90.058	52.601	1.00	0.00	C
ATOM	9465	OH	TYR	997	5.359	90.551	52.011	1.00	0.00	O
ATOM	9466	HH	TYR	997	5.474	91.484	51.874	1.00	0.00	H
ATOM	9467	C	TYR	997	-1.756	88.489	54.219	1.00	0.00	C
ATOM	9468	O	TYR	997	-2.224	89.525	54.688	1.00	0.00	O
ATOM	9469	N	ASP	998	-2.335	87.296	54.426	1.00	0.00	N

ATOM	9470	HN	ASP	998	-1.934	86.445	54.032	1.00	0.00	H
ATOM	9471	CA	ASP	998	-3.533	87.248	55.215	1.00	0.00	C
ATOM	9472	CB	ASP	998	-4.546	86.220	54.687	1.00	0.00	C
ATOM	9473	CG	ASP	998	-5.132	86.802	53.405	1.00	0.00	C
ATOM	9474	OD1	ASP	998	-5.758	87.892	53.500	1.00	0.00	O
ATOM	9475	OD2	ASP	998	-4.957	86.186	52.320	1.00	0.00	O
ATOM	9476	C	ASP	998	-3.167	86.913	56.621	1.00	0.00	C
ATOM	9477	O	ASP	998	-2.390	85.995	56.889	1.00	0.00	O
ATOM	9478	N	PRO	999	-3.745	87.659	57.524	1.00	0.00	N
ATOM	9479	CA	PRO	999	-3.454	87.528	58.926	1.00	0.00	C
ATOM	9480	CD	PRO	999	-5.061	88.233	57.290	1.00	0.00	C
ATOM	9481	CB	PRO	999	-4.466	88.427	59.631	1.00	0.00	C
ATOM	9482	CG	PRO	999	-5.682	88.390	58.687	1.00	0.00	C
ATOM	9483	C	PRO	999	-3.594	86.103	59.352	1.00	0.00	C
ATOM	9484	O	PRO	999	-4.509	85.422	58.895	1.00	0.00	O
ATOM	9485	N	LEU	1000	-2.683	85.635	60.226	1.00	0.00	N
ATOM	9486	HN	LEU	1000	-1.941	86.258	60.546	1.00	0.00	H
ATOM	9487	CA	LEU	1000	-2.721	84.291	60.721	1.00	0.00	C
ATOM	9488	CB	LEU	1000	-1.562	83.972	61.682	1.00	0.00	C
ATOM	9489	CG	LEU	1000	-0.179	83.904	61.013	1.00	0.00	C
ATOM	9490	CD1	LEU	1000	0.913	83.581	62.046	1.00	0.00	C
ATOM	9491	CD2	LEU	1000	-0.180	82.908	59.842	1.00	0.00	C
ATOM	9492	C	LEU	1000	-3.988	84.125	61.498	1.00	0.00	C
ATOM	9493	O	LEU	1000	-4.609	83.067	61.450	1.00	0.00	O
ATOM	9494	N	ALA	1001	-4.399	85.157	62.264	1.00	0.00	N
ATOM	9495	HN	ALA	1001	-3.857	86.020	62.297	1.00	0.00	H
ATOM	9496	CA	ALA	1001	-5.608	85.031	63.034	1.00	0.00	C
ATOM	9497	CB	ALA	1001	-5.373	84.508	64.459	1.00	0.00	C
ATOM	9498	C	ALA	1001	-6.225	86.390	63.190	1.00	0.00	C
ATOM	9499	O	ALA	1001	-5.526	87.401	63.218	1.00	0.00	O
ATOM	9500	N	GLY	1002	-7.568	86.442	63.332	1.00	0.00	N
ATOM	9501	HN	GLY	1002	-8.111	85.579	63.318	1.00	0.00	H
ATOM	9502	CA	GLY	1002	-8.240	87.703	63.503	1.00	0.00	C
ATOM	9503	C	GLY	1002	-8.729	88.155	62.159	1.00	0.00	C
ATOM	9504	O	GLY	1002	-8.600	87.422	61.181	1.00	0.00	O
ATOM	9505	N	LYS	1003	-9.327	89.370	62.074	1.00	0.00	N
ATOM	9506	HN	LYS	1003	-9.405	89.966	62.898	1.00	0.00	H
ATOM	9507	CA	LYS	1003	-9.851	89.809	60.806	1.00	0.00	C
ATOM	9508	CB	LYS	1003	-11.281	89.306	60.522	1.00	0.00	C
ATOM	9509	CG	LYS	1003	-12.335	89.767	61.534	1.00	0.00	C
ATOM	9510	CD	LYS	1003	-12.054	89.302	62.965	1.00	0.00	C
ATOM	9511	CE	LYS	1003	-13.191	89.584	63.952	1.00	0.00	C
ATOM	9512	NZ	LYS	1003	-13.985	88.355	64.175	1.00	0.00	N
ATOM	9513	HZ1	LYS	1003	-14.742	88.543	64.832	1.00	0.00	H
ATOM	9514	HZ2	LYS	1003	-13.403	87.573	64.476	1.00	0.00	H
ATOM	9515	HZ3	LYS	1003	-14.328	87.958	63.300	1.00	0.00	H
ATOM	9516	C	LYS	1003	-9.861	91.312	60.708	1.00	0.00	C
ATOM	9517	O	LYS	1003	-9.447	92.023	61.620	1.00	0.00	O
ATOM	9518	N	VAL	1004	-10.317	91.848	59.553	1.00	0.00	N
ATOM	9519	HN	VAL	1004	-10.644	91.238	58.803	1.00	0.00	H
ATOM	9520	CA	VAL	1004	-10.343	93.278	59.378	1.00	0.00	C
ATOM	9521	CB	VAL	1004	-9.047	93.773	58.752	1.00	0.00	C
ATOM	9522	CG1	VAL	1004	-8.573	92.726	57.748	1.00	0.00	C
ATOM	9523	CG2	VAL	1004	-9.192	95.162	58.109	1.00	0.00	C
ATOM	9524	C	VAL	1004	-11.593	93.678	58.636	1.00	0.00	C
ATOM	9525	O	VAL	1004	-12.336	92.818	58.183	1.00	0.00	O
ATOM	9526	N	LEU	1005	-11.943	94.984	58.605	1.00	0.00	N
ATOM	9527	HN	LEU	1005	-11.387	95.659	59.130	1.00	0.00	H
ATOM	9528	CA	LEU	1005	-13.083	95.448	57.849	1.00	0.00	C
ATOM	9529	CB	LEU	1005	-14.412	95.512	58.627	1.00	0.00	C
ATOM	9530	CG	LEU	1005	-14.954	94.149	59.093	1.00	0.00	C
ATOM	9531	CD1	LEU	1005	-14.088	93.558	60.215	1.00	0.00	C
ATOM	9532	CD2	LEU	1005	-16.445	94.239	59.459	1.00	0.00	C
ATOM	9533	C	LEU	1005	-12.786	96.846	57.398	1.00	0.00	C
ATOM	9534	O	LEU	1005	-12.820	97.792	58.182	1.00	0.00	O
ATOM	9535	N	LEU	1006	-12.559	97.018	56.087	1.00	0.00	N
ATOM	9536	HN	LEU	1006	-12.636	96.214	55.465	1.00	0.00	H
ATOM	9537	CA	LEU	1006	-12.212	98.292	55.530	1.00	0.00	C
ATOM	9538	CB	LEU	1006	-11.828	98.247	54.039	1.00	0.00	C
ATOM	9539	CG	LEU	1006	-13.013	98.056	53.083	1.00	0.00	C
ATOM	9540	CD1	LEU	1006	-12.529	97.875	51.633	1.00	0.00	C
ATOM	9541	CD2	LEU	1006	-13.955	96.944	53.569	1.00	0.00	C
ATOM	9542	C	LEU	1006	-13.375	99.192	55.734	1.00	0.00	C
ATOM	9543	O	LEU	1006	-13.291	100.408	55.570	1.00	0.00	O

ATOM	9544	N	ASP	1007	-14.538	98.589	55.999	1.00	0.00	N
ATOM	9545	HN	ASP	1007	-14.594	97.571	56.030	1.00	0.00	H
ATOM	9546	CA	ASP	1007	-15.697	99.378	56.237	1.00	0.00	C
ATOM	9547	CB	ASP	1007	-16.335	99.819	54.909	1.00	0.00	C
ATOM	9548	CG	ASP	1007	-17.520	100.730	55.181	1.00	0.00	C
ATOM	9549	OD1	ASP	1007	-17.316	101.799	55.813	1.00	0.00	O
ATOM	9550	OD2	ASP	1007	-18.649	100.359	54.763	1.00	0.00	O
ATOM	9551	C	ASP	1007	-16.667	98.476	56.923	1.00	0.00	C
ATOM	9552	O	ASP	1007	-16.865	98.536	58.134	1.00	0.00	O
ATOM	9553	N	GLY	1008	-17.411	97.725	56.097	1.00	0.00	N
ATOM	9554	HN	GLY	1008	-17.232	97.818	55.097	1.00	0.00	H
ATOM	9555	CA	GLY	1008	-18.434	96.804	56.494	1.00	0.00	C
ATOM	9556	C	GLY	1008	-18.100	95.389	56.860	1.00	0.00	C
ATOM	9557	O	GLY	1008	-18.722	94.851	57.775	1.00	0.00	O
ATOM	9558	N	LYS	1009	-17.196	94.697	56.124	1.00	0.00	N
ATOM	9559	HN	LYS	1009	-16.592	95.141	55.432	1.00	0.00	H
ATOM	9560	CA	LYS	1009	-17.159	93.284	56.399	1.00	0.00	C
ATOM	9561	CB	LYS	1009	-18.181	92.470	55.584	1.00	0.00	C
ATOM	9562	CG	LYS	1009	-19.617	92.994	55.643	1.00	0.00	C
ATOM	9563	CD	LYS	1009	-19.832	94.238	54.777	1.00	0.00	C
ATOM	9564	CE	LYS	1009	-21.221	94.861	54.913	1.00	0.00	C
ATOM	9565	NZ	LYS	1009	-21.187	96.252	54.409	1.00	0.00	N
ATOM	9566	HZ1	LYS	1009	-22.114	96.668	54.500	1.00	0.00	H
ATOM	9567	HZ2	LYS	1009	-20.830	96.308	53.455	1.00	0.00	H
ATOM	9568	HZ3	LYS	1009	-20.467	96.811	54.867	1.00	0.00	H
ATOM	9569	C	LYS	1009	-15.838	92.712	56.025	1.00	0.00	C
ATOM	9570	O	LYS	1009	-15.232	93.102	55.026	1.00	0.00	O
ATOM	9571	N	GLU	1010	-15.475	91.658	56.783	1.00	0.00	N
ATOM	9572	HN	GLU	1010	-16.188	91.315	57.426	1.00	0.00	H
ATOM	9573	CA	GLU	1010	-14.233	90.953	56.813	1.00	0.00	C
ATOM	9574	CB	GLU	1010	-14.383	89.426	56.915	1.00	0.00	C
ATOM	9575	CG	GLU	1010	-15.047	88.926	58.193	1.00	0.00	C
ATOM	9576	CD	GLU	1010	-15.094	87.409	58.096	1.00	0.00	C
ATOM	9577	OE1	GLU	1010	-14.350	86.844	57.249	1.00	0.00	O
ATOM	9578	OE2	GLU	1010	-15.873	86.793	58.871	1.00	0.00	O
ATOM	9579	C	GLU	1010	-13.412	91.172	55.607	1.00	0.00	C
ATOM	9580	O	GLU	1010	-13.673	90.626	54.536	1.00	0.00	O
ATOM	9581	N	ILE	1011	-12.328	91.958	55.772	1.00	0.00	N
ATOM	9582	HN	ILE	1011	-12.220	92.541	56.602	1.00	0.00	H
ATOM	9583	CA	ILE	1011	-11.352	91.945	54.758	1.00	0.00	C
ATOM	9584	CB	ILE	1011	-10.711	93.248	54.365	1.00	0.00	C
ATOM	9585	CG1	ILE	1011	-9.985	93.981	55.479	1.00	0.00	C
ATOM	9586	CG2	ILE	1011	-11.799	94.102	53.710	1.00	0.00	C
ATOM	9587	CD1	ILE	1011	-9.335	95.230	54.897	1.00	0.00	C
ATOM	9588	C	ILE	1011	-10.420	90.875	55.193	1.00	0.00	C
ATOM	9589	O	ILE	1011	-9.328	91.095	55.704	1.00	0.00	O
ATOM	9590	N	LYS	1012	-11.083	89.727	55.395	1.00	0.00	N
ATOM	9591	HN	LYS	1012	-12.057	89.856	55.668	1.00	0.00	H
ATOM	9592	CA	LYS	1012	-10.692	88.378	55.302	1.00	0.00	C
ATOM	9593	CB	LYS	1012	-11.442	87.519	56.326	1.00	0.00	C
ATOM	9594	CG	LYS	1012	-11.238	86.018	56.143	1.00	0.00	C
ATOM	9595	CD	LYS	1012	-9.826	85.536	56.476	1.00	0.00	C
ATOM	9596	CE	LYS	1012	-9.587	85.321	57.973	1.00	0.00	C
ATOM	9597	NZ	LYS	1012	-8.297	84.628	58.188	1.00	0.00	N
ATOM	9598	HZ1	LYS	1012	-8.138	84.485	59.185	1.00	0.00	H
ATOM	9599	HZ2	LYS	1012	-7.521	85.120	57.744	1.00	0.00	H
ATOM	9600	HZ3	LYS	1012	-8.241	83.755	57.663	1.00	0.00	H
ATOM	9601	C	LYS	1012	-11.237	88.028	53.961	1.00	0.00	C
ATOM	9602	O	LYS	1012	-10.547	87.582	53.046	1.00	0.00	O
ATOM	9603	N	ARG	1013	-12.558	88.335	53.831	1.00	0.00	N
ATOM	9604	HN	ARG	1013	-13.045	88.778	54.610	1.00	0.00	H
ATOM	9605	CA	ARG	1013	-13.278	88.051	52.628	1.00	0.00	C
ATOM	9606	CB	ARG	1013	-14.256	86.858	52.690	1.00	0.00	C
ATOM	9607	CG	ARG	1013	-15.417	86.940	53.686	1.00	0.00	C
ATOM	9608	CD	ARG	1013	-16.486	85.881	53.381	1.00	0.00	C
ATOM	9609	NE	ARG	1013	-17.397	85.753	54.554	1.00	0.00	N
ATOM	9610	HE	ARG	1013	-17.225	86.297	55.399	1.00	0.00	H
ATOM	9611	CZ	ARG	1013	-18.464	84.902	54.489	1.00	0.00	C
ATOM	9612	NH1	ARG	1013	-18.769	84.275	53.317	1.00	0.00	N
ATOM	9613	1HH1	ARG	1013	-19.566	83.640	53.268	1.00	0.00	H
ATOM	9614	2HH1	ARG	1013	-18.202	84.447	52.487	1.00	0.00	H
ATOM	9615	NH2	ARG	1013	-19.223	84.672	55.601	1.00	0.00	N
ATOM	9616	1HH2	ARG	1013	-20.020	84.037	55.552	1.00	0.00	H
ATOM	9617	2HH2	ARG	1013	-18.995	85.141	56.478	1.00	0.00	H

ATOM	9618	C	ARG	1013	-14.041	89.257	52.194	1.00	0.00	C
ATOM	9619	O	ARG	1013	-15.131	89.560	52.680	1.00	0.00	O
ATOM	9620	N	LEU	1014	-13.424	89.976	51.245	1.00	0.00	N
ATOM	9621	HN	LEU	1014	-12.493	89.656	50.978	1.00	0.00	H
ATOM	9622	CA	LEU	1014	-13.907	91.134	50.560	1.00	0.00	C
ATOM	9623	CB	LEU	1014	-13.392	92.442	51.185	1.00	0.00	C
ATOM	9624	CG	LEU	1014	-13.891	93.714	50.484	1.00	0.00	C
ATOM	9625	CD1	LEU	1014	-15.424	93.801	50.540	1.00	0.00	C
ATOM	9626	CD2	LEU	1014	-13.210	94.966	51.062	1.00	0.00	C
ATOM	9627	C	LEU	1014	-13.246	90.963	49.228	1.00	0.00	C
ATOM	9628	O	LEU	1014	-12.138	90.432	49.187	1.00	0.00	O
ATOM	9629	N	ASN	1015	-13.879	91.372	48.106	1.00	0.00	N
ATOM	9630	HN	ASN	1015	-14.783	91.843	48.137	1.00	0.00	H
ATOM	9631	CA	ASN	1015	-13.201	91.104	46.863	1.00	0.00	C
ATOM	9632	CB	ASN	1015	-13.981	91.488	45.597	1.00	0.00	C
ATOM	9633	CG	ASN	1015	-13.059	91.199	44.421	1.00	0.00	C
ATOM	9634	OD1	ASN	1015	-12.344	92.087	43.958	1.00	0.00	O
ATOM	9635	ND2	ASN	1015	-13.050	89.926	43.942	1.00	0.00	N
ATOM	9636	1HD2	ASN	1015	-13.643	89.190	44.326	1.00	0.00	H
ATOM	9637	2HD2	ASN	1015	-12.432	89.732	43.154	1.00	0.00	H
ATOM	9638	C	ASN	1015	-11.905	91.837	46.841	1.00	0.00	C
ATOM	9639	O	ASN	1015	-11.863	93.063	46.818	1.00	0.00	O
ATOM	9640	N	VAL	1016	-10.805	91.072	46.749	1.00	0.00	N
ATOM	9641	HN	VAL	1016	-10.916	90.068	46.608	1.00	0.00	H
ATOM	9642	CA	VAL	1016	-9.481	91.614	46.842	1.00	0.00	C
ATOM	9643	CB	VAL	1016	-8.427	90.554	46.658	1.00	0.00	C
ATOM	9644	CG1	VAL	1016	-8.695	89.823	45.331	1.00	0.00	C
ATOM	9645	CG2	VAL	1016	-7.037	91.210	46.728	1.00	0.00	C
ATOM	9646	C	VAL	1016	-9.267	92.669	45.802	1.00	0.00	C
ATOM	9647	O	VAL	1016	-8.769	93.750	46.115	1.00	0.00	O
ATOM	9648	N	GLN	1017	-9.677	92.411	44.546	1.00	0.00	N
ATOM	9649	HN	GLN	1017	-10.172	91.544	44.337	1.00	0.00	H
ATOM	9650	CA	GLN	1017	-9.414	93.362	43.500	1.00	0.00	C
ATOM	9651	CB	GLN	1017	-10.019	92.945	42.150	1.00	0.00	C
ATOM	9652	CG	GLN	1017	-9.395	91.683	41.556	1.00	0.00	C
ATOM	9653	CD	GLN	1017	-8.062	92.078	40.942	1.00	0.00	C
ATOM	9654	OE1	GLN	1017	-7.678	93.246	40.964	1.00	0.00	O
ATOM	9655	NE2	GLN	1017	-7.338	91.079	40.369	1.00	0.00	N
ATOM	9656	1HE2	GLN	1017	-7.657	90.110	40.351	1.00	0.00	H
ATOM	9657	2HE2	GLN	1017	-6.443	91.344	39.957	1.00	0.00	H
ATOM	9658	C	GLN	1017	-10.054	94.658	43.869	1.00	0.00	C
ATOM	9659	O	GLN	1017	-9.466	95.722	43.684	1.00	0.00	O
ATOM	9660	N	TRP	1018	-11.299	94.608	44.369	1.00	0.00	N
ATOM	9661	HN	TRP	1018	-11.775	93.713	44.478	1.00	0.00	H
ATOM	9662	CA	TRP	1018	-11.951	95.826	44.748	1.00	0.00	C
ATOM	9663	CB	TRP	1018	-13.460	95.696	44.963	1.00	0.00	C
ATOM	9664	CG	TRP	1018	-14.026	97.023	45.380	1.00	0.00	C
ATOM	9665	CD2	TRP	1018	-14.255	97.390	46.746	1.00	0.00	C
ATOM	9666	CD1	TRP	1018	-14.377	98.100	44.622	1.00	0.00	C
ATOM	9667	NE1	TRP	1018	-14.792	99.126	45.434	1.00	0.00	N
ATOM	9668	HE1	TRP	1018	-15.097	100.048	45.121	1.00	0.00	H
ATOM	9669	CE2	TRP	1018	-14.727	98.700	46.744	1.00	0.00	C
ATOM	9670	CE3	TRP	1018	-14.071	96.695	47.906	1.00	0.00	C
ATOM	9671	CZ2	TRP	1018	-15.030	99.341	47.909	1.00	0.00	C
ATOM	9672	CZ3	TRP	1018	-14.389	97.337	49.080	1.00	0.00	C
ATOM	9673	CH2	TRP	1018	-14.859	98.634	49.080	1.00	0.00	C
ATOM	9674	C	TRP	1018	-11.357	96.393	46.001	1.00	0.00	C
ATOM	9675	O	TRP	1018	-11.241	97.610	46.146	1.00	0.00	O
ATOM	9676	N	LEU	1019	-10.970	95.524	46.953	1.00	0.00	N
ATOM	9677	HN	LEU	1019	-11.056	94.521	46.790	1.00	0.00	H
ATOM	9678	CA	LEU	1019	-10.436	96.004	48.200	1.00	0.00	C
ATOM	9679	CB	LEU	1019	-9.984	94.848	49.114	1.00	0.00	C
ATOM	9680	CG	LEU	1019	-9.597	95.228	50.561	1.00	0.00	C
ATOM	9681	CD1	LEU	1019	-9.176	93.978	51.339	1.00	0.00	C
ATOM	9682	CD2	LEU	1019	-8.521	96.320	50.645	1.00	0.00	C
ATOM	9683	C	LEU	1019	-9.249	96.850	47.848	1.00	0.00	C
ATOM	9684	O	LEU	1019	-9.054	97.932	48.397	1.00	0.00	O
ATOM	9685	N	ARG	1020	-8.442	96.377	46.890	1.00	0.00	N
ATOM	9686	HN	ARG	1020	-8.659	95.468	46.481	1.00	0.00	H
ATOM	9687	CA	ARG	1020	-7.286	97.082	46.408	1.00	0.00	C
ATOM	9688	CB	ARG	1020	-6.341	96.234	45.542	1.00	0.00	C
ATOM	9689	CG	ARG	1020	-5.586	95.177	46.349	1.00	0.00	C
ATOM	9690	CD	ARG	1020	-4.536	94.410	45.545	1.00	0.00	C
ATOM	9691	NE	ARG	1020	-3.938	93.390	46.452	1.00	0.00	N

ATOM	9692	HE	ARG	1020	-3.829	93.584	47.448	1.00	0.00	H
ATOM	9693	CZ	ARG	1020	-3.538	92.194	45.933	1.00	0.00	C
ATOM	9694	NH1	ARG	1020	-3.662	91.967	44.593	1.00	0.00	N
ATOM	9695	1HH1	ARG	1020	-3.363	91.072	44.205	1.00	0.00	H
ATOM	9696	2HH1	ARG	1020	-4.044	92.690	43.984	1.00	0.00	H
ATOM	9697	NH2	ARG	1020	-3.026	91.226	46.749	1.00	0.00	N
ATOM	9698	1HH2	ARG	1020	-2.727	90.331	46.361	1.00	0.00	H
ATOM	9699	2HH2	ARG	1020	-2.933	91.396	47.751	1.00	0.00	H
ATOM	9700	C	ARG	1020	-7.708	98.252	45.588	1.00	0.00	C
ATOM	9701	O	ARG	1020	-6.895	99.115	45.278	1.00	0.00	O
ATOM	9702	N	ALA	1021	-8.967	98.283	45.132	1.00	0.00	N
ATOM	9703	HN	ALA	1021	-9.611	97.523	45.354	1.00	0.00	H
ATOM	9704	CA	ALA	1021	-9.406	99.386	44.332	1.00	0.00	C
ATOM	9705	CB	ALA	1021	-10.902	99.321	43.980	1.00	0.00	C
ATOM	9706	C	ALA	1021	-9.174	100.625	45.142	1.00	0.00	C
ATOM	9707	O	ALA	1021	-8.716	101.640	44.618	1.00	0.00	O
ATOM	9708	N	HIS	1022	-9.458	100.571	46.456	1.00	0.00	N
ATOM	9709	HN	HIS	1022	-9.821	99.714	46.874	1.00	0.00	H
ATOM	9710	CA	HIS	1022	-9.241	101.740	47.258	1.00	0.00	C
ATOM	9711	ND1	HIS	1022	-12.410	103.257	47.309	1.00	0.00	N
ATOM	9712	HD1	HIS	1022	-12.132	104.187	47.623	1.00	0.00	H
ATOM	9713	CG	HIS	1022	-11.722	102.081	47.513	1.00	0.00	C
ATOM	9714	CB	HIS	1022	-10.407	101.974	48.234	1.00	0.00	C
ATOM	9715	NE2	HIS	1022	-13.609	101.646	46.351	1.00	0.00	N
ATOM	9716	HE2	HIS	1022	-14.345	101.154	45.845	1.00	0.00	H
ATOM	9717	CD2	HIS	1022	-12.469	101.109	46.922	1.00	0.00	C
ATOM	9718	CE1	HIS	1022	-13.529	102.939	46.609	1.00	0.00	C
ATOM	9719	C	HIS	1022	-7.979	101.552	48.050	1.00	0.00	C
ATOM	9720	O	HIS	1022	-7.904	100.707	48.941	1.00	0.00	O
ATOM	9721	N	LEU	1023	-6.924	102.326	47.717	1.00	0.00	N
ATOM	9722	HN	LEU	1023	-6.996	102.981	46.938	1.00	0.00	H
ATOM	9723	CA	LEU	1023	-5.702	102.225	48.462	1.00	0.00	C
ATOM	9724	CB	LEU	1023	-4.981	100.871	48.234	1.00	0.00	C
ATOM	9725	CG	LEU	1023	-4.389	100.630	46.825	1.00	0.00	C
ATOM	9726	CD1	LEU	1023	-4.028	99.152	46.605	1.00	0.00	C
ATOM	9727	CD2	LEU	1023	-5.255	101.244	45.713	1.00	0.00	C
ATOM	9728	C	LEU	1023	-4.811	103.370	48.063	1.00	0.00	C
ATOM	9729	O	LEU	1023	-4.096	103.324	47.064	1.00	0.00	O
ATOM	9730	N	GLY	1024	-4.794	104.453	48.856	1.00	0.00	N
ATOM	9731	HN	GLY	1024	-5.361	104.506	49.702	1.00	0.00	H
ATOM	9732	CA	GLY	1024	-3.939	105.530	48.454	1.00	0.00	C
ATOM	9733	C	GLY	1024	-2.598	105.204	49.010	1.00	0.00	C
ATOM	9734	O	GLY	1024	-2.196	105.733	50.041	1.00	0.00	O
ATOM	9735	N	ILE	1025	-1.851	104.346	48.294	1.00	0.00	N
ATOM	9736	HN	ILE	1025	-2.205	104.017	47.396	1.00	0.00	H
ATOM	9737	CA	ILE	1025	-0.577	103.878	48.748	1.00	0.00	C
ATOM	9738	CB	ILE	1025	-0.356	102.420	48.456	1.00	0.00	C
ATOM	9739	CG1	ILE	1025	1.036	101.968	48.935	1.00	0.00	C
ATOM	9740	CG2	ILE	1025	-0.616	102.191	46.958	1.00	0.00	C
ATOM	9741	CD1	ILE	1025	1.230	102.007	50.450	1.00	0.00	C
ATOM	9742	C	ILE	1025	0.519	104.646	48.085	1.00	0.00	C
ATOM	9743	O	ILE	1025	0.456	104.970	46.900	1.00	0.00	O
ATOM	9744	N	VAL	1026	1.527	105.022	48.896	1.00	0.00	N
ATOM	9745	HN	VAL	1026	1.432	104.843	49.896	1.00	0.00	H
ATOM	9746	CA	VAL	1026	2.725	105.659	48.434	1.00	0.00	C
ATOM	9747	CB	VAL	1026	2.630	107.156	48.425	1.00	0.00	C
ATOM	9748	CG1	VAL	1026	3.982	107.727	47.967	1.00	0.00	C
ATOM	9749	CG2	VAL	1026	1.440	107.578	47.544	1.00	0.00	C
ATOM	9750	C	VAL	1026	3.758	105.282	49.454	1.00	0.00	C
ATOM	9751	O	VAL	1026	3.511	105.428	50.651	1.00	0.00	O
ATOM	9752	N	SER	1027	4.951	104.821	49.019	1.00	0.00	N
ATOM	9753	HN	SER	1027	5.156	104.806	48.020	1.00	0.00	H
ATOM	9754	CA	SER	1027	5.934	104.350	49.960	1.00	0.00	C
ATOM	9755	CB	SER	1027	6.253	102.849	49.856	1.00	0.00	C
ATOM	9756	OG	SER	1027	5.157	102.072	50.304	1.00	0.00	O
ATOM	9757	HG	SER	1027	5.354	101.145	50.240	1.00	0.00	H
ATOM	9758	C	SER	1027	7.243	105.031	49.744	1.00	0.00	C
ATOM	9759	O	SER	1027	7.402	105.880	48.867	1.00	0.00	O
ATOM	9760	N	GLN	1028	8.239	104.610	50.552	1.00	0.00	N
ATOM	9761	HN	GLN	1028	8.081	103.810	51.165	1.00	0.00	H
ATOM	9762	CA	GLN	1028	9.509	105.262	50.566	1.00	0.00	C
ATOM	9763	CB	GLN	1028	10.494	104.531	51.485	1.00	0.00	C
ATOM	9764	CG	GLN	1028	9.999	104.530	52.933	1.00	0.00	C
ATOM	9765	CD	GLN	1028	10.823	103.537	53.734	1.00	0.00	C

ATOM	9766	OE1	GLN	1028	11.852	103.885	54.308	1.00	0.00	O
ATOM	9767	NE2	GLN	1028	10.358	102.260	53.781	1.00	0.00	N
ATOM	9768	1HE2	GLN	1028	10.911	101.593	54.319	1.00	0.00	H
ATOM	9769	2HE2	GLN	1028	9.504	101.971	53.304	1.00	0.00	H
ATOM	9770	C	GLN	1028	10.070	105.288	49.183	1.00	0.00	C
ATOM	9771	O	GLN	1028	10.264	106.367	48.624	1.00	0.00	O
ATOM	9772	N	GLU	1029	10.259	104.117	48.548	1.00	0.00	N
ATOM	9773	HN	GLU	1029	10.012	103.234	48.995	1.00	0.00	H
ATOM	9774	CA	GLU	1029	10.816	104.141	47.227	1.00	0.00	C
ATOM	9775	CB	GLU	1029	11.760	102.960	46.934	1.00	0.00	C
ATOM	9776	CG	GLU	1029	12.358	102.983	45.524	1.00	0.00	C
ATOM	9777	CD	GLU	1029	13.436	104.054	45.491	1.00	0.00	C
ATOM	9778	OE1	GLU	1029	13.752	104.597	46.581	1.00	0.00	O
ATOM	9779	OE2	GLU	1029	13.953	104.347	44.380	1.00	0.00	O
ATOM	9780	C	GLU	1029	9.675	104.050	46.269	1.00	0.00	C
ATOM	9781	O	GLU	1029	8.999	103.030	46.161	1.00	0.00	O
ATOM	9782	N	PRO	1030	9.468	105.122	45.566	1.00	0.00	N
ATOM	9783	CA	PRO	1030	8.436	105.248	44.576	1.00	0.00	C
ATOM	9784	CD	PRO	1030	10.177	106.367	45.800	1.00	0.00	C
ATOM	9785	CB	PRO	1030	8.330	106.743	44.286	1.00	0.00	C
ATOM	9786	CG	PRO	1030	9.719	107.291	44.661	1.00	0.00	C
ATOM	9787	C	PRO	1030	8.923	104.495	43.384	1.00	0.00	C
ATOM	9788	O	PRO	1030	9.885	103.737	43.511	1.00	0.00	O
ATOM	9789	N	ILE	1031	8.196	104.581	42.256	1.00	0.00	N
ATOM	9790	HN	ILE	1031	7.303	105.073	42.262	1.00	0.00	H
ATOM	9791	CA	ILE	1031	8.676	103.981	41.043	1.00	0.00	C
ATOM	9792	CB	ILE	1031	8.943	102.512	41.179	1.00	0.00	C
ATOM	9793	CG1	ILE	1031	9.516	101.943	39.870	1.00	0.00	C
ATOM	9794	CG2	ILE	1031	7.639	101.847	41.648	1.00	0.00	C
ATOM	9795	CD1	ILE	1031	10.843	102.580	39.458	1.00	0.00	C
ATOM	9796	C	ILE	1031	7.650	104.176	39.972	1.00	0.00	C
ATOM	9797	O	ILE	1031	6.486	104.449	40.260	1.00	0.00	O
ATOM	9798	N	LEU	1032	8.063	104.051	38.692	1.00	0.00	N
ATOM	9799	HN	LEU	1032	9.046	103.870	38.491	1.00	0.00	H
ATOM	9800	CA	LEU	1032	7.122	104.172	37.613	1.00	0.00	C
ATOM	9801	CB	LEU	1032	7.037	105.590	37.015	1.00	0.00	C
ATOM	9802	CG	LEU	1032	6.840	106.740	38.014	1.00	0.00	C
ATOM	9803	CD1	LEU	1032	8.079	106.897	38.908	1.00	0.00	C
ATOM	9804	CD2	LEU	1032	6.482	108.050	37.291	1.00	0.00	C
ATOM	9805	C	LEU	1032	7.656	103.381	36.458	1.00	0.00	C
ATOM	9806	O	LEU	1032	8.849	103.434	36.163	1.00	0.00	O
ATOM	9807	N	PHE	1033	6.774	102.650	35.752	1.00	0.00	N
ATOM	9808	HN	PHE	1033	5.809	102.589	36.077	1.00	0.00	H
ATOM	9809	CA	PHE	1033	7.152	101.954	34.556	1.00	0.00	C
ATOM	9810	CB	PHE	1033	6.106	100.905	34.140	1.00	0.00	C
ATOM	9811	CG	PHE	1033	6.723	100.052	33.094	1.00	0.00	C
ATOM	9812	CD1	PHE	1033	7.903	99.402	33.367	1.00	0.00	C
ATOM	9813	CD2	PHE	1033	6.111	99.861	31.878	1.00	0.00	C
ATOM	9814	CE1	PHE	1033	8.498	98.597	32.426	1.00	0.00	C
ATOM	9815	CE2	PHE	1033	6.703	99.055	30.936	1.00	0.00	C
ATOM	9816	CZ	PHE	1033	7.896	98.426	31.203	1.00	0.00	C
ATOM	9817	C	PHE	1033	7.257	103.047	33.523	1.00	0.00	C
ATOM	9818	O	PHE	1033	6.697	104.125	33.706	1.00	0.00	O
ATOM	9819	N	ASP	1034	7.925	102.747	32.394	1.00	0.00	N
ATOM	9820	HN	ASP	1034	8.123	101.752	32.292	1.00	0.00	H
ATOM	9821	CA	ASP	1034	8.419	103.545	31.298	1.00	0.00	C
ATOM	9822	CB	ASP	1034	9.167	102.691	30.267	1.00	0.00	C
ATOM	9823	CG	ASP	1034	10.306	101.998	30.989	1.00	0.00	C
ATOM	9824	OD1	ASP	1034	10.860	102.610	31.937	1.00	0.00	O
ATOM	9825	OD2	ASP	1034	10.631	100.842	30.609	1.00	0.00	O
ATOM	9826	C	ASP	1034	7.385	104.297	30.513	1.00	0.00	C
ATOM	9827	O	ASP	1034	7.707	104.776	29.427	1.00	0.00	O
ATOM	9828	N	CYS	1035	6.104	104.297	30.908	1.00	0.00	N
ATOM	9829	HN	CYS	1035	5.807	103.764	31.725	1.00	0.00	H
ATOM	9830	CA	CYS	1035	5.159	105.073	30.144	1.00	0.00	C
ATOM	9831	CB	CYS	1035	3.700	104.854	30.578	1.00	0.00	C
ATOM	9832	SG	CYS	1035	3.156	103.129	30.401	1.00	0.00	S
ATOM	9833	C	CYS	1035	5.462	106.527	30.373	1.00	0.00	C
ATOM	9834	O	CYS	1035	6.258	106.881	31.241	1.00	0.00	O
ATOM	9835	N	SER	1036	4.859	107.421	29.561	1.00	0.00	N
ATOM	9836	HN	SER	1036	4.265	107.103	28.795	1.00	0.00	H
ATOM	9837	CA	SER	1036	5.063	108.821	29.787	1.00	0.00	C
ATOM	9838	CB	SER	1036	4.382	109.720	28.739	1.00	0.00	C
ATOM	9839	OG	SER	1036	2.973	109.551	28.787	1.00	0.00	O

ATOM	9840	HG	SER	1036	2.553	110.106	28.140	1.00	0.00	H
ATOM	9841	C	SER	1036	4.428	109.075	31.116	1.00	0.00	C
ATOM	9842	O	SER	1036	3.614	108.279	31.578	1.00	0.00	O
ATOM	9843	N	ILE	1037	4.781	110.190	31.775	1.00	0.00	N
ATOM	9844	HN	ILE	1037	5.423	110.853	31.340	1.00	0.00	H
ATOM	9845	CA	ILE	1037	4.263	110.457	33.084	1.00	0.00	C
ATOM	9846	CB	ILE	1037	4.740	111.754	33.649	1.00	0.00	C
ATOM	9847	CG1	ILE	1037	4.226	112.897	32.765	1.00	0.00	C
ATOM	9848	CG2	ILE	1037	6.272	111.694	33.790	1.00	0.00	C
ATOM	9849	CD1	ILE	1037	4.290	114.260	33.437	1.00	0.00	C
ATOM	9850	C	ILE	1037	2.774	110.549	32.982	1.00	0.00	C
ATOM	9851	O	ILE	1037	2.065	110.175	33.909	1.00	0.00	O
ATOM	9852	N	ALA	1038	2.250	111.071	31.858	1.00	0.00	N
ATOM	9853	HN	ALA	1038	2.866	111.364	31.099	1.00	0.00	H
ATOM	9854	CA	ALA	1038	0.829	111.217	31.722	1.00	0.00	C
ATOM	9855	CB	ALA	1038	0.418	111.764	30.346	1.00	0.00	C
ATOM	9856	C	ALA	1038	0.179	109.870	31.885	1.00	0.00	C
ATOM	9857	O	ALA	1038	-0.880	109.760	32.501	1.00	0.00	O
ATOM	9858	N	GLU	1039	0.776	108.814	31.298	1.00	0.00	N
ATOM	9859	HN	GLU	1039	1.623	108.976	30.753	1.00	0.00	H
ATOM	9860	CA	GLU	1039	0.275	107.467	31.404	1.00	0.00	C
ATOM	9861	CB	GLU	1039	1.048	106.498	30.498	1.00	0.00	C
ATOM	9862	CG	GLU	1039	0.947	106.841	29.012	1.00	0.00	C
ATOM	9863	CD	GLU	1039	-0.485	106.613	28.544	1.00	0.00	C
ATOM	9864	OE1	GLU	1039	-1.371	106.375	29.408	1.00	0.00	O
ATOM	9865	OE2	GLU	1039	-0.709	106.678	27.307	1.00	0.00	O
ATOM	9866	C	GLU	1039	0.471	106.975	32.806	1.00	0.00	C
ATOM	9867	O	GLU	1039	-0.420	106.377	33.410	1.00	0.00	O
ATOM	9868	N	ASN	1040	1.663	107.236	33.372	1.00	0.00	N
ATOM	9869	HN	ASN	1040	2.354	107.782	32.858	1.00	0.00	H
ATOM	9870	CA	ASN	1040	1.976	106.758	34.686	1.00	0.00	C
ATOM	9871	CB	ASN	1040	3.343	107.249	35.199	1.00	0.00	C
ATOM	9872	CG	ASN	1040	4.464	106.522	34.466	1.00	0.00	C
ATOM	9873	OD1	ASN	1040	5.644	106.778	34.704	1.00	0.00	O
ATOM	9874	ND2	ASN	1040	4.092	105.588	33.553	1.00	0.00	N
ATOM	9875	1HD2	ASN	1040	3.114	105.376	33.356	1.00	0.00	H
ATOM	9876	2HD2	ASN	1040	4.842	105.101	33.062	1.00	0.00	H
ATOM	9877	C	ASN	1040	0.959	107.330	35.602	1.00	0.00	C
ATOM	9878	O	ASN	1040	0.345	106.582	36.349	1.00	0.00	O
ATOM	9879	N	ILE	1041	0.687	108.644	35.501	1.00	0.00	N
ATOM	9880	HN	ILE	1041	1.182	109.188	34.794	1.00	0.00	H
ATOM	9881	CA	ILE	1041	-0.266	109.320	36.338	1.00	0.00	C
ATOM	9882	CB	ILE	1041	-0.662	110.671	35.795	1.00	0.00	C
ATOM	9883	CG1	ILE	1041	0.515	111.646	35.617	1.00	0.00	C
ATOM	9884	CG2	ILE	1041	-1.767	111.215	36.710	1.00	0.00	C
ATOM	9885	CD1	ILE	1041	1.158	112.133	36.906	1.00	0.00	C
ATOM	9886	C	ILE	1041	-1.519	108.518	36.180	1.00	0.00	C
ATOM	9887	O	ILE	1041	-2.154	108.105	37.145	1.00	0.00	O
ATOM	9888	N	ALA	1042	-1.775	108.149	34.919	1.00	0.00	N
ATOM	9889	HN	ALA	1042	-1.071	108.415	34.230	1.00	0.00	H
ATOM	9890	CA	ALA	1042	-2.901	107.432	34.406	1.00	0.00	C
ATOM	9891	CB	ALA	1042	-2.922	107.322	32.870	1.00	0.00	C
ATOM	9892	C	ALA	1042	-2.992	106.057	34.976	1.00	0.00	C
ATOM	9893	O	ALA	1042	-3.936	105.364	34.604	1.00	0.00	O
ATOM	9894	N	TYR	1043	-1.959	105.604	35.740	1.00	0.00	N
ATOM	9895	HN	TYR	1043	-1.236	106.285	35.972	1.00	0.00	H
ATOM	9896	CA	TYR	1043	-1.769	104.265	36.261	1.00	0.00	C
ATOM	9897	CB	TYR	1043	-1.259	104.123	37.714	1.00	0.00	C
ATOM	9898	CG	TYR	1043	0.218	104.243	37.751	1.00	0.00	C
ATOM	9899	CD1	TYR	1043	0.979	103.402	36.975	1.00	0.00	C
ATOM	9900	CD2	TYR	1043	0.836	105.135	38.596	1.00	0.00	C
ATOM	9901	CE1	TYR	1043	2.349	103.482	36.992	1.00	0.00	C
ATOM	9902	CE2	TYR	1043	2.207	105.221	38.613	1.00	0.00	C
ATOM	9903	CZ	TYR	1043	2.960	104.400	37.809	1.00	0.00	C
ATOM	9904	OH	TYR	1043	4.365	104.493	37.832	1.00	0.00	O
ATOM	9905	HH	TYR	1043	4.788	105.128	38.398	1.00	0.00	H
ATOM	9906	C	TYR	1043	-3.014	103.487	36.262	1.00	0.00	C
ATOM	9907	O	TYR	1043	-3.856	103.684	37.129	1.00	0.00	O
ATOM	9908	N	GLY	1044	-3.165	102.731	35.154	1.00	0.00	N
ATOM	9909	HN	GLY	1044	-2.484	102.945	34.425	1.00	0.00	H
ATOM	9910	CA	GLY	1044	-4.083	101.688	34.785	1.00	0.00	C
ATOM	9911	C	GLY	1044	-4.634	100.933	35.950	1.00	0.00	C
ATOM	9912	O	GLY	1044	-4.519	99.711	35.961	1.00	0.00	O
ATOM	9913	N	ASP	1045	-5.294	101.592	36.907	1.00	0.00	N

ATOM	9914	HN	ASP	1045	-5.492	102.582	36.765	1.00	0.00	H
ATOM	9915	CA	ASP	1045	-5.735	100.978	38.117	1.00	0.00	C
ATOM	9916	CB	ASP	1045	-6.622	101.938	38.917	1.00	0.00	C
ATOM	9917	CG	ASP	1045	-5.911	103.281	38.924	1.00	0.00	C
ATOM	9918	OD1	ASP	1045	-4.784	103.379	39.476	1.00	0.00	O
ATOM	9919	OD2	ASP	1045	-6.502	104.234	38.351	1.00	0.00	O
ATOM	9920	C	ASP	1045	-6.628	99.881	37.671	1.00	0.00	C
ATOM	9921	O	ASP	1045	-6.637	98.780	38.218	1.00	0.00	O
ATOM	9922	N	ASN	1046	-7.396	100.188	36.617	1.00	0.00	N
ATOM	9923	HN	ASN	1046	-7.324	101.116	36.201	1.00	0.00	H
ATOM	9924	CA	ASN	1046	-8.310	99.246	36.066	1.00	0.00	C
ATOM	9925	CB	ASN	1046	-9.476	98.919	37.021	1.00	0.00	C
ATOM	9926	CG	ASN	1046	-10.115	100.214	37.504	1.00	0.00	C
ATOM	9927	OD1	ASN	1046	-10.596	101.027	36.717	1.00	0.00	O
ATOM	9928	ND2	ASN	1046	-10.118	100.412	38.850	1.00	0.00	N
ATOM	9929	1HD2	ASN	1046	-9.719	99.738	39.503	1.00	0.00	H
ATOM	9930	2HD2	ASN	1046	-10.546	101.279	39.174	1.00	0.00	H
ATOM	9931	C	ASN	1046	-8.814	99.818	34.787	1.00	0.00	C
ATOM	9932	O	ASN	1046	-8.086	100.489	34.054	1.00	0.00	O
ATOM	9933	N	SER	1047	-10.109	99.600	34.504	1.00	0.00	N
ATOM	9934	HN	SER	1047	-10.682	99.097	35.182	1.00	0.00	H
ATOM	9935	CA	SER	1047	-10.717	100.047	33.285	1.00	0.00	C
ATOM	9936	CB	SER	1047	-12.194	99.635	33.165	1.00	0.00	C
ATOM	9937	OG	SER	1047	-12.733	100.108	31.941	1.00	0.00	O
ATOM	9938	HG	SER	1047	-13.645	99.854	31.867	1.00	0.00	H
ATOM	9939	C	SER	1047	-10.634	101.539	33.208	1.00	0.00	C
ATOM	9940	O	SER	1047	-10.940	102.115	32.163	1.00	0.00	O
ATOM	9941	N	ARG	1048	-10.213	102.193	34.314	1.00	0.00	N
ATOM	9942	HN	ARG	1048	-9.984	101.644	35.143	1.00	0.00	H
ATOM	9943	CA	ARG	1048	-10.071	103.618	34.383	1.00	0.00	C
ATOM	9944	CB	ARG	1048	-9.243	104.074	35.604	1.00	0.00	C
ATOM	9945	CG	ARG	1048	-9.927	103.819	36.947	1.00	0.00	C
ATOM	9946	CD	ARG	1048	-10.431	105.104	37.595	1.00	0.00	C
ATOM	9947	NE	ARG	1048	-10.369	106.163	36.550	1.00	0.00	N
ATOM	9948	HE	ARG	1048	-9.881	105.987	35.672	1.00	0.00	H
ATOM	9949	CZ	ARG	1048	-10.966	107.368	36.770	1.00	0.00	C
ATOM	9950	NH1	ARG	1048	-11.635	107.591	37.934	1.00	0.00	N
ATOM	9951	1HH1	ARG	1048	-12.082	108.493	38.099	1.00	0.00	H
ATOM	9952	2HH1	ARG	1048	-11.686	106.857	38.640	1.00	0.00	H
ATOM	9953	NH2	ARG	1048	-10.898	108.351	35.824	1.00	0.00	N
ATOM	9954	1HH2	ARG	1048	-11.345	109.253	35.989	1.00	0.00	H
ATOM	9955	2HH2	ARG	1048	-10.397	108.184	34.952	1.00	0.00	H
ATOM	9956	C	ARG	1048	-9.321	104.058	33.163	1.00	0.00	C
ATOM	9957	O	ARG	1048	-8.176	103.672	32.939	1.00	0.00	O
ATOM	9958	N	VAL	1049	-9.985	104.878	32.329	1.00	0.00	N
ATOM	9959	HN	VAL	1049	-10.933	105.164	32.575	1.00	0.00	H
ATOM	9960	CA	VAL	1049	-9.414	105.367	31.108	1.00	0.00	C
ATOM	9961	CB	VAL	1049	-10.440	105.881	30.142	1.00	0.00	C
ATOM	9962	CG1	VAL	1049	-11.160	107.059	30.813	1.00	0.00	C
ATOM	9963	CG2	VAL	1049	-9.759	106.248	28.811	1.00	0.00	C
ATOM	9964	C	VAL	1049	-8.529	106.505	31.476	1.00	0.00	C
ATOM	9965	O	VAL	1049	-8.698	107.094	32.542	1.00	0.00	O
ATOM	9966	N	VAL	1050	-7.544	106.825	30.613	1.00	0.00	N
ATOM	9967	HN	VAL	1050	-7.431	106.307	29.742	1.00	0.00	H
ATOM	9968	CA	VAL	1050	-6.660	107.902	30.938	1.00	0.00	C
ATOM	9969	CB	VAL	1050	-5.452	107.964	30.048	1.00	0.00	C
ATOM	9970	CG1	VAL	1050	-4.623	109.207	30.413	1.00	0.00	C
ATOM	9971	CG2	VAL	1050	-4.684	106.640	30.186	1.00	0.00	C
ATOM	9972	C	VAL	1050	-7.407	109.186	30.777	1.00	0.00	C
ATOM	9973	O	VAL	1050	-7.261	109.891	29.779	1.00	0.00	O
ATOM	9974	N	SER	1051	-8.209	109.543	31.800	1.00	0.00	N
ATOM	9975	HN	SER	1051	-8.278	108.941	32.621	1.00	0.00	H
ATOM	9976	CA	SER	1051	-8.966	110.758	31.747	1.00	0.00	C
ATOM	9977	CB	SER	1051	-9.942	110.904	32.928	1.00	0.00	C
ATOM	9978	OG	SER	1051	-10.668	112.120	32.831	1.00	0.00	O
ATOM	9979	HG	SER	1051	-11.270	112.210	33.560	1.00	0.00	H
ATOM	9980	C	SER	1051	-7.985	111.885	31.805	1.00	0.00	C
ATOM	9981	O	SER	1051	-7.291	112.075	32.799	1.00	0.00	O
ATOM	9982	N	GLN	1052	-7.929	112.701	30.743	1.00	0.00	N
ATOM	9983	HN	GLN	1052	-8.588	112.593	29.972	1.00	0.00	H
ATOM	9984	CA	GLN	1052	-6.929	113.729	30.705	1.00	0.00	C
ATOM	9985	CB	GLN	1052	-7.023	114.582	29.430	1.00	0.00	C
ATOM	9986	CG	GLN	1052	-6.006	115.723	29.372	1.00	0.00	C
ATOM	9987	CD	GLN	1052	-6.283	116.530	28.111	1.00	0.00	C

ATOM	9988	OE1	GLN	1052	-7.425	116.638	27.666	1.00	0.00	O
ATOM	9989	NE2	GLN	1052	-5.209	117.118	27.517	1.00	0.00	N
ATOM	9990	1HE2	GLN	1052	-5.395	117.659	26.672	1.00	0.00	H
ATOM	9991	2HE2	GLN	1052	-4.262	117.028	27.886	1.00	0.00	H
ATOM	9992	C	GLN	1052	-7.120	114.672	31.845	1.00	0.00	C
ATOM	9993	O	GLN	1052	-6.205	114.891	32.636	1.00	0.00	O
ATOM	9994	N	GLU	1053	-8.346	115.191	32.010	1.00	0.00	N
ATOM	9995	HN	GLU	1053	-9.112	114.872	31.417	1.00	0.00	H
ATOM	9996	CA	GLU	1053	-8.592	116.187	33.009	1.00	0.00	C
ATOM	9997	CB	GLU	1053	-10.074	116.570	33.100	1.00	0.00	C
ATOM	9998	CG	GLU	1053	-10.679	116.922	31.748	1.00	0.00	C
ATOM	9999	CD	GLU	1053	-11.105	115.603	31.121	1.00	0.00	C
ATOM	10000	OE1	GLU	1053	-12.196	115.102	31.506	1.00	0.00	O
ATOM	10001	OE2	GLU	1053	-10.351	115.071	30.264	1.00	0.00	O
ATOM	10002	C	GLU	1053	-8.269	115.541	34.302	1.00	0.00	C
ATOM	10003	O	GLU	1053	-7.791	116.180	35.238	1.00	0.00	O
ATOM	10004	N	GLU	1054	-8.552	114.234	34.403	1.00	0.00	N
ATOM	10005	HN	GLU	1054	-8.953	113.697	33.634	1.00	0.00	H
ATOM	10006	CA	GLU	1054	-8.249	113.656	35.668	1.00	0.00	C
ATOM	10007	CB	GLU	1054	-8.766	112.226	35.915	1.00	0.00	C
ATOM	10008	CG	GLU	1054	-7.969	111.103	35.260	1.00	0.00	C
ATOM	10009	CD	GLU	1054	-8.133	109.881	36.148	1.00	0.00	C
ATOM	10010	OE1	GLU	1054	-8.628	110.060	37.292	1.00	0.00	O
ATOM	10011	OE2	GLU	1054	-7.748	108.766	35.707	1.00	0.00	O
ATOM	10012	C	GLU	1054	-6.762	113.639	35.877	1.00	0.00	C
ATOM	10013	O	GLU	1054	-6.289	114.050	36.932	1.00	0.00	O
ATOM	10014	N	ILE	1055	-5.968	113.232	34.863	1.00	0.00	N
ATOM	10015	HN	ILE	1055	-6.374	112.995	33.958	1.00	0.00	H
ATOM	10016	CA	ILE	1055	-4.546	113.135	35.066	1.00	0.00	C
ATOM	10017	CB	ILE	1055	-3.757	112.644	33.877	1.00	0.00	C
ATOM	10018	CG1	ILE	1055	-3.781	113.644	32.712	1.00	0.00	C
ATOM	10019	CG2	ILE	1055	-4.302	111.255	33.509	1.00	0.00	C
ATOM	10020	CD1	ILE	1055	-2.816	113.302	31.578	1.00	0.00	C
ATOM	10021	C	ILE	1055	-4.050	114.499	35.431	1.00	0.00	C
ATOM	10022	O	ILE	1055	-3.071	114.630	36.166	1.00	0.00	O
ATOM	10023	N	VAL	1056	-4.666	115.555	34.861	1.00	0.00	N
ATOM	10024	HN	VAL	1056	-5.398	115.412	34.165	1.00	0.00	H
ATOM	10025	CA	VAL	1056	-4.278	116.883	35.246	1.00	0.00	C
ATOM	10026	CB	VAL	1056	-4.676	118.011	34.324	1.00	0.00	C
ATOM	10027	CG1	VAL	1056	-3.918	117.833	33.005	1.00	0.00	C
ATOM	10028	CG2	VAL	1056	-6.190	118.102	34.154	1.00	0.00	C
ATOM	10029	C	VAL	1056	-4.712	117.184	36.647	1.00	0.00	C
ATOM	10030	O	VAL	1056	-3.998	117.870	37.377	1.00	0.00	O
ATOM	10031	N	ARG	1057	-5.888	116.689	37.083	1.00	0.00	N
ATOM	10032	HN	ARG	1057	-6.482	116.114	36.486	1.00	0.00	H
ATOM	10033	CA	ARG	1057	-6.260	117.012	38.429	1.00	0.00	C
ATOM	10034	CB	ARG	1057	-7.692	116.596	38.832	1.00	0.00	C
ATOM	10035	CG	ARG	1057	-8.027	115.111	38.747	1.00	0.00	C
ATOM	10036	CD	ARG	1057	-9.529	114.833	38.794	1.00	0.00	C
ATOM	10037	NE	ARG	1057	-10.166	115.571	37.665	1.00	0.00	N
ATOM	10038	HE	ARG	1057	-9.950	116.556	37.511	1.00	0.00	H
ATOM	10039	CZ	ARG	1057	-11.040	114.924	36.837	1.00	0.00	C
ATOM	10040	NH1	ARG	1057	-11.237	113.580	36.973	1.00	0.00	N
ATOM	10041	1HH1	ARG	1057	-11.889	113.097	36.355	1.00	0.00	H
ATOM	10042	2HH1	ARG	1057	-10.733	113.062	37.692	1.00	0.00	H
ATOM	10043	NH2	ARG	1057	-11.715	115.618	35.874	1.00	0.00	N
ATOM	10044	1HH2	ARG	1057	-12.367	115.135	35.256	1.00	0.00	H
ATOM	10045	2HH2	ARG	1057	-11.568	116.622	35.772	1.00	0.00	H
ATOM	10046	C	ARG	1057	-5.239	116.411	39.342	1.00	0.00	C
ATOM	10047	O	ARG	1057	-4.869	117.021	40.345	1.00	0.00	O
ATOM	10048	N	ALA	1058	-4.743	115.196	39.024	1.00	0.00	N
ATOM	10049	HN	ALA	1058	-5.073	114.695	38.199	1.00	0.00	H
ATOM	10050	CA	ALA	1058	-3.739	114.628	39.877	1.00	0.00	C
ATOM	10051	CB	ALA	1058	-3.238	113.247	39.451	1.00	0.00	C
ATOM	10052	C	ALA	1058	-2.534	115.494	39.847	1.00	0.00	C
ATOM	10053	O	ALA	1058	-2.099	115.937	40.892	1.00	0.00	O
ATOM	10054	N	ALA	1059	-2.028	115.864	38.659	1.00	0.00	N
ATOM	10055	HN	ALA	1059	-2.519	115.593	37.807	1.00	0.00	H
ATOM	10056	CA	ALA	1059	-0.815	116.630	38.551	1.00	0.00	C
ATOM	10057	CB	ALA	1059	-0.500	117.045	37.103	1.00	0.00	C
ATOM	10058	C	ALA	1059	-1.012	117.881	39.340	1.00	0.00	C
ATOM	10059	O	ALA	1059	-0.069	118.438	39.904	1.00	0.00	O
ATOM	10060	N	LYS	1060	-2.263	118.365	39.373	1.00	0.00	N
ATOM	10061	HN	LYS	1060	-3.018	117.866	38.903	1.00	0.00	H

ATOM	10062	CA	LYS	1060	-2.532	119.581	40.069	1.00	0.00	C
ATOM	10063	CB	LYS	1060	-4.003	119.978	39.871	1.00	0.00	C
ATOM	10064	CG	LYS	1060	-4.223	121.484	39.797	1.00	0.00	C
ATOM	10065	CD	LYS	1060	-3.687	122.098	38.498	1.00	0.00	C
ATOM	10066	CE	LYS	1060	-4.582	121.849	37.279	1.00	0.00	C
ATOM	10067	NZ	LYS	1060	-5.815	122.665	37.376	1.00	0.00	N
ATOM	10068	HZ1	LYS	1060	-6.411	122.499	36.565	1.00	0.00	H
ATOM	10069	HZ2	LYS	1060	-5.608	123.656	37.501	1.00	0.00	H
ATOM	10070	HZ3	LYS	1060	-6.311	122.504	38.253	1.00	0.00	H
ATOM	10071	C	LYS	1060	-2.256	119.418	41.549	1.00	0.00	C
ATOM	10072	O	LYS	1060	-1.304	119.990	42.076	1.00	0.00	O
ATOM	10073	N	GLU	1061	-3.017	118.545	42.243	1.00	0.00	N
ATOM	10074	HN	GLU	1061	-3.705	117.985	41.739	1.00	0.00	H
ATOM	10075	CA	GLU	1061	-2.894	118.374	43.671	1.00	0.00	C
ATOM	10076	CB	GLU	1061	-3.995	117.491	44.273	1.00	0.00	C
ATOM	10077	CG	GLU	1061	-3.876	117.374	45.793	1.00	0.00	C
ATOM	10078	CD	GLU	1061	-4.222	118.723	46.409	1.00	0.00	C
ATOM	10079	OE1	GLU	1061	-5.356	119.218	46.163	1.00	0.00	O
ATOM	10080	OE2	GLU	1061	-3.359	119.277	47.141	1.00	0.00	O
ATOM	10081	C	GLU	1061	-1.581	117.733	43.969	1.00	0.00	C
ATOM	10082	O	GLU	1061	-1.032	117.851	45.062	1.00	0.00	O
ATOM	10083	N	ALA	1062	-1.082	116.977	42.991	1.00	0.00	N
ATOM	10084	HN	ALA	1062	-1.618	116.909	42.126	1.00	0.00	H
ATOM	10085	CA	ALA	1062	0.145	116.258	43.066	1.00	0.00	C
ATOM	10086	CB	ALA	1062	0.469	115.479	41.780	1.00	0.00	C
ATOM	10087	C	ALA	1062	1.217	117.277	43.256	1.00	0.00	C
ATOM	10088	O	ALA	1062	2.124	117.088	44.062	1.00	0.00	O
ATOM	10089	N	ASN	1063	1.088	118.422	42.558	1.00	0.00	N
ATOM	10090	HN	ASN	1063	0.260	118.550	41.977	1.00	0.00	H
ATOM	10091	CA	ASN	1063	2.070	119.469	42.600	1.00	0.00	C
ATOM	10092	CB	ASN	1063	2.554	119.800	44.024	1.00	0.00	C
ATOM	10093	CG	ASN	1063	1.400	120.424	44.799	1.00	0.00	C
ATOM	10094	OD1	ASN	1063	1.468	120.582	46.017	1.00	0.00	O
ATOM	10095	ND2	ASN	1063	0.305	120.782	44.078	1.00	0.00	N
ATOM	10096	1HD2	ASN	1063	-0.468	121.200	44.597	1.00	0.00	H
ATOM	10097	2HD2	ASN	1063	0.249	120.651	43.068	1.00	0.00	H
ATOM	10098	C	ASN	1063	3.266	119.041	41.807	1.00	0.00	C
ATOM	10099	O	ASN	1063	4.369	119.556	41.981	1.00	0.00	O
ATOM	10100	N	ILE	1064	3.066	118.025	40.959	1.00	0.00	N
ATOM	10101	HN	ILE	1064	2.162	117.555	41.009	1.00	0.00	H
ATOM	10102	CA	ILE	1064	3.998	117.533	39.987	1.00	0.00	C
ATOM	10103	CB	ILE	1064	3.611	116.171	39.488	1.00	0.00	C
ATOM	10104	CG1	ILE	1064	4.836	115.382	38.984	1.00	0.00	C
ATOM	10105	CG2	ILE	1064	2.481	116.348	38.463	1.00	0.00	C
ATOM	10106	CD1	ILE	1064	5.668	116.043	37.891	1.00	0.00	C
ATOM	10107	C	ILE	1064	3.939	118.513	38.853	1.00	0.00	C
ATOM	10108	O	ILE	1064	4.847	118.643	38.033	1.00	0.00	O
ATOM	10109	N	HIS	1065	2.799	119.222	38.785	1.00	0.00	N
ATOM	10110	HN	HIS	1065	2.142	119.131	39.560	1.00	0.00	H
ATOM	10111	CA	HIS	1065	2.436	120.094	37.710	1.00	0.00	C
ATOM	10112	ND1	HIS	1065	1.112	122.340	35.881	1.00	0.00	N
ATOM	10113	HD1	HIS	1065	2.035	122.760	35.991	1.00	0.00	H
ATOM	10114	CG	HIS	1065	0.516	121.432	36.728	1.00	0.00	C
ATOM	10115	CB	HIS	1065	1.145	120.891	37.981	1.00	0.00	C
ATOM	10116	NE2	HIS	1065	-0.881	121.873	35.009	1.00	0.00	N
ATOM	10117	HE2	HIS	1065	-1.692	121.865	34.391	1.00	0.00	H
ATOM	10118	CD2	HIS	1065	-0.701	121.159	36.180	1.00	0.00	C
ATOM	10119	CE1	HIS	1065	0.234	122.568	34.871	1.00	0.00	C
ATOM	10120	C	HIS	1065	3.539	121.083	37.492	1.00	0.00	C
ATOM	10121	O	HIS	1065	3.688	121.587	36.381	1.00	0.00	O
ATOM	10122	N	ALA	1066	4.343	121.388	38.533	1.00	0.00	N
ATOM	10123	HN	ALA	1066	4.199	120.934	39.435	1.00	0.00	H
ATOM	10124	CA	ALA	1066	5.401	122.349	38.379	1.00	0.00	C
ATOM	10125	CB	ALA	1066	6.296	122.464	39.625	1.00	0.00	C
ATOM	10126	C	ALA	1066	6.262	121.891	37.236	1.00	0.00	C
ATOM	10127	O	ALA	1066	6.717	122.708	36.439	1.00	0.00	O
ATOM	10128	N	PHE	1067	6.534	120.575	37.146	1.00	0.00	N
ATOM	10129	HN	PHE	1067	6.231	119.957	37.899	1.00	0.00	H
ATOM	10130	CA	PHE	1067	7.237	120.010	36.024	1.00	0.00	C
ATOM	10131	CB	PHE	1067	7.719	118.565	36.238	1.00	0.00	C
ATOM	10132	CG	PHE	1067	8.941	118.600	37.084	1.00	0.00	C
ATOM	10133	CD1	PHE	1067	8.850	118.799	38.440	1.00	0.00	C
ATOM	10134	CD2	PHE	1067	10.180	118.418	36.515	1.00	0.00	C
ATOM	10135	CE1	PHE	1067	9.983	118.826	39.219	1.00	0.00	C

ATOM	10136	CE2	PHE	1067	11.317	118.444	37.287	1.00	0.00	C
ATOM	10137	CZ	PHE	1067	11.218	118.649	38.642	1.00	0.00	C
ATOM	10138	C	PHE	1067	6.340	119.987	34.825	1.00	0.00	C
ATOM	10139	O	PHE	1067	6.789	120.142	33.692	1.00	0.00	O
ATOM	10140	N	ILE	1068	5.036	119.751	35.050	1.00	0.00	N
ATOM	10141	HN	ILE	1068	4.711	119.692	36.015	1.00	0.00	H
ATOM	10142	CA	ILE	1068	4.081	119.579	33.992	1.00	0.00	C
ATOM	10143	CB	ILE	1068	2.713	119.278	34.519	1.00	0.00	C
ATOM	10144	CG1	ILE	1068	2.747	117.986	35.342	1.00	0.00	C
ATOM	10145	CG2	ILE	1068	1.739	119.255	33.331	1.00	0.00	C
ATOM	10146	CD1	ILE	1068	3.327	116.806	34.574	1.00	0.00	C
ATOM	10147	C	ILE	1068	3.941	120.815	33.164	1.00	0.00	C
ATOM	10148	O	ILE	1068	3.871	120.740	31.939	1.00	0.00	O
ATOM	10149	N	GLU	1069	3.868	121.993	33.799	1.00	0.00	N
ATOM	10150	HN	GLU	1069	3.992	122.055	34.810	1.00	0.00	H
ATOM	10151	CA	GLU	1069	3.611	123.159	33.013	1.00	0.00	C
ATOM	10152	CB	GLU	1069	3.400	124.399	33.896	1.00	0.00	C
ATOM	10153	CG	GLU	1069	4.544	124.656	34.875	1.00	0.00	C
ATOM	10154	CD	GLU	1069	4.077	125.723	35.852	1.00	0.00	C
ATOM	10155	OE1	GLU	1069	3.004	125.515	36.478	1.00	0.00	O
ATOM	10156	OE2	GLU	1069	4.786	126.755	35.991	1.00	0.00	O
ATOM	10157	C	GLU	1069	4.709	123.424	32.014	1.00	0.00	C
ATOM	10158	O	GLU	1069	4.426	123.554	30.825	1.00	0.00	O
ATOM	10159	N	SER	1070	5.979	123.550	32.461	1.00	0.00	N
ATOM	10160	HN	SER	1070	6.165	123.435	33.457	1.00	0.00	H
ATOM	10161	CA	SER	1070	7.080	123.842	31.575	1.00	0.00	C
ATOM	10162	CB	SER	1070	8.277	124.457	32.320	1.00	0.00	C
ATOM	10163	OG	SER	1070	7.887	125.667	32.949	1.00	0.00	O
ATOM	10164	HG	SER	1070	8.626	126.047	33.409	1.00	0.00	H
ATOM	10165	C	SER	1070	7.613	122.654	30.840	1.00	0.00	C
ATOM	10166	O	SER	1070	7.242	122.386	29.696	1.00	0.00	O
ATOM	10167	N	LEU	1071	8.448	121.893	31.590	1.00	0.00	N
ATOM	10168	HN	LEU	1071	8.481	122.153	32.576	1.00	0.00	H
ATOM	10169	CA	LEU	1071	9.296	120.783	31.240	1.00	0.00	C
ATOM	10170	CB	LEU	1071	9.191	119.665	32.292	1.00	0.00	C
ATOM	10171	CG	LEU	1071	10.267	118.575	32.200	1.00	0.00	C
ATOM	10172	CD1	LEU	1071	10.172	117.772	30.895	1.00	0.00	C
ATOM	10173	CD2	LEU	1071	11.652	119.186	32.443	1.00	0.00	C
ATOM	10174	C	LEU	1071	8.892	120.252	29.904	1.00	0.00	C
ATOM	10175	O	LEU	1071	7.738	119.891	29.678	1.00	0.00	O
ATOM	10176	N	PRO	1072	9.855	120.194	29.022	1.00	0.00	N
ATOM	10177	CA	PRO	1072	9.654	119.885	27.636	1.00	0.00	C
ATOM	10178	CD	PRO	1072	11.249	120.406	29.363	1.00	0.00	C
ATOM	10179	CB	PRO	1072	11.053	119.744	27.038	1.00	0.00	C
ATOM	10180	CG	PRO	1072	11.958	120.534	28.005	1.00	0.00	C
ATOM	10181	C	PRO	1072	8.810	118.670	27.469	1.00	0.00	C
ATOM	10182	O	PRO	1072	8.916	117.753	28.277	1.00	0.00	O
ATOM	10183	N	ASN	1073	7.928	118.690	26.453	1.00	0.00	N
ATOM	10184	HN	ASN	1073	7.895	119.527	25.871	1.00	0.00	H
ATOM	10185	CA	ASN	1073	7.031	117.620	26.129	1.00	0.00	C
ATOM	10186	CB	ASN	1073	7.726	116.272	25.846	1.00	0.00	C
ATOM	10187	CG	ASN	1073	8.142	116.248	24.380	1.00	0.00	C
ATOM	10188	OD1	ASN	1073	7.298	116.229	23.485	1.00	0.00	O
ATOM	10189	ND2	ASN	1073	9.477	116.243	24.121	1.00	0.00	N
ATOM	10190	1HD2	ASN	1073	9.755	116.227	23.140	1.00	0.00	H
ATOM	10191	2HD2	ASN	1073	10.177	116.259	24.863	1.00	0.00	H
ATOM	10192	C	ASN	1073	6.039	117.429	27.227	1.00	0.00	C
ATOM	10193	O	ASN	1073	5.136	116.606	27.087	1.00	0.00	O
ATOM	10194	N	LYS	1074	6.140	118.236	28.305	1.00	0.00	N
ATOM	10195	HN	LYS	1074	6.918	118.894	28.352	1.00	0.00	H
ATOM	10196	CA	LYS	1074	5.196	118.206	29.390	1.00	0.00	C
ATOM	10197	CB	LYS	1074	3.915	118.982	29.055	1.00	0.00	C
ATOM	10198	CG	LYS	1074	4.227	120.450	28.769	1.00	0.00	C
ATOM	10199	CD	LYS	1074	3.066	121.238	28.171	1.00	0.00	C
ATOM	10200	CE	LYS	1074	3.449	122.670	27.796	1.00	0.00	C
ATOM	10201	NZ	LYS	1074	2.240	123.427	27.408	1.00	0.00	N
ATOM	10202	HZ1	LYS	1074	2.495	124.382	27.158	1.00	0.00	H
ATOM	10203	HZ2	LYS	1074	1.522	123.399	28.132	1.00	0.00	H
ATOM	10204	HZ3	LYS	1074	1.719	122.962	26.664	1.00	0.00	H
ATOM	10205	C	LYS	1074	4.846	116.795	29.781	1.00	0.00	C
ATOM	10206	O	LYS	1074	5.717	115.938	29.930	1.00	0.00	O
ATOM	10207	N	TYR	1075	3.531	116.515	29.901	1.00	0.00	N
ATOM	10208	HN	TYR	1075	2.855	117.243	29.667	1.00	0.00	H
ATOM	10209	CA	TYR	1075	3.037	115.235	30.344	1.00	0.00	C

ATOM	10210	CB	TYR	1075	1.502	115.048	30.287	1.00	0.00	C
ATOM	10211	CG	TYR	1075	0.776	115.888	31.287	1.00	0.00	C
ATOM	10212	CD1	TYR	1075	0.801	115.568	32.627	1.00	0.00	C
ATOM	10213	CD2	TYR	1075	0.072	117.002	30.887	1.00	0.00	C
ATOM	10214	CE1	TYR	1075	0.128	116.340	33.546	1.00	0.00	C
ATOM	10215	CE2	TYR	1075	-0.605	117.776	31.800	1.00	0.00	C
ATOM	10216	CZ	TYR	1075	-0.579	117.445	33.133	1.00	0.00	C
ATOM	10217	OH	TYR	1075	-1.271	118.238	34.074	1.00	0.00	O
ATOM	10218	HH	TYR	1075	-1.253	118.009	34.996	1.00	0.00	H
ATOM	10219	C	TYR	1075	3.579	114.163	29.451	1.00	0.00	C
ATOM	10220	O	TYR	1075	3.840	113.047	29.902	1.00	0.00	O
ATOM	10221	N	SER	1076	3.738	114.470	28.153	1.00	0.00	N
ATOM	10222	HN	SER	1076	3.557	115.426	27.845	1.00	0.00	H
ATOM	10223	CA	SER	1076	4.155	113.495	27.185	1.00	0.00	C
ATOM	10224	CB	SER	1076	4.239	114.064	25.760	1.00	0.00	C
ATOM	10225	OG	SER	1076	2.941	114.413	25.304	1.00	0.00	O
ATOM	10226	HG	SER	1076	2.993	114.765	24.423	1.00	0.00	H
ATOM	10227	C	SER	1076	5.510	112.961	27.526	1.00	0.00	C
ATOM	10228	O	SER	1076	5.867	111.871	27.079	1.00	0.00	O
ATOM	10229	N	THR	1077	6.303	113.701	28.326	1.00	0.00	N
ATOM	10230	HN	THR	1077	5.966	114.583	28.711	1.00	0.00	H
ATOM	10231	CA	THR	1077	7.627	113.235	28.631	1.00	0.00	C
ATOM	10232	CB	THR	1077	8.346	114.074	29.633	1.00	0.00	C
ATOM	10233	OG1	THR	1077	8.420	115.409	29.174	1.00	0.00	O
ATOM	10234	HG1	THR	1077	7.546	115.763	29.057	1.00	0.00	H
ATOM	10235	CG2	THR	1077	9.760	113.501	29.822	1.00	0.00	C
ATOM	10236	C	THR	1077	7.540	111.885	29.246	1.00	0.00	C
ATOM	10237	O	THR	1077	6.929	111.686	30.294	1.00	0.00	O
ATOM	10238	N	LYS	1078	8.188	110.906	28.600	1.00	0.00	N
ATOM	10239	HN	LYS	1078	8.694	111.094	27.735	1.00	0.00	H
ATOM	10240	CA	LYS	1078	8.149	109.594	29.158	1.00	0.00	C
ATOM	10241	CB	LYS	1078	8.684	108.478	28.237	1.00	0.00	C
ATOM	10242	CG	LYS	1078	10.195	108.498	28.004	1.00	0.00	C
ATOM	10243	CD	LYS	1078	10.719	107.234	27.312	1.00	0.00	C
ATOM	10244	CE	LYS	1078	10.341	105.933	28.027	1.00	0.00	C
ATOM	10245	NZ	LYS	1078	10.978	104.780	27.354	1.00	0.00	N
ATOM	10246	HZ1	LYS	1078	10.726	103.914	27.830	1.00	0.00	H
ATOM	10247	HZ2	LYS	1078	11.989	104.894	27.277	1.00	0.00	H
ATOM	10248	HZ3	LYS	1078	10.755	104.748	26.359	1.00	0.00	H
ATOM	10249	C	LYS	1078	8.993	109.655	30.378	1.00	0.00	C
ATOM	10250	O	LYS	1078	9.741	110.606	30.592	1.00	0.00	O
ATOM	10251	N	VAL	1079	8.903	108.618	31.216	1.00	0.00	N
ATOM	10252	HN	VAL	1079	8.277	107.846	30.986	1.00	0.00	H
ATOM	10253	CA	VAL	1079	9.659	108.564	32.422	1.00	0.00	C
ATOM	10254	CB	VAL	1079	9.376	107.301	33.183	1.00	0.00	C
ATOM	10255	CG1	VAL	1079	9.582	106.088	32.271	1.00	0.00	C
ATOM	10256	CG2	VAL	1079	10.253	107.286	34.431	1.00	0.00	C
ATOM	10257	C	VAL	1079	11.098	108.690	32.019	1.00	0.00	C
ATOM	10258	O	VAL	1079	11.935	109.128	32.806	1.00	0.00	O
ATOM	10259	N	GLY	1080	11.426	108.302	30.769	1.00	0.00	N
ATOM	10260	HN	GLY	1080	10.731	107.836	30.185	1.00	0.00	H
ATOM	10261	CA	GLY	1080	12.742	108.539	30.255	1.00	0.00	C
ATOM	10262	C	GLY	1080	13.750	107.612	30.848	1.00	0.00	C
ATOM	10263	O	GLY	1080	14.379	107.921	31.856	1.00	0.00	O
ATOM	10264	N	ASP	1081	13.944	106.450	30.194	1.00	0.00	N
ATOM	10265	HN	ASP	1081	13.378	106.245	29.371	1.00	0.00	H
ATOM	10266	CA	ASP	1081	14.922	105.495	30.622	1.00	0.00	C
ATOM	10267	CB	ASP	1081	16.338	106.099	30.665	1.00	0.00	C
ATOM	10268	CG	ASP	1081	17.358	104.969	30.724	1.00	0.00	C
ATOM	10269	OD1	ASP	1081	16.956	103.818	31.039	1.00	0.00	O
ATOM	10270	OD2	ASP	1081	18.555	105.243	30.443	1.00	0.00	O
ATOM	10271	C	ASP	1081	14.569	104.980	31.979	1.00	0.00	C
ATOM	10272	O	ASP	1081	15.418	104.846	32.858	1.00	0.00	O
ATOM	10273	N	LYS	1082	13.280	104.644	32.150	1.00	0.00	N
ATOM	10274	HN	LYS	1082	12.646	104.826	31.372	1.00	0.00	H
ATOM	10275	CA	LYS	1082	12.714	104.053	33.328	1.00	0.00	C
ATOM	10276	CB	LYS	1082	13.179	102.622	33.685	1.00	0.00	C
ATOM	10277	CG	LYS	1082	14.636	102.262	33.397	1.00	0.00	C
ATOM	10278	CD	LYS	1082	14.904	102.070	31.905	1.00	0.00	C
ATOM	10279	CE	LYS	1082	14.046	100.972	31.283	1.00	0.00	C
ATOM	10280	NZ	LYS	1082	13.618	101.379	29.925	1.00	0.00	N
ATOM	10281	HZ1	LYS	1082	13.044	100.645	29.509	1.00	0.00	H
ATOM	10282	HZ2	LYS	1082	14.409	101.629	29.332	1.00	0.00	H
ATOM	10283	HZ3	LYS	1082	13.143	102.282	29.927	1.00	0.00	H

ATOM	10284	C	LYS	1082	12.822	104.919	34.535	1.00	0.00	C
ATOM	10285	O	LYS	1082	12.640	104.426	35.648	1.00	0.00	O
ATOM	10286	N	GLY	1083	13.022	106.241	34.358	1.00	0.00	N
ATOM	10287	HN	GLY	1083	13.205	106.630	33.433	1.00	0.00	H
ATOM	10288	CA	GLY	1083	12.968	107.079	35.520	1.00	0.00	C
ATOM	10289	C	GLY	1083	14.085	108.069	35.630	1.00	0.00	C
ATOM	10290	O	GLY	1083	13.794	109.260	35.698	1.00	0.00	O
ATOM	10291	N	THR	1084	15.361	107.634	35.588	1.00	0.00	N
ATOM	10292	HN	THR	1084	15.531	106.658	35.347	1.00	0.00	H
ATOM	10293	CA	THR	1084	16.496	108.476	35.866	1.00	0.00	C
ATOM	10294	CB	THR	1084	17.791	107.821	35.468	1.00	0.00	C
ATOM	10295	OG1	THR	1084	17.811	107.554	34.071	1.00	0.00	O
ATOM	10296	HG1	THR	1084	17.730	108.371	33.593	1.00	0.00	H
ATOM	10297	CG2	THR	1084	17.922	106.501	36.241	1.00	0.00	C
ATOM	10298	C	THR	1084	16.420	109.794	35.152	1.00	0.00	C
ATOM	10299	O	THR	1084	16.827	109.929	33.999	1.00	0.00	O
ATOM	10300	N	GLN	1085	15.888	110.821	35.845	1.00	0.00	N
ATOM	10301	HN	GLN	1085	15.490	110.662	36.770	1.00	0.00	H
ATOM	10302	CA	GLN	1085	15.884	112.134	35.278	1.00	0.00	C
ATOM	10303	CB	GLN	1085	15.273	112.218	33.873	1.00	0.00	C
ATOM	10304	CG	GLN	1085	13.775	111.927	33.827	1.00	0.00	C
ATOM	10305	CD	GLN	1085	13.298	112.423	32.474	1.00	0.00	C
ATOM	10306	OE1	GLN	1085	14.103	112.825	31.635	1.00	0.00	O
ATOM	10307	NE2	GLN	1085	11.956	112.411	32.255	1.00	0.00	N
ATOM	10308	1HE2	GLN	1085	11.289	112.078	32.951	1.00	0.00	H
ATOM	10309	2HE2	GLN	1085	11.635	112.744	31.346	1.00	0.00	H
ATOM	10310	C	GLN	1085	15.049	113.013	36.150	1.00	0.00	C
ATOM	10311	O	GLN	1085	14.703	114.126	35.756	1.00	0.00	O
ATOM	10312	N	LEU	1086	14.686	112.539	37.358	1.00	0.00	N
ATOM	10313	HN	LEU	1086	14.978	111.608	37.654	1.00	0.00	H
ATOM	10314	CA	LEU	1086	13.886	113.355	38.224	1.00	0.00	C
ATOM	10315	CB	LEU	1086	12.375	113.241	37.962	1.00	0.00	C
ATOM	10316	CG	LEU	1086	11.902	113.911	36.661	1.00	0.00	C
ATOM	10317	CD1	LEU	1086	10.387	113.742	36.488	1.00	0.00	C
ATOM	10318	CD2	LEU	1086	12.315	115.390	36.614	1.00	0.00	C
ATOM	10319	C	LEU	1086	14.116	112.942	39.645	1.00	0.00	C
ATOM	10320	O	LEU	1086	14.221	111.756	39.957	1.00	0.00	O
ATOM	10321	N	SER	1087	14.164	113.936	40.554	1.00	0.00	N
ATOM	10322	HN	SER	1087	14.029	114.900	40.248	1.00	0.00	H
ATOM	10323	CA	SER	1087	14.400	113.668	41.939	1.00	0.00	C
ATOM	10324	CB	SER	1087	14.641	114.932	42.782	1.00	0.00	C
ATOM	10325	OG	SER	1087	14.864	114.579	44.139	1.00	0.00	O
ATOM	10326	HG	SER	1087	15.013	115.360	44.660	1.00	0.00	H
ATOM	10327	C	SER	1087	13.207	112.959	42.483	1.00	0.00	C
ATOM	10328	O	SER	1087	12.122	112.989	41.906	1.00	0.00	O
ATOM	10329	N	GLY	1088	13.404	112.289	43.629	1.00	0.00	N
ATOM	10330	HN	GLY	1088	14.322	112.338	44.071	1.00	0.00	H
ATOM	10331	CA	GLY	1088	12.381	111.509	44.257	1.00	0.00	C
ATOM	10332	C	GLY	1088	11.253	112.411	44.640	1.00	0.00	C
ATOM	10333	O	GLY	1088	10.100	111.981	44.670	1.00	0.00	O
ATOM	10334	N	GLY	1089	11.558	113.681	44.979	1.00	0.00	N
ATOM	10335	HN	GLY	1089	12.518	114.019	44.916	1.00	0.00	H
ATOM	10336	CA	GLY	1089	10.508	114.545	45.429	1.00	0.00	C
ATOM	10337	C	GLY	1089	9.461	114.645	44.366	1.00	0.00	C
ATOM	10338	O	GLY	1089	8.281	114.431	44.635	1.00	0.00	O
ATOM	10339	N	GLN	1090	9.862	114.938	43.116	1.00	0.00	N
ATOM	10340	HN	GLN	1090	10.850	115.092	42.917	1.00	0.00	H
ATOM	10341	CA	GLN	1090	8.889	115.032	42.064	1.00	0.00	C
ATOM	10342	CB	GLN	1090	9.431	115.627	40.744	1.00	0.00	C
ATOM	10343	CG	GLN	1090	10.681	114.964	40.172	1.00	0.00	C
ATOM	10344	CD	GLN	1090	11.892	115.695	40.753	1.00	0.00	C
ATOM	10345	OE1	GLN	1090	12.043	115.818	41.967	1.00	0.00	O
ATOM	10346	NE2	GLN	1090	12.775	116.213	39.858	1.00	0.00	N
ATOM	10347	1HE2	GLN	1090	13.583	116.701	40.246	1.00	0.00	H
ATOM	10348	2HE2	GLN	1090	12.650	116.111	38.851	1.00	0.00	H
ATOM	10349	C	GLN	1090	8.270	113.686	41.856	1.00	0.00	C
ATOM	10350	O	GLN	1090	7.073	113.579	41.590	1.00	0.00	O
ATOM	10351	N	LYS	1091	9.065	112.614	42.022	1.00	0.00	N
ATOM	10352	HN	LYS	1091	10.041	112.746	42.288	1.00	0.00	H
ATOM	10353	CA	LYS	1091	8.554	111.285	41.829	1.00	0.00	C
ATOM	10354	CB	LYS	1091	9.563	110.199	42.245	1.00	0.00	C
ATOM	10355	CG	LYS	1091	10.842	110.118	41.408	1.00	0.00	C
ATOM	10356	CD	LYS	1091	10.615	109.687	39.959	1.00	0.00	C
ATOM	10357	CE	LYS	1091	11.912	109.398	39.199	1.00	0.00	C

ATOM	10358	NZ	LYS	1091	12.426	108.062	39.577	1.00	0.00	N
ATOM	10359	HZ1	LYS	1091	13.290	107.869	39.071	1.00	0.00	H
ATOM	10360	HZ2	LYS	1091	11.729	107.330	39.440	1.00	0.00	H
ATOM	10361	HZ3	LYS	1091	12.543	107.967	40.586	1.00	0.00	H
ATOM	10362	C	LYS	1091	7.385	111.099	42.748	1.00	0.00	C
ATOM	10363	O	LYS	1091	6.315	110.669	42.322	1.00	0.00	O
ATOM	10364	N	GLN	1092	7.546	111.466	44.034	1.00	0.00	N
ATOM	10365	HN	GLN	1092	8.425	111.892	44.329	1.00	0.00	H
ATOM	10366	CA	GLN	1092	6.498	111.266	44.996	1.00	0.00	C
ATOM	10367	CB	GLN	1092	6.882	111.690	46.419	1.00	0.00	C
ATOM	10368	CG	GLN	1092	7.942	110.778	47.037	1.00	0.00	C
ATOM	10369	CD	GLN	1092	7.340	109.382	47.147	1.00	0.00	C
ATOM	10370	OE1	GLN	1092	6.970	108.772	46.145	1.00	0.00	O
ATOM	10371	NE2	GLN	1092	7.229	108.859	48.398	1.00	0.00	N
ATOM	10372	1HE2	GLN	1092	7.536	109.365	49.229	1.00	0.00	H
ATOM	10373	2HE2	GLN	1092	6.826	107.925	48.472	1.00	0.00	H
ATOM	10374	C	GLN	1092	5.322	112.078	44.577	1.00	0.00	C
ATOM	10375	O	GLN	1092	4.177	111.697	44.816	1.00	0.00	O
ATOM	10376	N	ARG	1093	5.570	113.237	43.949	1.00	0.00	N
ATOM	10377	HN	ARG	1093	6.529	113.544	43.786	1.00	0.00	H
ATOM	10378	CA	ARG	1093	4.466	114.034	43.512	1.00	0.00	C
ATOM	10379	CB	ARG	1093	4.929	115.290	42.751	1.00	0.00	C
ATOM	10380	CG	ARG	1093	5.570	116.364	43.639	1.00	0.00	C
ATOM	10381	CD	ARG	1093	6.335	117.424	42.840	1.00	0.00	C
ATOM	10382	NE	ARG	1093	6.654	118.561	43.751	1.00	0.00	N
ATOM	10383	HE	ARG	1093	6.050	119.383	43.760	1.00	0.00	H
ATOM	10384	CZ	ARG	1093	7.743	118.517	44.573	1.00	0.00	C
ATOM	10385	NH1	ARG	1093	8.510	117.389	44.636	1.00	0.00	N
ATOM	10386	1HH1	ARG	1093	9.324	117.356	45.250	1.00	0.00	H
ATOM	10387	2HH1	ARG	1093	8.274	116.576	44.067	1.00	0.00	H
ATOM	10388	NH2	ARG	1093	8.059	119.606	45.335	1.00	0.00	N
ATOM	10389	1HH2	ARG	1093	8.873	119.573	45.949	1.00	0.00	H
ATOM	10390	2HH2	ARG	1093	7.486	120.449	45.288	1.00	0.00	H
ATOM	10391	C	ARG	1093	3.650	113.194	42.568	1.00	0.00	C
ATOM	10392	O	ARG	1093	2.422	113.183	42.637	1.00	0.00	O
ATOM	10393	N	ILE	1094	4.314	112.457	41.659	1.00	0.00	N
ATOM	10394	HN	ILE	1094	5.334	112.466	41.655	1.00	0.00	H
ATOM	10395	CA	ILE	1094	3.609	111.655	40.691	1.00	0.00	C
ATOM	10396	CB	ILE	1094	4.526	111.016	39.690	1.00	0.00	C
ATOM	10397	CG1	ILE	1094	5.389	112.080	38.995	1.00	0.00	C
ATOM	10398	CG2	ILE	1094	3.662	110.209	38.706	1.00	0.00	C
ATOM	10399	CD1	ILE	1094	6.541	111.491	38.180	1.00	0.00	C
ATOM	10400	C	ILE	1094	2.874	110.530	41.364	1.00	0.00	C
ATOM	10401	O	ILE	1094	1.695	110.303	41.091	1.00	0.00	O
ATOM	10402	N	ALA	1095	3.546	109.817	42.293	1.00	0.00	N
ATOM	10403	HN	ALA	1095	4.483	110.111	42.569	1.00	0.00	H
ATOM	10404	CA	ALA	1095	2.964	108.650	42.900	1.00	0.00	C
ATOM	10405	CB	ALA	1095	3.865	108.033	43.982	1.00	0.00	C
ATOM	10406	C	ALA	1095	1.697	109.079	43.553	1.00	0.00	C
ATOM	10407	O	ALA	1095	0.666	108.421	43.435	1.00	0.00	O
ATOM	10408	N	ILE	1096	1.740	110.234	44.229	1.00	0.00	N
ATOM	10409	HN	ILE	1096	2.617	110.754	44.266	1.00	0.00	H
ATOM	10410	CA	ILE	1096	0.592	110.760	44.900	1.00	0.00	C
ATOM	10411	CB	ILE	1096	0.883	112.074	45.563	1.00	0.00	C
ATOM	10412	CG1	ILE	1096	1.968	111.895	46.638	1.00	0.00	C
ATOM	10413	CG2	ILE	1096	-0.440	112.652	46.087	1.00	0.00	C
ATOM	10414	CD1	ILE	1096	1.608	110.865	47.707	1.00	0.00	C
ATOM	10415	C	ILE	1096	-0.443	111.005	43.866	1.00	0.00	C
ATOM	10416	O	ILE	1096	-1.630	110.776	44.102	1.00	0.00	O
ATOM	10417	N	ALA	1097	-0.007	111.490	42.688	1.00	0.00	N
ATOM	10418	HN	ALA	1097	0.987	111.656	42.529	1.00	0.00	H
ATOM	10419	CA	ALA	1097	-0.964	111.766	41.668	1.00	0.00	C
ATOM	10420	CB	ALA	1097	-0.318	112.236	40.353	1.00	0.00	C
ATOM	10421	C	ALA	1097	-1.677	110.497	41.393	1.00	0.00	C
ATOM	10422	O	ALA	1097	-2.869	110.449	41.679	1.00	0.00	O
ATOM	10423	N	ARG	1098	-0.937	109.405	41.079	1.00	0.00	N
ATOM	10424	HN	ARG	1098	0.080	109.455	41.145	1.00	0.00	H
ATOM	10425	CA	ARG	1098	-1.557	108.176	40.654	1.00	0.00	C
ATOM	10426	CB	ARG	1098	-0.622	106.961	40.464	1.00	0.00	C
ATOM	10427	CG	ARG	1098	-0.007	106.389	41.740	1.00	0.00	C
ATOM	10428	CD	ARG	1098	0.486	104.947	41.595	1.00	0.00	C
ATOM	10429	NE	ARG	1098	1.974	104.957	41.598	1.00	0.00	N
ATOM	10430	HE	ARG	1098	2.478	105.825	41.780	1.00	0.00	H
ATOM	10431	CZ	ARG	1098	2.663	103.804	41.357	1.00	0.00	C

ATOM	10432	NH1	ARG	1098	2.001	102.686	40.938	1.00	0.00	N
ATOM	10433	1HH1	ARG	1098	2.516	101.824	40.758	1.00	0.00	H
ATOM	10434	2HH1	ARG	1098	0.990	102.714	40.806	1.00	0.00	H
ATOM	10435	NH2	ARG	1098	4.015	103.766	41.533	1.00	0.00	N
ATOM	10436	1HH2	ARG	1098	4.530	102.904	41.353	1.00	0.00	H
ATOM	10437	2HH2	ARG	1098	4.510	104.601	41.846	1.00	0.00	H
ATOM	10438	C	ARG	1098	-2.550	107.800	41.703	1.00	0.00	C
ATOM	10439	O	ARG	1098	-3.670	107.413	41.386	1.00	0.00	O
ATOM	10440	N	ALA	1099	-2.191	107.979	42.988	1.00	0.00	N
ATOM	10441	HN	ALA	1099	-1.263	108.327	43.229	1.00	0.00	H
ATOM	10442	CA	ALA	1099	-3.149	107.667	44.009	1.00	0.00	C
ATOM	10443	CB	ALA	1099	-2.563	107.802	45.424	1.00	0.00	C
ATOM	10444	C	ALA	1099	-4.351	108.567	43.952	1.00	0.00	C
ATOM	10445	O	ALA	1099	-5.467	108.109	43.731	1.00	0.00	O
ATOM	10446	N	LEU	1100	-4.158	109.894	44.023	1.00	0.00	N
ATOM	10447	HN	LEU	1100	-3.207	110.262	44.057	1.00	0.00	H
ATOM	10448	CA	LEU	1100	-5.272	110.805	44.052	1.00	0.00	C
ATOM	10449	CB	LEU	1100	-4.863	112.284	44.180	1.00	0.00	C
ATOM	10450	CG	LEU	1100	-4.414	112.659	45.603	1.00	0.00	C
ATOM	10451	CD1	LEU	1100	-3.254	111.774	46.064	1.00	0.00	C
ATOM	10452	CD2	LEU	1100	-4.104	114.159	45.738	1.00	0.00	C
ATOM	10453	C	LEU	1100	-6.053	110.668	42.781	1.00	0.00	C
ATOM	10454	O	LEU	1100	-7.183	111.141	42.703	1.00	0.00	O
ATOM	10455	N	VAL	1101	-5.439	110.165	41.695	1.00	0.00	N
ATOM	10456	HN	VAL	1101	-4.443	109.945	41.720	1.00	0.00	H
ATOM	10457	CA	VAL	1101	-6.207	109.940	40.494	1.00	0.00	C
ATOM	10458	CB	VAL	1101	-5.516	109.817	39.153	1.00	0.00	C
ATOM	10459	CG1	VAL	1101	-5.197	111.223	38.662	1.00	0.00	C
ATOM	10460	CG2	VAL	1101	-4.282	108.915	39.207	1.00	0.00	C
ATOM	10461	C	VAL	1101	-7.128	108.781	40.652	1.00	0.00	C
ATOM	10462	O	VAL	1101	-8.165	108.718	39.998	1.00	0.00	O
ATOM	10463	N	ARG	1102	-6.738	107.805	41.482	1.00	0.00	N
ATOM	10464	HN	ARG	1102	-5.822	107.887	41.924	1.00	0.00	H
ATOM	10465	CA	ARG	1102	-7.531	106.654	41.785	1.00	0.00	C
ATOM	10466	CB	ARG	1102	-6.759	105.582	42.575	1.00	0.00	C
ATOM	10467	CG	ARG	1102	-7.455	104.219	42.573	1.00	0.00	C
ATOM	10468	CD	ARG	1102	-6.638	103.085	43.200	1.00	0.00	C
ATOM	10469	NE	ARG	1102	-5.510	102.743	42.285	1.00	0.00	N
ATOM	10470	HE	ARG	1102	-5.651	102.052	41.548	1.00	0.00	H
ATOM	10471	CZ	ARG	1102	-4.291	103.344	42.422	1.00	0.00	C
ATOM	10472	NH1	ARG	1102	-4.107	104.321	43.357	1.00	0.00	N
ATOM	10473	1HH1	ARG	1102	-3.197	104.770	43.459	1.00	0.00	H
ATOM	10474	2HH1	ARG	1102	-4.882	104.616	43.951	1.00	0.00	H
ATOM	10475	NH2	ARG	1102	-3.253	102.949	41.627	1.00	0.00	N
ATOM	10476	1HH2	ARG	1102	-2.343	103.398	41.729	1.00	0.00	H
ATOM	10477	2HH2	ARG	1102	-3.391	102.219	40.928	1.00	0.00	H
ATOM	10478	C	ARG	1102	-8.713	107.116	42.589	1.00	0.00	C
ATOM	10479	O	ARG	1102	-9.736	106.435	42.656	1.00	0.00	O
ATOM	10480	N	GLN	1103	-8.605	108.302	43.225	1.00	0.00	N
ATOM	10481	HN	GLN	1103	-7.782	108.884	43.066	1.00	0.00	H
ATOM	10482	CA	GLN	1103	-9.632	108.759	44.124	1.00	0.00	C
ATOM	10483	CB	GLN	1103	-10.954	109.207	43.462	1.00	0.00	C
ATOM	10484	CG	GLN	1103	-11.055	110.696	43.104	1.00	0.00	C
ATOM	10485	CD	GLN	1103	-10.300	111.004	41.828	1.00	0.00	C
ATOM	10486	OE1	GLN	1103	-9.289	110.375	41.537	1.00	0.00	O
ATOM	10487	NE2	GLN	1103	-10.795	111.997	41.042	1.00	0.00	N
ATOM	10488	1HE2	GLN	1103	-10.286	112.204	40.183	1.00	0.00	H
ATOM	10489	2HE2	GLN	1103	-11.636	112.520	41.284	1.00	0.00	H
ATOM	10490	C	GLN	1103	-9.972	107.693	45.127	1.00	0.00	C
ATOM	10491	O	GLN	1103	-11.069	107.137	45.072	1.00	0.00	O
ATOM	10492	N	PRO	1104	-9.072	107.374	46.040	1.00	0.00	N
ATOM	10493	CA	PRO	1104	-9.351	106.386	47.050	1.00	0.00	C
ATOM	10494	CD	PRO	1104	-7.638	107.452	45.781	1.00	0.00	C
ATOM	10495	CB	PRO	1104	-8.002	105.929	47.603	1.00	0.00	C
ATOM	10496	CG	PRO	1104	-7.009	106.241	46.479	1.00	0.00	C
ATOM	10497	C	PRO	1104	-10.188	106.987	48.132	1.00	0.00	C
ATOM	10498	O	PRO	1104	-10.701	108.088	47.944	1.00	0.00	O
ATOM	10499	N	HIS	1105	-10.570	106.168	49.124	1.00	0.00	N
ATOM	10500	HN	HIS	1105	-10.430	105.168	48.983	1.00	0.00	H
ATOM	10501	CA	HIS	1105	-11.158	106.579	50.365	1.00	0.00	C
ATOM	10502	ND1	HIS	1105	-13.288	105.722	48.267	1.00	0.00	N
ATOM	10503	HD1	HIS	1105	-12.509	105.204	47.860	1.00	0.00	H
ATOM	10504	CG	HIS	1105	-13.437	106.073	49.590	1.00	0.00	C
ATOM	10505	CB	HIS	1105	-12.423	105.769	50.654	1.00	0.00	C

ATOM	10506	NE2	HIS	1105	-15.211	106.826	48.416	1.00	0.00	N
ATOM	10507	HE2	HIS	1105	-16.096	107.271	48.173	1.00	0.00	H
ATOM	10508	CD2	HIS	1105	-14.619	106.746	49.663	1.00	0.00	C
ATOM	10509	CE1	HIS	1105	-14.375	106.197	47.609	1.00	0.00	C
ATOM	10510	C	HIS	1105	-10.190	106.514	51.519	1.00	0.00	C
ATOM	10511	O	HIS	1105	-10.333	107.210	52.523	1.00	0.00	O
ATOM	10512	N	ILE	1106	-9.200	105.606	51.427	1.00	0.00	N
ATOM	10513	HN	ILE	1106	-9.096	105.081	50.559	1.00	0.00	H
ATOM	10514	CA	ILE	1106	-8.283	105.347	52.504	1.00	0.00	C
ATOM	10515	CB	ILE	1106	-8.396	103.916	52.980	1.00	0.00	C
ATOM	10516	CG1	ILE	1106	-7.845	103.694	54.403	1.00	0.00	C
ATOM	10517	CG2	ILE	1106	-7.743	103.021	51.912	1.00	0.00	C
ATOM	10518	CD1	ILE	1106	-6.327	103.756	54.545	1.00	0.00	C
ATOM	10519	C	ILE	1106	-6.918	105.582	51.922	1.00	0.00	C
ATOM	10520	O	ILE	1106	-6.783	105.589	50.700	1.00	0.00	O
ATOM	10521	N	LEU	1107	-5.887	105.875	52.752	1.00	0.00	N
ATOM	10522	HN	LEU	1107	-6.040	105.953	53.757	1.00	0.00	H
ATOM	10523	CA	LEU	1107	-4.570	106.075	52.196	1.00	0.00	C
ATOM	10524	CB	LEU	1107	-4.157	107.557	52.077	1.00	0.00	C
ATOM	10525	CG	LEU	1107	-5.057	108.423	51.170	1.00	0.00	C
ATOM	10526	CD1	LEU	1107	-4.474	109.836	51.015	1.00	0.00	C
ATOM	10527	CD2	LEU	1107	-5.330	107.751	49.816	1.00	0.00	C
ATOM	10528	C	LEU	1107	-3.525	105.419	53.060	1.00	0.00	C
ATOM	10529	O	LEU	1107	-3.590	105.454	54.284	1.00	0.00	O
ATOM	10530	N	LEU	1108	-2.519	104.784	52.432	1.00	0.00	N
ATOM	10531	HN	LEU	1108	-2.532	104.721	51.414	1.00	0.00	H
ATOM	10532	CA	LEU	1108	-1.432	104.195	53.150	1.00	0.00	C
ATOM	10533	CB	LEU	1108	-1.155	102.737	52.741	1.00	0.00	C
ATOM	10534	CG	LEU	1108	-2.336	101.782	53.012	1.00	0.00	C
ATOM	10535	CD1	LEU	1108	-2.008	100.341	52.586	1.00	0.00	C
ATOM	10536	CD2	LEU	1108	-2.799	101.872	54.473	1.00	0.00	C
ATOM	10537	C	LEU	1108	-0.214	104.995	52.819	1.00	0.00	C
ATOM	10538	O	LEU	1108	0.420	104.801	51.781	1.00	0.00	O
ATOM	10539	N	LEU	1109	0.154	105.925	53.715	1.00	0.00	N
ATOM	10540	HN	LEU	1109	-0.386	106.068	54.568	1.00	0.00	H
ATOM	10541	CA	LEU	1109	1.317	106.709	53.449	1.00	0.00	C
ATOM	10542	CB	LEU	1109	1.068	108.200	53.708	1.00	0.00	C
ATOM	10543	CG	LEU	1109	0.145	108.806	52.623	1.00	0.00	C
ATOM	10544	CD1	LEU	1109	-1.196	108.071	52.492	1.00	0.00	C
ATOM	10545	CD2	LEU	1109	-0.098	110.286	52.875	1.00	0.00	C
ATOM	10546	C	LEU	1109	2.410	106.139	54.294	1.00	0.00	C
ATOM	10547	O	LEU	1109	2.578	106.487	55.462	1.00	0.00	O
ATOM	10548	N	ASP	1110	3.197	105.241	53.666	1.00	0.00	N
ATOM	10549	HN	ASP	1110	3.057	105.109	52.664	1.00	0.00	H
ATOM	10550	CA	ASP	1110	4.217	104.457	54.302	1.00	0.00	C
ATOM	10551	CB	ASP	1110	4.461	103.130	53.558	1.00	0.00	C
ATOM	10552	CG	ASP	1110	5.421	102.223	54.323	1.00	0.00	C
ATOM	10553	OD1	ASP	1110	6.156	102.709	55.224	1.00	0.00	O
ATOM	10554	OD2	ASP	1110	5.430	101.007	53.994	1.00	0.00	O
ATOM	10555	C	ASP	1110	5.501	105.207	54.313	1.00	0.00	C
ATOM	10556	O	ASP	1110	6.334	104.997	53.430	1.00	0.00	O
ATOM	10557	N	GLU	1111	5.666	106.091	55.324	1.00	0.00	N
ATOM	10558	HN	GLU	1111	4.893	106.220	55.977	1.00	0.00	H
ATOM	10559	CA	GLU	1111	6.862	106.860	55.536	1.00	0.00	C
ATOM	10560	CB	GLU	1111	8.062	106.032	56.016	1.00	0.00	C
ATOM	10561	CG	GLU	1111	7.922	105.440	57.412	1.00	0.00	C
ATOM	10562	CD	GLU	1111	9.234	104.728	57.683	1.00	0.00	C
ATOM	10563	OE1	GLU	1111	9.518	103.723	56.980	1.00	0.00	O
ATOM	10564	OE2	GLU	1111	9.980	105.191	58.588	1.00	0.00	O
ATOM	10565	C	GLU	1111	7.285	107.408	54.226	1.00	0.00	C
ATOM	10566	O	GLU	1111	8.489	107.433	53.969	1.00	0.00	O
ATOM	10567	N	ALA	1112	6.324	107.914	53.415	1.00	0.00	N
ATOM	10568	HN	ALA	1112	5.387	108.086	53.780	1.00	0.00	H
ATOM	10569	CA	ALA	1112	6.624	108.208	52.042	1.00	0.00	C
ATOM	10570	CB	ALA	1112	5.460	108.902	51.314	1.00	0.00	C
ATOM	10571	C	ALA	1112	7.811	109.111	51.963	1.00	0.00	C
ATOM	10572	O	ALA	1112	8.851	108.680	51.469	1.00	0.00	O
ATOM	10573	N	THR	1113	7.764	110.301	52.589	1.00	0.00	N
ATOM	10574	HN	THR	1113	6.931	110.591	53.101	1.00	0.00	H
ATOM	10575	CA	THR	1113	8.919	111.151	52.516	1.00	0.00	C
ATOM	10576	CB	THR	1113	8.579	112.610	52.567	1.00	0.00	C
ATOM	10577	OG1	THR	1113	7.877	112.917	53.762	1.00	0.00	O
ATOM	10578	HG1	THR	1113	7.662	113.842	53.794	1.00	0.00	H
ATOM	10579	CG2	THR	1113	7.700	112.937	51.351	1.00	0.00	C

ATOM	10580	C	THR	1113	9.794	110.818	53.684	1.00	0.00	C
ATOM	10581	O	THR	1113	9.699	111.395	54.769	1.00	0.00	O
ATOM	10582	N	SER	1114	10.583	109.746	53.502	1.00	0.00	N
ATOM	10583	HN	SER	1114	10.465	109.210	52.642	1.00	0.00	H
ATOM	10584	CA	SER	1114	11.576	109.305	54.430	1.00	0.00	C
ATOM	10585	CB	SER	1114	11.697	107.774	54.453	1.00	0.00	C
ATOM	10586	OG	SER	1114	12.611	107.378	55.463	1.00	0.00	O
ATOM	10587	HG	SER	1114	12.686	106.431	55.477	1.00	0.00	H
ATOM	10588	C	SER	1114	12.900	109.862	54.029	1.00	0.00	C
ATOM	10589	O	SER	1114	13.829	109.887	54.830	1.00	0.00	O
ATOM	10590	N	ALA	1115	13.055	110.233	52.744	1.00	0.00	N
ATOM	10591	HN	ALA	1115	12.294	110.101	52.077	1.00	0.00	H
ATOM	10592	CA	ALA	1115	14.294	110.814	52.317	1.00	0.00	C
ATOM	10593	CB	ALA	1115	15.230	109.819	51.618	1.00	0.00	C
ATOM	10594	C	ALA	1115	13.952	111.867	51.317	1.00	0.00	C
ATOM	10595	O	ALA	1115	13.488	111.563	50.217	1.00	0.00	O
ATOM	10596	N	LEU	1116	14.200	113.140	51.680	1.00	0.00	N
ATOM	10597	HN	LEU	1116	14.616	113.318	52.594	1.00	0.00	H
ATOM	10598	CA	LEU	1116	13.901	114.256	50.829	1.00	0.00	C
ATOM	10599	CB	LEU	1116	12.453	114.786	50.865	1.00	0.00	C
ATOM	10600	CG	LEU	1116	11.374	113.937	50.185	1.00	0.00	C
ATOM	10601	CD1	LEU	1116	11.697	113.715	48.698	1.00	0.00	C
ATOM	10602	CD2	LEU	1116	11.075	112.661	50.977	1.00	0.00	C
ATOM	10603	C	LEU	1116	14.660	115.433	51.333	1.00	0.00	C
ATOM	10604	O	LEU	1116	15.687	115.306	51.999	1.00	0.00	O
ATOM	10605	N	ASP	1117	14.144	116.627	50.969	1.00	0.00	N
ATOM	10606	HN	ASP	1117	13.318	116.627	50.371	1.00	0.00	H
ATOM	10607	CA	ASP	1117	14.682	117.894	51.369	1.00	0.00	C
ATOM	10608	CB	ASP	1117	15.521	118.569	50.274	1.00	0.00	C
ATOM	10609	CG	ASP	1117	14.634	118.786	49.057	1.00	0.00	C
ATOM	10610	OD1	ASP	1117	13.479	118.285	49.056	1.00	0.00	O
ATOM	10611	OD2	ASP	1117	15.106	119.452	48.100	1.00	0.00	O
ATOM	10612	C	ASP	1117	13.550	118.815	51.744	1.00	0.00	C
ATOM	10613	O	ASP	1117	12.391	118.407	51.781	1.00	0.00	O
ATOM	10614	N	THR	1118	13.877	120.103	52.003	1.00	0.00	N
ATOM	10615	HN	THR	1118	14.823	120.411	51.780	1.00	0.00	H
ATOM	10616	CA	THR	1118	12.969	121.064	52.574	1.00	0.00	C
ATOM	10617	CB	THR	1118	13.631	122.392	52.799	1.00	0.00	C
ATOM	10618	OG1	THR	1118	12.713	123.308	53.380	1.00	0.00	O
ATOM	10619	HG1	THR	1118	12.388	122.981	54.210	1.00	0.00	H
ATOM	10620	CG2	THR	1118	14.157	122.922	51.455	1.00	0.00	C
ATOM	10621	C	THR	1118	11.683	121.309	51.816	1.00	0.00	C
ATOM	10622	O	THR	1118	10.616	121.023	52.352	1.00	0.00	O
ATOM	10623	N	GLU	1119	11.715	121.828	50.570	1.00	0.00	N
ATOM	10624	HN	GLU	1119	12.613	121.998	50.118	1.00	0.00	H
ATOM	10625	CA	GLU	1119	10.491	122.146	49.869	1.00	0.00	C
ATOM	10626	CB	GLU	1119	10.673	123.065	48.654	1.00	0.00	C
ATOM	10627	CG	GLU	1119	10.901	124.525	49.044	1.00	0.00	C
ATOM	10628	CD	GLU	1119	10.577	125.382	47.830	1.00	0.00	C
ATOM	10629	OE1	GLU	1119	9.785	124.908	46.971	1.00	0.00	O
ATOM	10630	OE2	GLU	1119	11.108	126.523	47.747	1.00	0.00	O
ATOM	10631	C	GLU	1119	9.805	120.910	49.411	1.00	0.00	C
ATOM	10632	O	GLU	1119	8.583	120.880	49.276	1.00	0.00	O
ATOM	10633	N	SER	1120	10.579	119.870	49.080	1.00	0.00	N
ATOM	10634	HN	SER	1120	11.595	119.934	49.141	1.00	0.00	H
ATOM	10635	CA	SER	1120	9.947	118.668	48.639	1.00	0.00	C
ATOM	10636	CB	SER	1120	10.949	117.565	48.270	1.00	0.00	C
ATOM	10637	OG	SER	1120	11.743	117.985	47.172	1.00	0.00	O
ATOM	10638	HG	SER	1120	12.363	117.302	46.944	1.00	0.00	H
ATOM	10639	C	SER	1120	9.159	118.155	49.784	1.00	0.00	C
ATOM	10640	O	SER	1120	7.960	117.903	49.674	1.00	0.00	O
ATOM	10641	N	GLU	1121	9.823	118.025	50.944	1.00	0.00	N
ATOM	10642	HN	GLU	1121	10.792	118.328	51.037	1.00	0.00	H
ATOM	10643	CA	GLU	1121	9.120	117.447	52.040	1.00	0.00	C
ATOM	10644	CB	GLU	1121	9.994	117.234	53.288	1.00	0.00	C
ATOM	10645	CG	GLU	1121	10.601	118.512	53.860	1.00	0.00	C
ATOM	10646	CD	GLU	1121	11.501	118.112	55.017	1.00	0.00	C
ATOM	10647	OE1	GLU	1121	10.965	117.573	56.022	1.00	0.00	O
ATOM	10648	OE2	GLU	1121	12.737	118.330	54.906	1.00	0.00	O
ATOM	10649	C	GLU	1121	7.959	118.319	52.388	1.00	0.00	C
ATOM	10650	O	GLU	1121	6.826	117.849	52.429	1.00	0.00	O
ATOM	10651	N	LYS	1122	8.180	119.632	52.570	1.00	0.00	N
ATOM	10652	HN	LYS	1122	9.097	120.042	52.393	1.00	0.00	H
ATOM	10653	CA	LYS	1122	7.085	120.435	53.021	1.00	0.00	C

ATOM	10654	CB	LYS	1122	7.478	121.899	53.337	1.00	0.00	C
ATOM	10655	CG	LYS	1122	7.421	122.893	52.167	1.00	0.00	C
ATOM	10656	CD	LYS	1122	5.999	123.367	51.828	1.00	0.00	C
ATOM	10657	CE	LYS	1122	5.872	124.190	50.545	1.00	0.00	C
ATOM	10658	NZ	LYS	1122	4.465	124.146	50.081	1.00	0.00	N
ATOM	10659	HZ1	LYS	1122	4.380	124.695	49.225	1.00	0.00	H
ATOM	10660	HZ2	LYS	1122	3.809	124.446	50.802	1.00	0.00	H
ATOM	10661	HZ3	LYS	1122	4.124	123.192	49.966	1.00	0.00	H
ATOM	10662	C	LYS	1122	5.989	120.439	52.001	1.00	0.00	C
ATOM	10663	O	LYS	1122	4.834	120.186	52.336	1.00	0.00	O
ATOM	10664	N	VAL	1123	6.318	120.669	50.715	1.00	0.00	N
ATOM	10665	HN	VAL	1123	7.299	120.737	50.443	1.00	0.00	H
ATOM	10666	CA	VAL	1123	5.285	120.818	49.726	1.00	0.00	C
ATOM	10667	CB	VAL	1123	5.802	121.069	48.331	1.00	0.00	C
ATOM	10668	CG1	VAL	1123	6.531	119.819	47.810	1.00	0.00	C
ATOM	10669	CG2	VAL	1123	4.613	121.483	47.447	1.00	0.00	C
ATOM	10670	C	VAL	1123	4.469	119.568	49.693	1.00	0.00	C
ATOM	10671	O	VAL	1123	3.246	119.627	49.581	1.00	0.00	O
ATOM	10672	N	VAL	1124	5.129	118.400	49.797	1.00	0.00	N
ATOM	10673	HN	VAL	1124	6.141	118.402	49.924	1.00	0.00	H
ATOM	10674	CA	VAL	1124	4.426	117.153	49.732	1.00	0.00	C
ATOM	10675	CB	VAL	1124	5.292	115.930	49.552	1.00	0.00	C
ATOM	10676	CG1	VAL	1124	5.956	116.018	48.171	1.00	0.00	C
ATOM	10677	CG2	VAL	1124	6.299	115.800	50.698	1.00	0.00	C
ATOM	10678	C	VAL	1124	3.544	116.986	50.927	1.00	0.00	C
ATOM	10679	O	VAL	1124	2.492	116.364	50.827	1.00	0.00	O
ATOM	10680	N	GLN	1125	3.948	117.518	52.092	1.00	0.00	N
ATOM	10681	HN	GLN	1125	4.847	117.997	52.137	1.00	0.00	H
ATOM	10682	CA	GLN	1125	3.142	117.427	53.275	1.00	0.00	C
ATOM	10683	CB	GLN	1125	3.803	118.108	54.486	1.00	0.00	C
ATOM	10684	CG	GLN	1125	2.966	118.024	55.762	1.00	0.00	C
ATOM	10685	CD	GLN	1125	3.051	116.597	56.288	1.00	0.00	C
ATOM	10686	OE1	GLN	1125	2.892	115.635	55.538	1.00	0.00	O
ATOM	10687	NE2	GLN	1125	3.319	116.456	57.614	1.00	0.00	N
ATOM	10688	1HE2	GLN	1125	3.451	117.254	58.236	1.00	0.00	H
ATOM	10689	2HE2	GLN	1125	3.376	115.500	57.966	1.00	0.00	H
ATOM	10690	C	GLN	1125	1.882	118.164	52.972	1.00	0.00	C
ATOM	10691	O	GLN	1125	0.810	117.820	53.469	1.00	0.00	O
ATOM	10692	N	GLU	1126	2.013	119.241	52.177	1.00	0.00	N
ATOM	10693	HN	GLU	1126	2.947	119.496	51.857	1.00	0.00	H
ATOM	10694	CA	GLU	1126	0.910	120.045	51.759	1.00	0.00	C
ATOM	10695	CB	GLU	1126	1.387	121.307	51.012	1.00	0.00	C
ATOM	10696	CG	GLU	1126	0.313	122.379	50.822	1.00	0.00	C
ATOM	10697	CD	GLU	1126	-0.256	122.244	49.419	1.00	0.00	C
ATOM	10698	OE1	GLU	1126	0.405	122.743	48.469	1.00	0.00	O
ATOM	10699	OE2	GLU	1126	-1.354	121.643	49.276	1.00	0.00	O
ATOM	10700	C	GLU	1126	0.053	119.220	50.850	1.00	0.00	C
ATOM	10701	O	GLU	1126	-1.173	119.247	50.948	1.00	0.00	O
ATOM	10702	N	ALA	1127	0.680	118.461	49.925	1.00	0.00	N
ATOM	10703	HN	ALA	1127	1.698	118.460	49.863	1.00	0.00	H
ATOM	10704	CA	ALA	1127	-0.102	117.656	49.031	1.00	0.00	C
ATOM	10705	CB	ALA	1127	0.760	116.937	47.980	1.00	0.00	C
ATOM	10706	C	ALA	1127	-0.815	116.609	49.827	1.00	0.00	C
ATOM	10707	O	ALA	1127	-2.040	116.552	49.849	1.00	0.00	O
ATOM	10708	N	LEU	1128	-0.058	115.851	50.632	1.00	0.00	N
ATOM	10709	HN	LEU	1128	0.943	116.046	50.664	1.00	0.00	H
ATOM	10710	CA	LEU	1128	-0.555	114.785	51.451	1.00	0.00	C
ATOM	10711	CB	LEU	1128	0.587	114.264	52.355	1.00	0.00	C
ATOM	10712	CG	LEU	1128	0.266	113.149	53.372	1.00	0.00	C
ATOM	10713	CD1	LEU	1128	1.555	112.660	54.054	1.00	0.00	C
ATOM	10714	CD2	LEU	1128	-0.787	113.553	54.418	1.00	0.00	C
ATOM	10715	C	LEU	1128	-1.618	115.402	52.302	1.00	0.00	C
ATOM	10716	O	LEU	1128	-2.603	114.752	52.654	1.00	0.00	O
ATOM	10717	N	ASP	1129	-1.415	116.677	52.680	1.00	0.00	N
ATOM	10718	HN	ASP	1129	-0.577	117.160	52.356	1.00	0.00	H
ATOM	10719	CA	ASP	1129	-2.337	117.380	53.523	1.00	0.00	C
ATOM	10720	CB	ASP	1129	-1.861	118.817	53.782	1.00	0.00	C
ATOM	10721	CG	ASP	1129	-2.853	119.518	54.696	1.00	0.00	C
ATOM	10722	OD1	ASP	1129	-3.743	118.835	55.271	1.00	0.00	O
ATOM	10723	OD2	ASP	1129	-2.726	120.763	54.831	1.00	0.00	O
ATOM	10724	C	ASP	1129	-3.692	117.490	52.881	1.00	0.00	C
ATOM	10725	O	ASP	1129	-4.666	116.912	53.354	1.00	0.00	O
ATOM	10726	N	LYS	1130	-3.786	118.197	51.744	1.00	0.00	N
ATOM	10727	HN	LYS	1130	-2.943	118.595	51.330	1.00	0.00	H

ATOM	10728	CA	LYS	1130	-5.054	118.402	51.101	1.00	0.00	C
ATOM	10729	CB	LYS	1130	-5.025	119.474	50.003	1.00	0.00	C
ATOM	10730	CG	LYS	1130	-5.208	120.855	50.629	1.00	0.00	C
ATOM	10731	CD	LYS	1130	-4.873	122.050	49.744	1.00	0.00	C
ATOM	10732	CE	LYS	1130	-5.328	123.353	50.399	1.00	0.00	C
ATOM	10733	NZ	LYS	1130	-5.318	123.178	51.870	1.00	0.00	N
ATOM	10734	HZ1	LYS	1130	-5.622	124.048	52.307	1.00	0.00	H
ATOM	10735	HZ2	LYS	1130	-4.413	122.862	52.218	1.00	0.00	H
ATOM	10736	HZ3	LYS	1130	-5.873	122.377	52.171	1.00	0.00	H
ATOM	10737	C	LYS	1130	-5.523	117.101	50.563	1.00	0.00	C
ATOM	10738	O	LYS	1130	-6.703	116.905	50.281	1.00	0.00	O
ATOM	10739	N	ALA	1131	-4.565	116.192	50.360	1.00	0.00	N
ATOM	10740	HN	ALA	1131	-3.600	116.450	50.568	1.00	0.00	H
ATOM	10741	CA	ALA	1131	-4.824	114.881	49.867	1.00	0.00	C
ATOM	10742	CB	ALA	1131	-3.547	114.042	49.695	1.00	0.00	C
ATOM	10743	C	ALA	1131	-5.689	114.176	50.862	1.00	0.00	C
ATOM	10744	O	ALA	1131	-6.539	113.375	50.478	1.00	0.00	O
ATOM	10745	N	ARG	1132	-5.467	114.436	52.169	1.00	0.00	N
ATOM	10746	HN	ARG	1132	-4.752	115.117	52.423	1.00	0.00	H
ATOM	10747	CA	ARG	1132	-6.208	113.782	53.213	1.00	0.00	C
ATOM	10748	CB	ARG	1132	-5.376	113.505	54.474	1.00	0.00	C
ATOM	10749	CG	ARG	1132	-4.907	114.816	55.092	1.00	0.00	C
ATOM	10750	CD	ARG	1132	-4.008	114.718	56.319	1.00	0.00	C
ATOM	10751	NE	ARG	1132	-3.545	116.110	56.572	1.00	0.00	N
ATOM	10752	HE	ARG	1132	-4.089	116.896	56.216	1.00	0.00	H
ATOM	10753	CZ	ARG	1132	-2.399	116.346	57.276	1.00	0.00	C
ATOM	10754	NH1	ARG	1132	-1.704	115.299	57.806	1.00	0.00	N
ATOM	10755	1HH1	ARG	1132	-0.848	115.475	58.332	1.00	0.00	H
ATOM	10756	2HH1	ARG	1132	-2.046	114.345	57.691	1.00	0.00	H
ATOM	10757	NH2	ARG	1132	-1.942	117.620	57.429	1.00	0.00	N
ATOM	10758	1HH2	ARG	1132	-1.086	117.796	57.955	1.00	0.00	H
ATOM	10759	2HH2	ARG	1132	-2.462	118.403	57.033	1.00	0.00	H
ATOM	10760	C	ARG	1132	-7.333	114.673	53.643	1.00	0.00	C
ATOM	10761	O	ARG	1132	-7.644	115.678	53.008	1.00	0.00	O
ATOM	10762	N	GLU	1133	-8.041	114.245	54.710	1.00	0.00	N
ATOM	10763	HN	GLU	1133	-7.775	113.345	55.110	1.00	0.00	H
ATOM	10764	CA	GLU	1133	-9.137	114.938	55.338	1.00	0.00	C
ATOM	10765	CB	GLU	1133	-8.832	116.435	55.529	1.00	0.00	C
ATOM	10766	CG	GLU	1133	-9.790	117.155	56.479	1.00	0.00	C
ATOM	10767	CD	GLU	1133	-11.040	117.532	55.702	1.00	0.00	C
ATOM	10768	OE1	GLU	1133	-10.942	117.637	54.451	1.00	0.00	O
ATOM	10769	OE2	GLU	1133	-12.107	117.723	56.347	1.00	0.00	O
ATOM	10770	C	GLU	1133	-10.335	114.810	54.458	1.00	0.00	C
ATOM	10771	O	GLU	1133	-11.475	114.903	54.909	1.00	0.00	O
ATOM	10772	N	GLY	1134	-10.088	114.577	53.163	1.00	0.00	N
ATOM	10773	HN	GLY	1134	-9.123	114.635	52.837	1.00	0.00	H
ATOM	10774	CA	GLY	1134	-11.099	114.253	52.218	1.00	0.00	C
ATOM	10775	C	GLY	1134	-11.429	112.824	52.477	1.00	0.00	C
ATOM	10776	O	GLY	1134	-12.557	112.381	52.262	1.00	0.00	O
ATOM	10777	N	ARG	1135	-10.402	112.057	52.908	1.00	0.00	N
ATOM	10778	HN	ARG	1135	-9.505	112.489	53.131	1.00	0.00	H
ATOM	10779	CA	ARG	1135	-10.567	110.640	53.053	1.00	0.00	C
ATOM	10780	CB	ARG	1135	-9.931	109.838	51.915	1.00	0.00	C
ATOM	10781	CG	ARG	1135	-9.955	110.513	50.556	1.00	0.00	C
ATOM	10782	CD	ARG	1135	-8.931	111.646	50.479	1.00	0.00	C
ATOM	10783	NE	ARG	1135	-8.858	112.094	49.063	1.00	0.00	N
ATOM	10784	HE	ARG	1135	-9.347	112.937	48.762	1.00	0.00	H
ATOM	10785	CZ	ARG	1135	-8.129	111.363	48.173	1.00	0.00	C
ATOM	10786	NH1	ARG	1135	-7.568	110.182	48.566	1.00	0.00	N
ATOM	10787	1HH1	ARG	1135	-7.688	109.853	49.524	1.00	0.00	H
ATOM	10788	2HH1	ARG	1135	-7.022	109.635	47.900	1.00	0.00	H
ATOM	10789	NH2	ARG	1135	-7.968	111.804	46.890	1.00	0.00	N
ATOM	10790	1HH2	ARG	1135	-8.387	112.686	46.596	1.00	0.00	H
ATOM	10791	2HH2	ARG	1135	-7.422	111.257	46.224	1.00	0.00	H
ATOM	10792	C	ARG	1135	-9.759	110.177	54.219	1.00	0.00	C
ATOM	10793	O	ARG	1135	-8.869	110.876	54.702	1.00	0.00	O
ATOM	10794	N	THR	1136	-10.034	108.937	54.675	1.00	0.00	N
ATOM	10795	HN	THR	1136	-10.774	108.385	54.241	1.00	0.00	H
ATOM	10796	CA	THR	1136	-9.286	108.398	55.768	1.00	0.00	C
ATOM	10797	CB	THR	1136	-9.927	107.224	56.449	1.00	0.00	C
ATOM	10798	OG1	THR	1136	-9.299	106.988	57.699	1.00	0.00	O
ATOM	10799	HG1	THR	1136	-9.396	107.756	58.250	1.00	0.00	H
ATOM	10800	CG2	THR	1136	-9.771	105.983	55.559	1.00	0.00	C
ATOM	10801	C	THR	1136	-7.957	107.961	55.244	1.00	0.00	C

ATOM	10802	O	THR	1136	-7.830	107.534	54.096	1.00	0.00	O
ATOM	10803	N	CYS	1137	-6.906	108.093	56.079	1.00	0.00	N
ATOM	10804	HN	CYS	1137	-7.022	108.493	57.010	1.00	0.00	H
ATOM	10805	CA	CYS	1137	-5.624	107.655	55.620	1.00	0.00	C
ATOM	10806	CB	CYS	1137	-4.922	108.671	54.696	1.00	0.00	C
ATOM	10807	SG	CYS	1137	-4.601	110.285	55.470	1.00	0.00	S
ATOM	10808	C	CYS	1137	-4.740	107.360	56.790	1.00	0.00	C
ATOM	10809	O	CYS	1137	-4.634	108.130	57.744	1.00	0.00	O
ATOM	10810	N	ILE	1138	-4.047	106.211	56.734	1.00	0.00	N
ATOM	10811	HN	ILE	1138	-4.147	105.585	55.935	1.00	0.00	H
ATOM	10812	CA	ILE	1138	-3.170	105.878	57.806	1.00	0.00	C
ATOM	10813	CB	ILE	1138	-3.101	104.400	58.067	1.00	0.00	C
ATOM	10814	CG1	ILE	1138	-4.514	103.851	58.331	1.00	0.00	C
ATOM	10815	CG2	ILE	1138	-2.146	104.161	59.248	1.00	0.00	C
ATOM	10816	CD1	ILE	1138	-4.585	102.324	58.327	1.00	0.00	C
ATOM	10817	C	ILE	1138	-1.833	106.356	57.372	1.00	0.00	C
ATOM	10818	O	ILE	1138	-1.167	105.747	56.532	1.00	0.00	O
ATOM	10819	N	VAL	1139	-1.437	107.520	57.914	1.00	0.00	N
ATOM	10820	HN	VAL	1139	-2.056	108.042	58.534	1.00	0.00	H
ATOM	10821	CA	VAL	1139	-0.139	108.009	57.607	1.00	0.00	C
ATOM	10822	CB	VAL	1139	-0.017	109.512	57.579	1.00	0.00	C
ATOM	10823	CG1	VAL	1139	-0.914	110.038	56.453	1.00	0.00	C
ATOM	10824	CG2	VAL	1139	-0.370	110.110	58.947	1.00	0.00	C
ATOM	10825	C	VAL	1139	0.721	107.446	58.682	1.00	0.00	C
ATOM	10826	O	VAL	1139	0.521	107.699	59.871	1.00	0.00	O
ATOM	10827	N	ILE	1140	1.688	106.601	58.292	1.00	0.00	N
ATOM	10828	HN	ILE	1140	1.831	106.352	57.313	1.00	0.00	H
ATOM	10829	CA	ILE	1140	2.503	106.075	59.338	1.00	0.00	C
ATOM	10830	CB	ILE	1140	2.580	104.578	59.453	1.00	0.00	C
ATOM	10831	CG1	ILE	1140	3.520	103.974	58.409	1.00	0.00	C
ATOM	10832	CG2	ILE	1140	1.146	104.053	59.275	1.00	0.00	C
ATOM	10833	CD1	ILE	1140	3.088	104.277	56.997	1.00	0.00	C
ATOM	10834	C	ILE	1140	3.862	106.522	58.963	1.00	0.00	C
ATOM	10835	O	ILE	1140	4.161	106.676	57.780	1.00	0.00	O
ATOM	10836	N	ALA	1141	4.720	106.800	59.955	1.00	0.00	N
ATOM	10837	HN	ALA	1141	4.469	106.686	60.937	1.00	0.00	H
ATOM	10838	CA	ALA	1141	6.004	107.264	59.550	1.00	0.00	C
ATOM	10839	CB	ALA	1141	5.973	108.676	58.937	1.00	0.00	C
ATOM	10840	C	ALA	1141	6.933	107.306	60.713	1.00	0.00	C
ATOM	10841	O	ALA	1141	6.568	107.046	61.859	1.00	0.00	O
ATOM	10842	N	HIS	1142	8.218	107.504	60.369	1.00	0.00	N
ATOM	10843	HN	HIS	1142	8.435	107.496	59.372	1.00	0.00	H
ATOM	10844	CA	HIS							

ATOM	10876	CG	LEU	1144	9.374	109.734	66.307	1.00	0.00	C
ATOM	10877	CD1	LEU	1144	8.140	109.006	66.852	1.00	0.00	C
ATOM	10878	CD2	LEU	1144	10.006	109.037	65.097	1.00	0.00	C
ATOM	10879	C	LEU	1144	7.643	112.925	65.089	1.00	0.00	C
ATOM	10880	O	LEU	1144	6.740	113.219	65.871	1.00	0.00	O
ATOM	10881	N	SER	1145	8.369	113.842	64.428	1.00	0.00	N
ATOM	10882	HN	SER	1145	9.136	113.513	63.842	1.00	0.00	H
ATOM	10883	CA	SER	1145	8.131	115.256	64.496	1.00	0.00	C
ATOM	10884	CB	SER	1145	9.154	116.030	63.659	1.00	0.00	C
ATOM	10885	OG	SER	1145	10.456	115.539	63.926	1.00	0.00	O
ATOM	10886	HG	SER	1145	11.090	116.019	63.407	1.00	0.00	H
ATOM	10887	C	SER	1145	6.802	115.654	63.909	1.00	0.00	C
ATOM	10888	O	SER	1145	5.874	116.041	64.616	1.00	0.00	O
ATOM	10889	N	THR	1146	6.701	115.517	62.572	1.00	0.00	N
ATOM	10890	HN	THR	1146	7.469	115.030	62.111	1.00	0.00	H
ATOM	10891	CA	THR	1146	5.635	115.978	61.715	1.00	0.00	C
ATOM	10892	CB	THR	1146	5.966	115.883	60.253	1.00	0.00	C
ATOM	10893	OG1	THR	1146	6.212	114.535	59.882	1.00	0.00	O
ATOM	10894	HG1	THR	1146	5.447	113.998	60.052	1.00	0.00	H
ATOM	10895	CG2	THR	1146	7.206	116.753	59.977	1.00	0.00	C
ATOM	10896	C	THR	1146	4.360	115.235	61.959	1.00	0.00	C
ATOM	10897	O	THR	1146	3.304	115.613	61.457	1.00	0.00	O
ATOM	10898	N	ILE	1147	4.438	114.108	62.670	1.00	0.00	N
ATOM	10899	HN	ILE	1147	5.348	113.841	63.046	1.00	0.00	H
ATOM	10900	CA	ILE	1147	3.320	113.250	62.938	1.00	0.00	C
ATOM	10901	CB	ILE	1147	3.702	111.942	63.554	1.00	0.00	C
ATOM	10902	CG1	ILE	1147	2.544	110.944	63.390	1.00	0.00	C
ATOM	10903	CG2	ILE	1147	4.131	112.189	65.007	1.00	0.00	C
ATOM	10904	CD1	ILE	1147	2.974	109.490	63.551	1.00	0.00	C
ATOM	10905	C	ILE	1147	2.249	113.928	63.762	1.00	0.00	C
ATOM	10906	O	ILE	1147	1.103	113.479	63.779	1.00	0.00	O
ATOM	10907	N	GLN	1148	2.587	115.015	64.482	1.00	0.00	N
ATOM	10908	HN	GLN	1148	3.524	115.398	64.354	1.00	0.00	H
ATOM	10909	CA	GLN	1148	1.714	115.674	65.422	1.00	0.00	C
ATOM	10910	CB	GLN	1148	2.252	117.050	65.846	1.00	0.00	C
ATOM	10911	CG	GLN	1148	3.304	117.033	66.952	1.00	0.00	C
ATOM	10912	CD	GLN	1148	2.563	117.405	68.225	1.00	0.00	C
ATOM	10913	OE1	GLN	1148	1.508	116.851	68.530	1.00	0.00	O
ATOM	10914	NE2	GLN	1148	3.119	118.392	68.977	1.00	0.00	N
ATOM	10915	1HE2	GLN	1148	2.621	118.642	69.832	1.00	0.00	H
ATOM	10916	2HE2	GLN	1148	3.994	118.851	68.724	1.00	0.00	H
ATOM	10917	C	GLN	1148	0.347	115.936	64.852	1.00	0.00	C
ATOM	10918	O	GLN	1148	-0.637	115.837	65.585	1.00	0.00	O
ATOM	10919	N	ASN	1149	0.214	116.308	63.567	1.00	0.00	N
ATOM	10920	HN	ASN	1149	1.029	116.404	62.961	1.00	0.00	H
ATOM	10921	CA	ASN	1149	-1.112	116.566	63.073	1.00	0.00	C
ATOM	10922	CB	ASN	1149	-1.078	117.377	61.760	1.00	0.00	C
ATOM	10923	CG	ASN	1149	-0.211	116.626	60.755	1.00	0.00	C
ATOM	10924	OD1	ASN	1149	0.281	115.534	61.032	1.00	0.00	O
ATOM	10925	ND2	ASN	1149	-0.006	117.233	59.555	1.00	0.00	N
ATOM	10926	1HD2	ASN	1149	-0.414	118.139	59.325	1.00	0.00	H
ATOM	10927	2HD2	ASN	1149	0.574	116.731	58.883	1.00	0.00	H
ATOM	10928	C	ASN	1149	-1.810	115.256	62.816	1.00	0.00	C
ATOM	10929	O	ASN	1149	-2.162	114.946	61.679	1.00	0.00	O
ATOM	10930	N	ALA	1150	-2.098	114.471	63.881	1.00	0.00	N
ATOM	10931	HN	ALA	1150	-1.872	114.784	64.825	1.00	0.00	H
ATOM	10932	CA	ALA	1150	-2.726	113.190	63.674	1.00	0.00	C
ATOM	10933	CB	ALA	1150	-1.834	111.994	64.051	1.00	0.00	C
ATOM	10934	C	ALA	1150	-3.974	113.095	64.501	1.00	0.00	C
ATOM	10935	O	ALA	1150	-4.057	113.667	65.587	1.00	0.00	O
ATOM	10936	N	ASP	1151	-5.017	112.424	63.959	1.00	0.00	N
ATOM	10937	HN	ASP	1151	-4.935	112.033	63.020	1.00	0.00	H
ATOM	10938	CA	ASP	1151	-6.240	112.258	64.697	1.00	0.00	C
ATOM	10939	CB	ASP	1151	-7.402	111.727	63.839	1.00	0.00	C
ATOM	10940	CG	ASP	1151	-7.856	112.858	62.928	1.00	0.00	C
ATOM	10941	OD1	ASP	1151	-7.140	113.892	62.867	1.00	0.00	O
ATOM	10942	OD2	ASP	1151	-8.928	112.706	62.282	1.00	0.00	O
ATOM	10943	C	ASP	1151	-6.046	111.305	65.837	1.00	0.00	C
ATOM	10944	O	ASP	1151	-6.223	111.665	67.000	1.00	0.00	O
ATOM	10945	N	LEU	1152	-5.632	110.062	65.522	1.00	0.00	N
ATOM	10946	HN	LEU	1152	-5.449	109.833	64.545	1.00	0.00	H
ATOM	10947	CA	LEU	1152	-5.441	109.050	66.523	1.00	0.00	C
ATOM	10948	CB	LEU	1152	-6.376	107.842	66.341	1.00	0.00	C
ATOM	10949	CG	LEU	1152	-6.078	106.672	67.297	1.00	0.00	C

ATOM	10950	CD1	LEU	1152	-6.312	107.061	68.765	1.00	0.00	C
ATOM	10951	CD2	LEU	1152	-6.839	105.405	66.872	1.00	0.00	C
ATOM	10952	C	LEU	1152	-4.061	108.527	66.340	1.00	0.00	C
ATOM	10953	O	LEU	1152	-3.778	107.848	65.355	1.00	0.00	O
ATOM	10954	N	ILE	1153	-3.178	108.786	67.317	1.00	0.00	N
ATOM	10955	HN	ILE	1153	-3.482	109.277	68.158	1.00	0.00	H
ATOM	10956	CA	ILE	1153	-1.812	108.377	67.187	1.00	0.00	C
ATOM	10957	CB	ILE	1153	-0.857	109.368	67.791	1.00	0.00	C
ATOM	10958	CG1	ILE	1153	-0.988	110.742	67.110	1.00	0.00	C
ATOM	10959	CG2	ILE	1153	0.557	108.769	67.716	1.00	0.00	C
ATOM	10960	CD1	ILE	1153	-2.303	111.465	67.406	1.00	0.00	C
ATOM	10961	C	ILE	1153	-1.660	107.125	67.982	1.00	0.00	C
ATOM	10962	O	ILE	1153	-1.807	107.136	69.203	1.00	0.00	O
ATOM	10963	N	VAL	1154	-1.353	106.008	67.294	1.00	0.00	N
ATOM	10964	HN	VAL	1154	-1.212	106.052	66.285	1.00	0.00	H
ATOM	10965	CA	VAL	1154	-1.225	104.758	67.982	1.00	0.00	C
ATOM	10966	CB	VAL	1154	-1.917	103.618	67.289	1.00	0.00	C
ATOM	10967	CG1	VAL	1154	-1.612	102.338	68.082	1.00	0.00	C
ATOM	10968	CG2	VAL	1154	-3.417	103.930	67.146	1.00	0.00	C
ATOM	10969	C	VAL	1154	0.220	104.390	68.029	1.00	0.00	C
ATOM	10970	O	VAL	1154	0.910	104.372	67.010	1.00	0.00	O
ATOM	10971	N	VAL	1155	0.713	104.083	69.243	1.00	0.00	N
ATOM	10972	HN	VAL	1155	0.112	104.146	70.064	1.00	0.00	H
ATOM	10973	CA	VAL	1155	2.076	103.668	69.390	1.00	0.00	C
ATOM	10974	CB	VAL	1155	2.735	104.197	70.637	1.00	0.00	C
ATOM	10975	CG1	VAL	1155	4.161	103.625	70.743	1.00	0.00	C
ATOM	10976	CG2	VAL	1155	2.683	105.733	70.607	1.00	0.00	C
ATOM	10977	C	VAL	1155	2.055	102.191	69.512	1.00	0.00	C
ATOM	10978	O	VAL	1155	1.593	101.639	70.512	1.00	0.00	O
ATOM	10979	N	PHE	1156	2.565	101.488	68.490	1.00	0.00	N
ATOM	10980	HN	PHE	1156	2.950	101.918	67.649	1.00	0.00	H
ATOM	10981	CA	PHE	1156	2.515	100.078	68.699	1.00	0.00	C
ATOM	10982	CB	PHE	1156	1.763	99.251	67.626	1.00	0.00	C
ATOM	10983	CG	PHE	1156	2.567	99.044	66.391	1.00	0.00	C
ATOM	10984	CD1	PHE	1156	3.380	97.938	66.306	1.00	0.00	C
ATOM	10985	CD2	PHE	1156	2.503	99.914	65.327	1.00	0.00	C
ATOM	10986	CE1	PHE	1156	4.132	97.704	65.182	1.00	0.00	C
ATOM	10987	CE2	PHE	1156	3.254	99.685	64.198	1.00	0.00	C
ATOM	10988	CZ	PHE	1156	4.070	98.580	64.126	1.00	0.00	C
ATOM	10989	C	PHE	1156	3.910	99.577	68.849	1.00	0.00	C
ATOM	10990	O	PHE	1156	4.839	100.062	68.205	1.00	0.00	O
ATOM	10991	N	GLN	1157	4.096	98.647	69.806	1.00	0.00	N
ATOM	10992	HN	GLN	1157	3.350	98.448	70.473	1.00	0.00	H
ATOM	10993	CA	GLN	1157	5.331	97.940	69.891	1.00	0.00	C
ATOM	10994	CB	GLN	1157	5.578	97.236	71.234	1.00	0.00	C
ATOM	10995	CG	GLN	1157	6.913	96.487	71.291	1.00	0.00	C
ATOM	10996	CD	GLN	1157	8.047	97.505	71.206	1.00	0.00	C
ATOM	10997	OE1	GLN	1157	7.897	98.579	70.624	1.00	0.00	O
ATOM	10998	NE2	GLN	1157	9.220	97.160	71.800	1.00	0.00	N
ATOM	10999	1HE2	GLN	1157	9.978	97.840	71.743	1.00	0.00	H
ATOM	11000	2HE2	GLN	1157	9.344	96.270	72.282	1.00	0.00	H
ATOM	11001	C	GLN	1157	5.036	96.918	68.868	1.00	0.00	C
ATOM	11002	O	GLN	1157	3.855	96.646	68.681	1.00	0.00	O
ATOM	11003	N	ASN	1158	6.048	96.286	68.247	1.00	0.00	N
ATOM	11004	HN	ASN	1158	6.987	96.341	68.641	1.00	0.00	H
ATOM	11005	CA	ASN	1158	5.834	95.531	67.035	1.00	0.00	C
ATOM	11006	CB	ASN	1158	7.025	94.621	66.679	1.00	0.00	C
ATOM	11007	CG	ASN	1158	8.107	95.454	66.007	1.00	0.00	C
ATOM	11008	OD1	ASN	1158	7.912	95.969	64.907	1.00	0.00	O
ATOM	11009	ND2	ASN	1158	9.284	95.580	66.676	1.00	0.00	N
ATOM	11010	1HD2	ASN	1158	9.446	95.153	67.588	1.00	0.00	H
ATOM	11011	2HD2	ASN	1158	10.009	96.138	66.226	1.00	0.00	H
ATOM	11012	C	ASN	1158	4.604	94.653	67.053	1.00	0.00	C
ATOM	11013	O	ASN	1158	3.658	94.901	66.325	1.00	0.00	O
ATOM	11014	N	GLY	1159	4.514	93.632	67.892	1.00	0.00	N
ATOM	11015	HN	GLY	1159	5.280	93.449	68.540	1.00	0.00	H
ATOM	11016	CA	GLY	1159	3.355	92.775	67.907	1.00	0.00	C
ATOM	11017	C	GLY	1159	2.149	93.376	68.574	1.00	0.00	C
ATOM	11018	O	GLY	1159	1.019	93.042	68.220	1.00	0.00	O
ATOM	11019	N	ARG	1160	2.358	94.219	69.606	1.00	0.00	N
ATOM	11020	HN	ARG	1160	3.305	94.544	69.803	1.00	0.00	H
ATOM	11021	CA	ARG	1160	1.270	94.669	70.435	1.00	0.00	C
ATOM	11022	CB	ARG	1160	1.380	94.022	71.823	1.00	0.00	C
ATOM	11023	CG	ARG	1160	2.813	94.089	72.362	1.00	0.00	C

ATOM	11024	CD	ARG	1160	3.318	95.493	72.686	1.00	0.00	C
ATOM	11025	NE	ARG	1160	3.349	95.621	74.172	1.00	0.00	N
ATOM	11026	HE	ARG	1160	4.214	95.429	74.677	1.00	0.00	H
ATOM	11027	CZ	ARG	1160	2.232	95.993	74.863	1.00	0.00	C
ATOM	11028	NH1	ARG	1160	1.075	96.268	74.192	1.00	0.00	N
ATOM	11029	1HH1	ARG	1160	1.044	96.207	73.174	1.00	0.00	H
ATOM	11030	2HH1	ARG	1160	0.240	96.546	74.708	1.00	0.00	H
ATOM	11031	NH2	ARG	1160	2.273	96.074	76.225	1.00	0.00	N
ATOM	11032	1HH2	ARG	1160	3.137	95.869	76.726	1.00	0.00	H
ATOM	11033	2HH2	ARG	1160	1.438	96.352	76.741	1.00	0.00	H
ATOM	11034	C	ARG	1160	1.194	96.166	70.561	1.00	0.00	C
ATOM	11035	O	ARG	1160	2.208	96.860	70.586	1.00	0.00	O
ATOM	11036	N	VAL	1161	-0.047	96.705	70.662	1.00	0.00	N
ATOM	11037	HN	VAL	1161	-0.862	96.093	70.686	1.00	0.00	H
ATOM	11038	CA	VAL	1161	-0.226	98.131	70.736	1.00	0.00	C
ATOM	11039	CB	VAL	1161	-1.477	98.586	70.036	1.00	0.00	C
ATOM	11040	CG1	VAL	1161	-2.676	97.812	70.610	1.00	0.00	C
ATOM	11041	CG2	VAL	1161	-1.599	100.111	70.178	1.00	0.00	C
ATOM	11042	C	VAL	1161	-0.297	98.553	72.178	1.00	0.00	C
ATOM	11043	O	VAL	1161	-1.219	98.180	72.903	1.00	0.00	O
ATOM	11044	N	LYS	1162	0.750	99.264	72.649	1.00	0.00	N
ATOM	11045	HN	LYS	1162	1.524	99.471	72.017	1.00	0.00	H
ATOM	11046	CA	LYS	1162	0.820	99.741	74.001	1.00	0.00	C
ATOM	11047	CB	LYS	1162	2.258	99.855	74.520	1.00	0.00	C
ATOM	11048	CG	LYS	1162	2.286	99.928	76.044	1.00	0.00	C
ATOM	11049	CD	LYS	1162	3.644	99.610	76.661	1.00	0.00	C
ATOM	11050	CE	LYS	1162	3.543	99.361	78.163	1.00	0.00	C
ATOM	11051	NZ	LYS	1162	2.604	98.245	78.417	1.00	0.00	N
ATOM	11052	HZ1	LYS	1162	2.536	98.079	79.421	1.00	0.00	H
ATOM	11053	HZ2	LYS	1162	2.860	97.402	77.903	1.00	0.00	H
ATOM	11054	HZ3	LYS	1162	1.691	98.405	77.991	1.00	0.00	H
ATOM	11055	C	LYS	1162	0.122	101.052	74.278	1.00	0.00	C
ATOM	11056	O	LYS	1162	-0.543	101.193	75.303	1.00	0.00	O
ATOM	11057	N	GLU	1163	0.258	102.064	73.393	1.00	0.00	N
ATOM	11058	HN	GLU	1163	0.716	101.913	72.494	1.00	0.00	H
ATOM	11059	CA	GLU	1163	-0.259	103.361	73.747	1.00	0.00	C
ATOM	11060	CB	GLU	1163	0.844	104.387	74.053	1.00	0.00	C
ATOM	11061	CG	GLU	1163	1.663	104.045	75.296	1.00	0.00	C
ATOM	11062	CD	GLU	1163	2.862	104.977	75.332	1.00	0.00	C
ATOM	11063	OE1	GLU	1163	2.667	106.212	75.172	1.00	0.00	O
ATOM	11064	OE2	GLU	1163	3.995	104.459	75.520	1.00	0.00	O
ATOM	11065	C	GLU	1163	-1.023	103.919	72.594	1.00	0.00	C
ATOM	11066	O	GLU	1163	-0.990	103.370	71.494	1.00	0.00	O
ATOM	11067	N	HIS	1164	-1.784	105.007	72.848	1.00	0.00	N
ATOM	11068	HN	HIS	1164	-1.872	105.353	73.803	1.00	0.00	H
ATOM	11069	CA	HIS	1164	-2.468	105.677	71.780	1.00	0.00	C
ATOM	11070	ND1	HIS	1164	-5.785	104.730	71.687	1.00	0.00	N
ATOM	11071	HD1	HIS	1164	-6.071	105.611	71.261	1.00	0.00	H
ATOM	11072	CG	HIS	1164	-4.528	104.164	71.647	1.00	0.00	C
ATOM	11073	CB	HIS	1164	-3.363	104.765	70.921	1.00	0.00	C
ATOM	11074	NE2	HIS	1164	-5.905	102.822	72.827	1.00	0.00	N
ATOM	11075	HE2	HIS	1164	-6.261	102.043	73.381	1.00	0.00	H
ATOM	11076	CD2	HIS	1164	-4.619	103.004	72.348	1.00	0.00	C
ATOM	11077	CE1	HIS	1164	-6.567	103.884	72.405	1.00	0.00	C
ATOM	11078	C	HIS	1164	-3.304	106.786	72.341	1.00	0.00	C
ATOM	11079	O	HIS	1164	-3.566	106.837	73.543	1.00	0.00	O
ATOM	11080	N	GLY	1165	-3.735	107.717	71.460	1.00	0.00	N
ATOM	11081	HN	GLY	1165	-3.483	107.622	70.476	1.00	0.00	H
ATOM	11082	CA	GLY	1165	-4.538	108.836	71.871	1.00	0.00	C
ATOM	11083	C	GLY	1165	-4.040	110.048	71.136	1.00	0.00	C
ATOM	11084	O	GLY	1165	-3.460	109.930	70.058	1.00	0.00	O
ATOM	11085	N	THR	1166	-4.280	111.255	71.694	1.00	0.00	N
ATOM	11086	HN	THR	1166	-4.799	111.308	72.571	1.00	0.00	H
ATOM	11087	CA	THR	1166	-3.815	112.468	71.071	1.00	0.00	C
ATOM	11088	CB	THR	1166	-4.673	113.665	71.358	1.00	0.00	C
ATOM	11089	OG1	THR	1166	-4.151	114.803	70.691	1.00	0.00	O
ATOM	11090	HG1	THR	1166	-4.108	114.658	69.753	1.00	0.00	H
ATOM	11091	CG2	THR	1166	-4.742	113.900	72.875	1.00	0.00	C
ATOM	11092	C	THR	1166	-2.417	112.745	71.546	1.00	0.00	C
ATOM	11093	O	THR	1166	-1.989	112.205	72.563	1.00	0.00	O
ATOM	11094	N	HIS	1167	-1.675	113.628	70.836	1.00	0.00	N
ATOM	11095	HN	HIS	1167	-2.112	114.170	70.091	1.00	0.00	H
ATOM	11096	CA	HIS	1167	-0.273	113.810	71.122	1.00	0.00	C
ATOM	11097	ND1	HIS	1167	2.567	115.193	71.594	1.00	0.00	N

ATOM	11098	HD1	HIS	1167	2.133	115.510	72.461	1.00	0.00	H
ATOM	11099	CG	HIS	1167	1.917	114.845	70.427	1.00	0.00	C
ATOM	11100	CB	HIS	1167	0.424	114.867	70.247	1.00	0.00	C
ATOM	11101	NE2	HIS	1167	4.144	114.611	70.139	1.00	0.00	N
ATOM	11102	HE2	HIS	1167	5.053	114.415	69.719	1.00	0.00	H
ATOM	11103	CD2	HIS	1167	2.897	114.494	69.550	1.00	0.00	C
ATOM	11104	CE1	HIS	1167	3.895	115.032	71.364	1.00	0.00	C
ATOM	11105	C	HIS	1167	-0.030	114.229	72.538	1.00	0.00	C
ATOM	11106	O	HIS	1167	0.702	113.553	73.258	1.00	0.00	O
ATOM	11107	N	GLN	1168	-0.659	115.325	72.998	1.00	0.00	N
ATOM	11108	HN	GLN	1168	-1.329	115.814	72.405	1.00	0.00	H
ATOM	11109	CA	GLN	1168	-0.388	115.808	74.324	1.00	0.00	C
ATOM	11110	CB	GLN	1168	-1.161	117.085	74.708	1.00	0.00	C
ATOM	11111	CG	GLN	1168	-2.677	116.913	74.866	1.00	0.00	C
ATOM	11112	CD	GLN	1168	-3.339	116.969	73.499	1.00	0.00	C
ATOM	11113	OE1	GLN	1168	-3.124	116.106	72.654	1.00	0.00	O
ATOM	11114	NE2	GLN	1168	-4.175	118.017	73.271	1.00	0.00	N
ATOM	11115	1HE2	GLN	1168	-4.354	118.735	73.974	1.00	0.00	H
ATOM	11116	2HE2	GLN	1168	-4.619	118.055	72.354	1.00	0.00	H
ATOM	11117	C	GLN	1168	-0.816	114.747	75.276	1.00	0.00	C
ATOM	11118	O	GLN	1168	-0.197	114.543	76.320	1.00	0.00	O
ATOM	11119	N	GLN	1169	-1.911	114.049	74.934	1.00	0.00	N
ATOM	11120	HN	GLN	1169	-2.381	114.259	74.053	1.00	0.00	H
ATOM	11121	CA	GLN	1169	-2.433	113.018	75.776	1.00	0.00	C
ATOM	11122	CB	GLN	1169	-3.705	112.388	75.178	1.00	0.00	C
ATOM	11123	CG	GLN	1169	-4.429	111.384	76.078	1.00	0.00	C
ATOM	11124	CD	GLN	1169	-5.655	110.888	75.318	1.00	0.00	C
ATOM	11125	OE1	GLN	1169	-6.191	111.582	74.455	1.00	0.00	O
ATOM	11126	NE2	GLN	1169	-6.117	109.652	75.646	1.00	0.00	N
ATOM	11127	1HE2	GLN	1169	-5.673	109.077	76.361	1.00	0.00	H
ATOM	11128	2HE2	GLN	1169	-6.937	109.320	75.138	1.00	0.00	H
ATOM	11129	C	GLN	1169	-1.379	111.963	75.897	1.00	0.00	C
ATOM	11130	O	GLN	1169	-1.143	111.440	76.983	1.00	0.00	O
ATOM	11131	N	LEU	1170	-0.703	111.642	74.777	1.00	0.00	N
ATOM	11132	HN	LEU	1170	-0.945	112.118	73.908	1.00	0.00	H
ATOM	11133	CA	LEU	1170	0.345	110.657	74.754	1.00	0.00	C
ATOM	11134	CB	LEU	1170	0.922	110.460	73.338	1.00	0.00	C
ATOM	11135	CG	LEU	1170	0.181	109.452	72.436	1.00	0.00	C
ATOM	11136	CD1	LEU	1170	0.658	108.022	72.713	1.00	0.00	C
ATOM	11137	CD2	LEU	1170	-1.341	109.546	72.581	1.00	0.00	C
ATOM	11138	C	LEU	1170	1.478	111.093	75.627	1.00	0.00	C
ATOM	11139	O	LEU	1170	2.001	110.310	76.420	1.00	0.00	O
ATOM	11140	N	LEU	1171	1.880	112.369	75.513	1.00	0.00	N
ATOM	11141	HN	LEU	1171	1.402	112.991	74.860	1.00	0.00	H
ATOM	11142	CA	LEU	1171	2.970	112.869	76.295	1.00	0.00	C
ATOM	11143	CB	LEU	1171	3.253	114.350	76.007	1.00	0.00	C
ATOM	11144	CG	LEU	1171	4.417	114.934	76.822	1.00	0.00	C
ATOM	11145	CD1	LEU	1171	5.744	114.245	76.468	1.00	0.00	C
ATOM	11146	CD2	LEU	1171	4.483	116.460	76.663	1.00	0.00	C
ATOM	11147	C	LEU	1171	2.531	112.747	77.716	1.00	0.00	C
ATOM	11148	O	LEU	1171	3.322	112.435	78.605	1.00	0.00	O
ATOM	11149	N	ALA	1172	1.224	112.964	77.948	1.00	0.00	N
ATOM	11150	HN	ALA	1172	0.607	113.184	77.166	1.00	0.00	H
ATOM	11151	CA	ALA	1172	0.684	112.892	79.270	1.00	0.00	C
ATOM	11152	CB	ALA	1172	-0.843	113.071	79.300	1.00	0.00	C
ATOM	11153	C	ALA	1172	0.991	111.521	79.770	1.00	0.00	C
ATOM	11154	O	ALA	1172	1.361	111.354	80.930	1.00	0.00	O
ATOM	11155	N	GLN	1173	0.847	110.489	78.913	1.00	0.00	N
ATOM	11156	HN	GLN	1173	0.468	110.615	77.974	1.00	0.00	H
ATOM	11157	CA	GLN	1173	1.257	109.207	79.399	1.00	0.00	C
ATOM	11158	CB	GLN	1173	0.689	107.979	78.658	1.00	0.00	C
ATOM	11159	CG	GLN	1173	-0.796	107.696	78.901	1.00	0.00	C
ATOM	11160	CD	GLN	1173	-1.566	108.055	77.642	1.00	0.00	C
ATOM	11161	OE1	GLN	1173	-2.099	109.155	77.514	1.00	0.00	O
ATOM	11162	NE2	GLN	1173	-1.628	107.093	76.683	1.00	0.00	N
ATOM	11163	1HE2	GLN	1173	-2.145	107.334	75.837	1.00	0.00	H
ATOM	11164	2HE2	GLN	1173	-1.186	106.180	76.789	1.00	0.00	H
ATOM	11165	C	GLN	1173	2.734	109.162	79.211	1.00	0.00	C
ATOM	11166	O	GLN	1173	3.237	108.568	78.259	1.00	0.00	O
ATOM	11167	N	LYS	1174	3.474	109.771	80.153	1.00	0.00	N
ATOM	11168	HN	LYS	1174	3.026	110.201	80.963	1.00	0.00	H
ATOM	11169	CA	LYS	1174	4.895	109.810	80.008	1.00	0.00	C
ATOM	11170	CB	LYS	1174	5.623	110.511	81.167	1.00	0.00	C
ATOM	11171	CG	LYS	1174	5.065	111.892	81.509	1.00	0.00	C

ATOM	11172	CD	LYS	1174	3.724	111.800	82.241	1.00	0.00	C
ATOM	11173	CE	LYS	1174	3.113	113.148	82.625	1.00	0.00	C
ATOM	11174	NZ	LYS	1174	2.731	113.896	81.408	1.00	0.00	N
ATOM	11175	HZ1	LYS	1174	2.323	114.795	81.664	1.00	0.00	H
ATOM	11176	HZ2	LYS	1174	2.112	113.354	80.805	1.00	0.00	H
ATOM	11177	HZ3	LYS	1174	3.514	114.001	80.763	1.00	0.00	H
ATOM	11178	C	LYS	1174	5.335	108.390	80.018	1.00	0.00	C
ATOM	11179	O	LYS	1174	4.922	107.608	80.875	1.00	0.00	O
ATOM	11180	N	GLY	1175	6.193	108.016	79.055	1.00	0.00	N
ATOM	11181	HN	GLY	1175	6.548	108.691	78.378	1.00	0.00	H
ATOM	11182	CA	GLY	1175	6.594	106.648	79.006	1.00	0.00	C
ATOM	11183	C	GLY	1175	7.202	106.385	77.669	1.00	0.00	C
ATOM	11184	O	GLY	1175	8.159	107.043	77.267	1.00	0.00	O
ATOM	11185	N	ILE	1176	6.665	105.379	76.954	1.00	0.00	N
ATOM	11186	HN	ILE	1176	5.830	104.901	77.293	1.00	0.00	H
ATOM	11187	CA	ILE	1176	7.267	104.980	75.716	1.00	0.00	C
ATOM	11188	CB	ILE	1176	6.631	103.739	75.168	1.00	0.00	C
ATOM	11189	CG1	ILE	1176	6.839	102.607	76.184	1.00	0.00	C
ATOM	11190	CG2	ILE	1176	7.228	103.429	73.785	1.00	0.00	C
ATOM	11191	CD1	ILE	1176	5.948	101.398	75.941	1.00	0.00	C
ATOM	11192	C	ILE	1176	7.197	106.059	74.677	1.00	0.00	C
ATOM	11193	O	ILE	1176	8.233	106.516	74.201	1.00	0.00	O
ATOM	11194	N	TYR	1177	5.995	106.581	74.374	1.00	0.00	N
ATOM	11195	HN	TYR	1177	5.174	106.276	74.897	1.00	0.00	H
ATOM	11196	CA	TYR	1177	5.839	107.560	73.329	1.00	0.00	C
ATOM	11197	CB	TYR	1177	4.384	108.043	73.222	1.00	0.00	C
ATOM	11198	CG	TYR	1177	4.300	109.028	72.112	1.00	0.00	C
ATOM	11199	CD1	TYR	1177	4.134	108.598	70.817	1.00	0.00	C
ATOM	11200	CD2	TYR	1177	4.383	110.376	72.367	1.00	0.00	C
ATOM	11201	CE1	TYR	1177	4.053	109.503	69.786	1.00	0.00	C
ATOM	11202	CE2	TYR	1177	4.302	111.285	71.341	1.00	0.00	C
ATOM	11203	CZ	TYR	1177	4.137	110.848	70.050	1.00	0.00	C
ATOM	11204	OH	TYR	1177	4.053	111.781	68.996	1.00	0.00	O
ATOM	11205	HH	TYR	1177	4.111	112.711	69.179	1.00	0.00	H
ATOM	11206	C	TYR	1177	6.698	108.729	73.696	1.00	0.00	C
ATOM	11207	O	TYR	1177	7.288	109.386	72.840	1.00	0.00	O
ATOM	11208	N	PHE	1178	6.763	109.020	75.003	1.00	0.00	N
ATOM	11209	HN	PHE	1178	6.232	108.438	75.651	1.00	0.00	H
ATOM	11210	CA	PHE	1178	7.535	110.101	75.543	1.00	0.00	C
ATOM	11211	CB	PHE	1178	7.414	110.102	77.079	1.00	0.00	C
ATOM	11212	CG	PHE	1178	8.029	111.323	77.665	1.00	0.00	C
ATOM	11213	CD1	PHE	1178	9.394	111.488	77.684	1.00	0.00	C
ATOM	11214	CD2	PHE	1178	7.225	112.285	78.231	1.00	0.00	C
ATOM	11215	CE1	PHE	1178	9.947	112.617	78.241	1.00	0.00	C
ATOM	11216	CE2	PHE	1178	7.771	113.414	78.790	1.00	0.00	C
ATOM	11217	CZ	PHE	1178	9.136	113.581	78.790	1.00	0.00	C
ATOM	11218	C	PHE	1178	8.979	109.856	75.202	1.00	0.00	C
ATOM	11219	O	PHE	1178	9.665	110.714	74.648	1.00	0.00	O
ATOM	11220	N	SER	1179	9.473	108.640	75.484	1.00	0.00	N
ATOM	11221	HN	SER	1179	8.866	107.920	75.875	1.00	0.00	H
ATOM	11222	CA	SER	1179	10.854	108.357	75.234	1.00	0.00	C
ATOM	11223	CB	SER	1179	11.255	106.930	75.648	1.00	0.00	C
ATOM	11224	OG	SER	1179	11.156	106.780	77.057	1.00	0.00	O
ATOM	11225	HG	SER	1179	11.404	105.899	77.313	1.00	0.00	H
ATOM	11226	C	SER	1179	11.077	108.481	73.762	1.00	0.00	C
ATOM	11227	O	SER	1179	12.189	108.733	73.310	1.00	0.00	O
ATOM	11228	N	MET	1180	10.029	108.273	72.953	1.00	0.00	N
ATOM	11229	HN	MET	1180	9.120	108.023	73.342	1.00	0.00	H
ATOM	11230	CA	MET	1180	10.197	108.405	71.535	1.00	0.00	C
ATOM	11231	CB	MET	1180	8.910	108.069	70.762	1.00	0.00	C
ATOM	11232	CG	MET	1180	8.416	106.638	70.981	1.00	0.00	C
ATOM	11233	SD	MET	1180	9.495	105.344	70.306	1.00	0.00	S
ATOM	11234	CE	MET	1180	8.654	104.002	71.194	1.00	0.00	C
ATOM	11235	C	MET	1180	10.512	109.830	71.219	1.00	0.00	C
ATOM	11236	O	MET	1180	11.400	110.121	70.419	1.00	0.00	O
ATOM	11237	N	VAL	1181	9.778	110.775	71.836	1.00	0.00	N
ATOM	11238	HN	VAL	1181	9.032	110.528	72.487	1.00	0.00	H
ATOM	11239	CA	VAL	1181	10.087	112.138	71.541	1.00	0.00	C
ATOM	11240	CB	VAL	1181	9.047	113.145	71.965	1.00	0.00	C
ATOM	11241	CG1	VAL	1181	7.850	112.980	71.016	1.00	0.00	C
ATOM	11242	CG2	VAL	1181	8.642	112.932	73.428	1.00	0.00	C
ATOM	11243	C	VAL	1181	11.441	112.419	72.103	1.00	0.00	C
ATOM	11244	O	VAL	1181	12.203	113.202	71.538	1.00	0.00	O
ATOM	11245	N	SER	1182	11.783	111.777	73.238	1.00	0.00	N

ATOM	11246	HN	SER	1182	11.123	111.139	73.683	1.00	0.00	H
ATOM	11247	CA	SER	1182	13.078	111.993	73.818	1.00	0.00	C
ATOM	11248	CB	SER	1182	13.224	111.461	75.263	1.00	0.00	C
ATOM	11249	OG	SER	1182	13.073	110.052	75.330	1.00	0.00	O
ATOM	11250	HG	SER	1182	13.163	109.725	76.218	1.00	0.00	H
ATOM	11251	C	SER	1182	14.203	111.444	72.945	1.00	0.00	C
ATOM	11252	O	SER	1182	15.228	112.106	72.801	1.00	0.00	O
ATOM	11253	N	VAL	1183	14.060	110.244	72.323	1.00	0.00	N
ATOM	11254	HN	VAL	1183	13.189	109.730	72.453	1.00	0.00	H
ATOM	11255	CA	VAL	1183	15.090	109.658	71.481	1.00	0.00	C
ATOM	11256	CB	VAL	1183	14.734	108.314	70.916	1.00	0.00	C
ATOM	11257	CG1	VAL	1183	13.533	108.461	69.969	1.00	0.00	C
ATOM	11258	CG2	VAL	1183	15.987	107.745	70.231	1.00	0.00	C
ATOM	11259	C	VAL	1183	15.238	110.619	70.345	1.00	0.00	C
ATOM	11260	O	VAL	1183	16.333	110.848	69.833	1.00	0.00	O
ATOM	11261	N	GLN	1184	14.102	111.227	69.956	1.00	0.00	N
ATOM	11262	HN	GLN	1184	13.251	111.017	70.478	1.00	0.00	H
ATOM	11263	CA	GLN	1184	14.000	112.147	68.864	1.00	0.00	C
ATOM	11264	CB	GLN	1184	12.550	112.609	68.681	1.00	0.00	C
ATOM	11265	CG	GLN	1184	12.347	113.592	67.536	1.00	0.00	C
ATOM	11266	CD	GLN	1184	10.866	113.922	67.527	1.00	0.00	C
ATOM	11267	OE1	GLN	1184	10.210	113.897	68.567	1.00	0.00	O
ATOM	11268	NE2	GLN	1184	10.321	114.227	66.320	1.00	0.00	N
ATOM	11269	1HE2	GLN	1184	10.865	114.248	65.457	1.00	0.00	H
ATOM	11270	2HE2	GLN	1184	9.325	114.449	66.314	1.00	0.00	H
ATOM	11271	C	GLN	1184	14.837	113.344	69.135	1.00	0.00	C
ATOM	11272	O	GLN	1184	15.527	113.832	68.242	1.00	0.00	O
ATOM	11273	N	ALA	1185	14.796	113.852	70.380	1.00	0.00	N
ATOM	11274	HN	ALA	1185	14.201	113.420	71.087	1.00	0.00	H
ATOM	11275	CA	ALA	1185	15.586	114.997	70.712	1.00	0.00	C
ATOM	11276	CB	ALA	1185	15.213	115.607	72.072	1.00	0.00	C
ATOM	11277	C	ALA	1185	17.026	114.508	70.797	1.00	0.00	C
ATOM	11278	O	ALA	1185	17.535	113.976	69.776	1.00	0.00	O
ATOM	11279	OXT	ALA	1185	17.639	114.660	71.888	1.00	0.00	O
HETATM	11280	C	LIG	1	10.292	76.541	19.108	1.00	0.00	C
HETATM	11281	C	LIG	1	9.085	76.959	19.970	1.00	0.00	C
HETATM	11282	C	LIG	1	8.742	78.453	19.910	1.00	0.00	C
HETATM	11283	C	LIG	1	8.741	79.137	21.269	1.00	0.00	C
HETATM	11284	C	LIG	1	10.947	77.737	18.388	1.00	0.00	C
HETATM	11285	C	LIG	1	10.205	78.225	17.138	1.00	0.00	C
HETATM	11286	C	LIG	1	11.181	78.668	16.057	1.00	0.00	C
HETATM	11287	C	LIG	1	9.917	75.469	18.094	1.00	0.00	C

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	29	39	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	56	49	55
CONECT	55	54		
CONECT	56	57	58	54
CONECT	57	56		
CONECT	58	59	56	66
CONECT	59	60	58	
CONECT	60	59	61	62
CONECT	61	60	63	
CONECT	62	60	64	
CONECT	63	61	65	
CONECT	64	62	65	
CONECT	65	63	64	
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	75	73
CONECT	75	74		
CONECT	76	80	77	74
CONECT	77	78	76	79
CONECT	78	77		
CONECT	79	77		
CONECT	80	81	82	76
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	110	116	107
CONECT	110	111	109	
CONECT	111	112	110	113
CONECT	112	111		
CONECT	113	111	115	114
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	172	168	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	193	191	
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	209	210
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	226	227	220
CONECT	226	225		
CONECT	227	229	225	228
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	268	267
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	275	276	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	293	290	
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	315	313	
CONECT	315	317	316	314
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	

CONNECT	324	323	325	
CONNECT	325	324	326	
CONNECT	326	325		
CONNECT	327	328	329	322
CONNECT	328	327		
CONNECT	329	331	330	327
CONNECT	330	329		
CONNECT	331	336	332	329
CONNECT	332	331	333	
CONNECT	333	332	334	
CONNECT	334	333	335	
CONNECT	335	334		
CONNECT	336	338	337	331
CONNECT	337	336		
CONNECT	338	340	339	336
CONNECT	339	338		
CONNECT	340	341	345	338
CONNECT	341	342	340	
CONNECT	342	343	344	341
CONNECT	343	342		
CONNECT	344	342		
CONNECT	345	346	340	347
CONNECT	346	345		
CONNECT	347	345	349	348
CONNECT	348	347		
CONNECT	349	347	353	350
CONNECT	350	349	351	352
CONNECT	351	350		
CONNECT	352	350		
CONNECT	353	354	349	355
CONNECT	354	353		
CONNECT	355	353	357	356
CONNECT	356	355		
CONNECT	357	365	355	358
CONNECT	358	357	359	
CONNECT	359	361	358	360
CONNECT	360	359	362	
CONNECT	361	363	359	
CONNECT	362	364	360	
CONNECT	363	361	364	
CONNECT	364	363	362	
CONNECT	365	367	366	357
CONNECT	366	365		
CONNECT	367	369	368	365
CONNECT	368	367		
CONNECT	369	370	367	
CONNECT	370	371	372	369
CONNECT	371	370		
CONNECT	372	374	370	373
CONNECT	373	372		
CONNECT	374	375	380	372
CONNECT	375	376	374	
CONNECT	376	377	375	
CONNECT	377	379	378	376
CONNECT	378	377		
CONNECT	379	377		
CONNECT	380	381	374	382
CONNECT	381	380		
CONNECT	382	380	384	383
CONNECT	383	382		
CONNECT	384	389	382	385
CONNECT	385	384	386	
CONNECT	386	385	387	
CONNECT	387	386	388	
CONNECT	388	387		
CONNECT	389	390	391	384
CONNECT	390	389		
CONNECT	391	393	389	392
CONNECT	392	391		
CONNECT	393	398	394	391
CONNECT	394	397	393	395
CONNECT	395	394	396	
CONNECT	396	395		
CONNECT	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	411	413	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	434	437
CONECT	437	436		
CONECT	438	439	445	436
CONECT	439	440	438	
CONECT	440	442	441	439
CONECT	441	440		
CONECT	442	443	444	440
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	475	474	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	481	483	
CONECT	483	482	484	485
CONECT	484	483		
CONECT	485	483		
CONECT	486	480	487	488
CONECT	487	486		
CONECT	488	486	489	490
CONECT	489	488		
CONECT	490	491	488	495
CONECT	491	492	490	
CONECT	492	491	494	493
CONECT	493	492		
CONECT	494	492		
CONECT	495	490	497	496
CONECT	496	495		
CONECT	497	495	498	499
CONECT	498	497		
CONECT	499	504	497	500
CONECT	500	499	501	
CONECT	501	500	503	502
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	511	509	
CONECT	511	512	510	
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	519	517	
CONECT	519	520	518	
CONECT	520	519		
CONECT	521	522	523	517
CONECT	522	521		
CONECT	523	525	521	524
CONECT	524	523		
CONECT	525	526	532	523
CONECT	526	527	525	
CONECT	527	528	529	526
CONECT	528	527		
CONECT	529	531	527	530
CONECT	530	529		
CONECT	531	529		
CONECT	532	525	533	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	546	548	
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	593	594	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	611	612	609
CONECT	611	610		
CONECT	612	614	610	613
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	675	677	
CONECT	677	679	676	678
CONECT	678	677		
CONECT	679	680	681	677
CONECT	680	679		
CONECT	681	679		
CONECT	682	675	684	683
CONECT	683	682		
CONECT	684	682	685	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	701	696
CONECT	696	695	697	
CONECT	697	696	698	
CONECT	698	697	699	700
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	719	716	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	729	725
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	748	745	747
CONECT	747	746		
CONECT	748	749	752	746
CONECT	749	751	750	748
CONECT	750	749		
CONECT	751	749		
CONECT	752	754	748	753
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	781	784	
CONECT	783	785	781	
CONECT	784	786	782	
CONECT	785	783	786	
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	795	793	
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	807	819	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	846	849	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	871	868	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	932	935
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	1010	1012	
CONECT	1012	1011	1013	1014
CONECT	1013	1012		
CONECT	1014	1012	1015	1018
CONECT	1015	1017	1014	1016
CONECT	1016	1015		
CONECT	1017	1015		
CONECT	1018	1014	1020	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	1032	1031	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
CONECT	1060	1061	1059	
CONECT	1061	1062	1060	
CONECT	1062	1063	1061	
CONECT	1063	1062	1064	

CONNECT 1064 1063 1065 1066 1067
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 1083 1085
CONNECT 1085 1086 1087 1084
CONNECT 1086 1085
CONNECT 1087 1091 1085 1088
CONNECT 1088 1087 1089 1090
CONNECT 1089 1088
CONNECT 1090 1088
CONNECT 1091 1093 1092 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 1098 1100
CONNECT 1100 1099 1101
CONNECT 1101 1102 1100
CONNECT 1102 1103 1101
CONNECT 1103 1104 1102 1106 1105
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 1113 1116
CONNECT 1115 1114
CONNECT 1116 1114 1117 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 1127 1124 1126
CONNECT 1126 1125 1128
CONNECT 1127 1129 1125
CONNECT 1128 1130 1126
CONNECT 1129 1127 1130
CONNECT 1130 1129 1128
CONNECT 1131 1123 1132 1133
CONNECT 1132 1131
CONNECT 1133 1131 1134 1135
CONNECT 1134 1133
CONNECT 1135 1133 1143 1136

CONECT 1136 1135 1137
CONECT 1137 1139 1136 1138
CONECT 1138 1137 1140
CONECT 1139 1141 1137
CONECT 1140 1142 1138
CONECT 1141 1139 1142
CONECT 1142 1141 1140
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 1165 1162 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 1190 1193 1192
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 1203 1205
CONECT 1205 1204
CONECT 1206 1207 1208 1204
CONECT 1207 1206
CONECT 1208 1206
CONECT 1209 1201 1210 1211

CONNECT 1210 1209
CONNECT 1211 1209 1212 1213
CONNECT 1212 1211
CONNECT 1213 1211 1219 1214
CONNECT 1214 1213 1215
CONNECT 1215 1214 1216
CONNECT 1216 1218 1217 1215
CONNECT 1217 1216
CONNECT 1218 1216
CONNECT 1219 1220 1213 1221
CONNECT 1220 1219
CONNECT 1221 1219 1223 1222
CONNECT 1222 1221
CONNECT 1223 1228 1221 1224
CONNECT 1224 1226 1223 1225
CONNECT 1225 1224 1227
CONNECT 1226 1224
CONNECT 1227 1225
CONNECT 1228 1230 1229 1223
CONNECT 1229 1228
CONNECT 1230 1232 1231 1228
CONNECT 1231 1230
CONNECT 1232 1233 1230
CONNECT 1233 1234 1232 1235
CONNECT 1234 1233
CONNECT 1235 1233 1237 1236
CONNECT 1236 1235
CONNECT 1237 1235 1249 1238
CONNECT 1238 1237 1239
CONNECT 1239 1238 1241 1240
CONNECT 1240 1239 1244 1245
CONNECT 1241 1239 1242
CONNECT 1242 1241 1243 1244
CONNECT 1243 1242
CONNECT 1244 1242 1240 1246
CONNECT 1245 1240 1247
CONNECT 1246 1244 1248
CONNECT 1247 1245 1248
CONNECT 1248 1246 1247
CONNECT 1249 1237 1250 1251
CONNECT 1250 1249
CONNECT 1251 1249 1252 1253
CONNECT 1252 1251
CONNECT 1253 1261 1251 1254
CONNECT 1254 1253 1255
CONNECT 1255 1254 1257 1256
CONNECT 1256 1255 1258
CONNECT 1257 1255 1259
CONNECT 1258 1256 1260
CONNECT 1259 1257 1260
CONNECT 1260 1259 1258
CONNECT 1261 1263 1262 1253
CONNECT 1262 1261
CONNECT 1263 1265 1264 1261
CONNECT 1264 1263
CONNECT 1265 1270 1266 1263
CONNECT 1266 1265 1267
CONNECT 1267 1266 1269 1268
CONNECT 1268 1267
CONNECT 1269 1267
CONNECT 1270 1272 1271 1265
CONNECT 1271 1270
CONNECT 1272 1274 1273 1270
CONNECT 1273 1272
CONNECT 1274 1275 1278 1272
CONNECT 1275 1276 1277 1274
CONNECT 1276 1275
CONNECT 1277 1275
CONNECT 1278 1280 1274 1279
CONNECT 1279 1278
CONNECT 1280 1281 1282 1278
CONNECT 1281 1280
CONNECT 1282 1280 1286 1291
CONNECT 1283 1290 1284 1285

CONNECT 1284 1283
CONNECT 1285 1283 1289 1286
CONNECT 1286 1285 1282
CONNECT 1287 1290 1288 1289
CONNECT 1288 1287
CONNECT 1289 1287 1285
CONNECT 1290 1283 1287
CONNECT 1291 1282 1293 1292
CONNECT 1292 1291
CONNECT 1293 1294 1291 1295
CONNECT 1294 1293
CONNECT 1295 1293 1296 1300
CONNECT 1296 1297 1295
CONNECT 1297 1299 1298 1296
CONNECT 1298 1297
CONNECT 1299 1297
CONNECT 1300 1295 1302 1301
CONNECT 1301 1300
CONNECT 1302 1303 1300 1304
CONNECT 1303 1302
CONNECT 1304 1302 1308 1305
CONNECT 1305 1304 1307 1306
CONNECT 1306 1305
CONNECT 1307 1305
CONNECT 1308 1304 1309 1310
CONNECT 1309 1308
CONNECT 1310 1308 1312 1311
CONNECT 1311 1310
CONNECT 1312 1313 1310
CONNECT 1313 1315 1314 1312
CONNECT 1314 1313
CONNECT 1315 1317 1316 1313
CONNECT 1316 1315
CONNECT 1317 1318 1323 1315
CONNECT 1318 1319 1317
CONNECT 1319 1320 1318
CONNECT 1320 1322 1321 1319
CONNECT 1321 1320
CONNECT 1322 1320
CONNECT 1323 1324 1317 1325
CONNECT 1324 1323
CONNECT 1325 1323 1327 1326
CONNECT 1326 1325
CONNECT 1327 1332 1325 1328
CONNECT 1328 1327 1329
CONNECT 1329 1328 1331 1330
CONNECT 1330 1329
CONNECT 1331 1329
CONNECT 1332 1333 1327 1334
CONNECT 1333 1332
CONNECT 1334 1332 1336 1335
CONNECT 1335 1334
CONNECT 1336 1343 1334 1337
CONNECT 1337 1336 1338
CONNECT 1338 1337 1340 1339
CONNECT 1339 1338
CONNECT 1340 1342 1341 1338
CONNECT 1341 1340
CONNECT 1342 1340
CONNECT 1343 1344 1345 1336
CONNECT 1344 1343
CONNECT 1345 1347 1343 1346
CONNECT 1346 1345
CONNECT 1347 1352 1348 1345
CONNECT 1348 1351 1347 1349
CONNECT 1349 1348 1350
CONNECT 1350 1349
CONNECT 1351 1348
CONNECT 1352 1353 1354 1347
CONNECT 1353 1352
CONNECT 1354 1356 1352 1355
CONNECT 1355 1354
CONNECT 1356 1357 1369 1354
CONNECT 1357 1358 1356

CONNECT 1358 1359 1357
CONNECT 1359 1360 1358
CONNECT 1360 1361 1362 1359
CONNECT 1361 1360
CONNECT 1362 1366 1360 1363
CONNECT 1363 1362 1365 1364
CONNECT 1364 1363
CONNECT 1365 1363
CONNECT 1366 1367 1368 1362
CONNECT 1367 1366
CONNECT 1368 1366
CONNECT 1369 1370 1356 1371
CONNECT 1370 1369
CONNECT 1371 1369 1373 1372
CONNECT 1372 1371
CONNECT 1373 1378 1371 1374
CONNECT 1374 1373 1375
CONNECT 1375 1377 1376 1374
CONNECT 1376 1375
CONNECT 1377 1375
CONNECT 1378 1379 1373 1380
CONNECT 1379 1378
CONNECT 1380 1378 1382 1381
CONNECT 1381 1380
CONNECT 1382 1387 1380 1383
CONNECT 1383 1382 1384 1386
CONNECT 1384 1385 1383
CONNECT 1385 1384
CONNECT 1386 1383
CONNECT 1387 1388 1389 1382
CONNECT 1388 1387
CONNECT 1389 1391 1387 1390
CONNECT 1390 1389
CONNECT 1391 1396 1392 1389
CONNECT 1392 1393 1391
CONNECT 1393 1394 1395 1392
CONNECT 1394 1393
CONNECT 1395 1393
CONNECT 1396 1397 1398 1391
CONNECT 1397 1396
CONNECT 1398 1400 1396 1399
CONNECT 1399 1398
CONNECT 1400 1405 1401 1398
CONNECT 1401 1400 1402
CONNECT 1402 1404 1401 1403
CONNECT 1403 1402
CONNECT 1404 1402
CONNECT 1405 1406 1400 1407
CONNECT 1406 1405
CONNECT 1407 1405 1409 1408
CONNECT 1408 1407
CONNECT 1409 1413 1407 1410
CONNECT 1410 1409 1411 1412
CONNECT 1411 1410
CONNECT 1412 1410
CONNECT 1413 1414 1415 1409
CONNECT 1414 1413
CONNECT 1415 1417 1413 1416
CONNECT 1416 1415
CONNECT 1417 1421 1415 1418
CONNECT 1418 1417 1419
CONNECT 1419 1418 1420
CONNECT 1420 1419
CONNECT 1421 1422 1423 1417
CONNECT 1422 1421
CONNECT 1423 1425 1421 1424
CONNECT 1424 1423
CONNECT 1425 1434 1426 1423
CONNECT 1426 1427 1425
CONNECT 1427 1428 1426
CONNECT 1428 1427 1429
CONNECT 1429 1428 1430
CONNECT 1430 1432 1433 1429 1431
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 1442 1439
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 1452 1453
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 1460 1458
CONNECT 1460 1461 1459
CONNECT 1461 1463 1460 1462
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 1469 1473 1472
CONNECT 1472 1471
CONNECT 1473 1478 1471 1474
CONNECT 1474 1473 1476 1475
CONNECT 1475 1474 1477
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 1498 1500
CONNECT 1500 1499 1501
CONNECT 1501 1500 1503 1502 1504
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 1507 1510
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
CONNECT 1574 1576 1572 1575
CONNECT 1575 1574
CONNECT 1576 1581 1577 1574
CONNECT 1577 1578 1576

CONECT 1578 1579 1577
CONECT 1579 1578 1580
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 1604 1603 1601
CONECT 1603 1605 1602
CONECT 1604 1606 1602
CONECT 1605 1607 1603
CONECT 1606 1607 1604
CONECT 1607 1606 1605
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 1653 1652

CONECT 1652 1651 1654
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 1684 1680 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 1696 1694
CONECT 1696 1697 1695
CONECT 1697 1699 1698 1696
CONECT 1698 1697
CONECT 1699 1703 1700 1697
CONECT 1700 1702 1699 1701
CONECT 1701 1700
CONECT 1702 1700
CONECT 1703 1705 1704 1699
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 1722 1717
CONECT 1719 1717 1720
CONECT 1720 1722 1719 1721
CONECT 1721 1720
CONECT 1722 1718 1724 1720
CONECT 1723 1725 1718
CONECT 1724 1726 1722
CONECT 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 1737 1739 1735 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 1773 1771
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 1784 1788
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
CONNECT 1795 1796 1797 1793
CONNECT 1796 1795
CONNECT 1797 1798 1795 1799
CONNECT 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 1812 1814
CONECT 1814 1813 1815
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 1852 1850 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
CONECT 1869 1868
CONECT 1870 1871 1868 1872
CONECT 1871 1870
CONECT 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 1887 1884 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 1916 1915
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 1933 1934
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 1969 1967 1971
CONNECT 1969 1970 1968
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 1986 1988
CONNECT 1988 1987 1989
CONNECT 1989 1988 1990
CONNECT 1990 1989 1991 1992 1993
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 2002 2003 2000
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
CONNECT 2015 2016 2017 2013
CONNECT 2016 2015
CONNECT 2017 2018 2015 2022
CONNECT 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	2053	2055	
CONECT	2055	2054	2056	
CONECT	2056	2055	2057	
CONECT	2057	2056	2058	2060 2059
CONECT	2057			
CONECT	2058	2057		
CONECT	2059	2057		
CONECT	2060	2057		
CONECT	2061	2052	2063	2062
CONECT	2062	2061		
CONECT	2063	2064	2065	2061
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	2084	2085	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 2098 2096
CONECT 2098 2097 2099
CONECT 2099 2098 2101 2100
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 2117 2120
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 2145 2147 2148
CONECT 2147 2149 2146
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 2157 2159 2160
CONECT 2159 2158
CONECT 2160 2158 2161 2164
CONECT 2161 2163 2162 2160
CONECT 2162 2161
CONECT 2163 2161
CONECT 2164 2160 2166 2165
CONECT 2165 2164

CONNECT 2166 2164
CONNECT 2167 2169 2168 2154
CONNECT 2168 2167
CONNECT 2169 2171 2170 2167
CONNECT 2170 2169
CONNECT 2171 2176 2172 2169
CONNECT 2172 2175 2171 2173
CONNECT 2173 2172 2174
CONNECT 2174 2173
CONNECT 2175 2172
CONNECT 2176 2178 2177 2171
CONNECT 2177 2176
CONNECT 2178 2180 2179 2176
CONNECT 2179 2178
CONNECT 2180 2181 2184 2178
CONNECT 2181 2182 2183 2180
CONNECT 2182 2181
CONNECT 2183 2181
CONNECT 2184 2185 2180 2186
CONNECT 2185 2184
CONNECT 2186 2184 2187 2188
CONNECT 2187 2186
CONNECT 2188 2186 2193 2189
CONNECT 2189 2188 2190 2191
CONNECT 2190 2192 2189
CONNECT 2191 2189
CONNECT 2192 2190
CONNECT 2193 2188 2194 2195
CONNECT 2194 2193
CONNECT 2195 2193 2196 2197
CONNECT 2196 2195
CONNECT 2197 2199 2195 2198
CONNECT 2198 2197
CONNECT 2199 2201 2200 2197
CONNECT 2200 2199
CONNECT 2201 2203 2202 2199
CONNECT 2202 2201
CONNECT 2203 2204 2211 2201
CONNECT 2204 2205 2203
CONNECT 2205 2207 2206 2204
CONNECT 2206 2208 2205
CONNECT 2207 2209 2205
CONNECT 2208 2210 2206
CONNECT 2209 2210 2207
CONNECT 2210 2209 2208
CONNECT 2211 2212 2213 2203
CONNECT 2212 2211
CONNECT 2213 2215 2211 2214
CONNECT 2214 2213
CONNECT 2215 2216 2213
CONNECT 2216 2218 2217 2215
CONNECT 2217 2216
CONNECT 2218 2220 2219 2216
CONNECT 2219 2218
CONNECT 2220 2221 2218
CONNECT 2221 2223 2222 2220
CONNECT 2222 2221
CONNECT 2223 2225 2224 2221
CONNECT 2224 2223
CONNECT 2225 2226 2233 2223
CONNECT 2226 2225 2227
CONNECT 2227 2226 2228
CONNECT 2228 2227 2230 2229
CONNECT 2229 2228
CONNECT 2230 2231 2232 2228
CONNECT 2231 2230
CONNECT 2232 2230
CONNECT 2233 2234 2235 2225
CONNECT 2234 2233
CONNECT 2235 2237 2233 2236
CONNECT 2236 2235
CONNECT 2237 2246 2235 2238
CONNECT 2238 2237 2239
CONNECT 2239 2238 2240

CONECT 2240 2239 2241
CONECT 2241 2242 2240
CONECT 2242 2245 2244 2243 2241
CONECT 2242
CONECT 2243 2242
CONECT 2244 2242
CONECT 2245 2242
CONECT 2246 2247 2248 2237
CONECT 2247 2246
CONECT 2248 2250 2246 2249
CONECT 2249 2248
CONECT 2250 2259 2251 2248
CONECT 2251 2252 2250
CONECT 2252 2253 2251
CONECT 2253 2254 2252
CONECT 2254 2255 2253
CONECT 2255 2256 2258 2257 2254
CONECT 2255
CONECT 2256 2255
CONECT 2257 2255
CONECT 2258 2255
CONECT 2259 2260 2261 2250
CONECT 2260 2259
CONECT 2261 2263 2259 2262
CONECT 2262 2261
CONECT 2263 2269 2264 2261
CONECT 2264 2263 2265
CONECT 2265 2264 2266
CONECT 2266 2265 2268 2267
CONECT 2267 2266
CONECT 2268 2266
CONECT 2269 2270 2263 2271
CONECT 2270 2269
CONECT 2271 2269 2273 2272
CONECT 2272 2271
CONECT 2273 2278 2271 2274
CONECT 2274 2273 2275
CONECT 2275 2274 2277 2276
CONECT 2276 2275
CONECT 2277 2275
CONECT 2278 2279 2280 2273
CONECT 2279 2278
CONECT 2280 2282 2278 2281
CONECT 2281 2280
CONECT 2282 2288 2283 2280
CONECT 2283 2284 2282
CONECT 2284 2285 2283
CONECT 2285 2286 2287 2284
CONECT 2286 2285
CONECT 2287 2285
CONECT 2288 2289 2290 2282
CONECT 2289 2288
CONECT 2290 2292 2288 2291
CONECT 2291 2290
CONECT 2292 2305 2293 2290
CONECT 2293 2294 2292
CONECT 2294 2295 2293
CONECT 2295 2296 2294
CONECT 2296 2297 2298 2295
CONECT 2297 2296
CONECT 2298 2302 2296 2299
CONECT 2299 2298 2301 2300
CONECT 2300 2299
CONECT 2301 2299
CONECT 2302 2303 2304 2298
CONECT 2303 2302
CONECT 2304 2302
CONECT 2305 2306 2307 2292
CONECT 2306 2305
CONECT 2307 2309 2305 2308
CONECT 2308 2307
CONECT 2309 2319 2310 2307
CONECT 2310 2309 2311
CONECT 2311 2312 2310 2313

CONECT 2312 2314 2311
CONECT 2313 2311 2315
CONECT 2314 2312 2316
CONECT 2315 2316 2313
CONECT 2316 2314 2317 2315
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 2327 2326
CONECT 2326 2325
CONECT 2327 2329 2325 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 2338 2340 2341 2342
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 2349 2347
CONECT 2349 2350 2351 2348
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 2378 2380
CONECT 2380 2379 2382 2381
CONECT 2381 2380
CONECT 2382 2380
CONECT 2383 2384 2385 2377
CONECT 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 2396 2394
CONNECT 2396 2397 2395
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 2415 2414 2412
CONNECT 2414 2413
CONNECT 2415 2413
CONNECT 2416 2412 2417 2418
CONNECT 2417 2416
CONNECT 2418 2416
CONNECT 2419 2420 2421 2406
CONNECT 2420 2419
CONNECT 2421 2423 2422 2419
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 2454 2450 2453 2452
CONNECT 2451
CONNECT 2452 2451
CONNECT 2453 2451
CONNECT 2454 2451
CONNECT 2455 2457 2456 2446
CONNECT 2456 2455

CONNECT 2457 2459 2458 2455
CONNECT 2458 2457
CONNECT 2459 2460 2468 2457
CONNECT 2460 2461 2459
CONNECT 2461 2462 2460
CONNECT 2462 2463 2461
CONNECT 2463 2464 2462
CONNECT 2464 2465 2466 2467 2463
CONNECT 2464
CONNECT 2465 2464
CONNECT 2466 2464
CONNECT 2467 2464
CONNECT 2468 2469 2459 2470
CONNECT 2469 2468
CONNECT 2470 2468 2472 2471
CONNECT 2471 2470
CONNECT 2472 2470 2473 2474
CONNECT 2473 2472
CONNECT 2474 2472 2475 2476
CONNECT 2475 2474
CONNECT 2476 2474 2477 2478
CONNECT 2477 2476
CONNECT 2478 2483 2476 2479
CONNECT 2479 2478 2480 2481
CONNECT 2480 2479 2482
CONNECT 2481 2479
CONNECT 2482 2480
CONNECT 2483 2485 2484 2478
CONNECT 2484 2483
CONNECT 2485 2487 2486 2483
CONNECT 2486 2485
CONNECT 2487 2492 2488 2485
CONNECT 2488 2491 2487 2489
CONNECT 2489 2488 2490
CONNECT 2490 2489
CONNECT 2491 2488
CONNECT 2492 2493 2494 2487
CONNECT 2493 2492
CONNECT 2494 2496 2492 2495
CONNECT 2495 2494
CONNECT 2496 2497 2498 2494
CONNECT 2497 2496
CONNECT 2498 2499 2496 2500
CONNECT 2499 2498
CONNECT 2500 2498 2502 2501
CONNECT 2501 2500
CONNECT 2502 2509 2500 2503
CONNECT 2503 2502 2504
CONNECT 2504 2505 2503 2506
CONNECT 2505 2504
CONNECT 2506 2504 2507 2508
CONNECT 2507 2506
CONNECT 2508 2506
CONNECT 2509 2510 2502 2511
CONNECT 2510 2509
CONNECT 2511 2509 2513 2512
CONNECT 2512 2511
CONNECT 2513 2518 2511 2514
CONNECT 2514 2513 2516 2515
CONNECT 2515 2514 2517
CONNECT 2516 2514
CONNECT 2517 2515
CONNECT 2518 2519 2520 2513
CONNECT 2519 2518
CONNECT 2520 2522 2518 2521
CONNECT 2521 2520
CONNECT 2522 2526 2523 2520
CONNECT 2523 2524 2522
CONNECT 2524 2523 2525
CONNECT 2525 2524
CONNECT 2526 2527 2522 2528
CONNECT 2527 2526
CONNECT 2528 2526 2530 2529
CONNECT 2529 2528

CONECT	2530	2535	2528	2531
CONECT	2531	2532	2530	2533
CONECT	2532	2534	2531	
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	2580	2581	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	2599	2596
CONECT	2598	2600	2597	
CONECT	2599	2601	2597	
CONECT	2600	2602	2598	
CONECT	2601	2602	2599	
CONECT	2602	2603	2600	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 2674 2677 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 2689 2690 2687
CONECT 2689 2691 2688
CONECT 2690 2692 2688
CONECT 2691 2693 2689
CONECT 2692 2693 2690
CONECT 2693 2694 2691 2692
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 2732 2737 2738
CONECT 2737 2736
CONECT 2738 2736 2740 2739
CONECT 2739 2738
CONECT 2740 2745 2738 2741
CONECT 2741 2740 2742
CONECT 2742 2743 2741 2744
CONECT 2743 2742
CONECT 2744 2742
CONECT 2745 2747 2746 2740
CONECT 2746 2745
CONECT 2747 2749 2748 2745
CONECT 2748 2747
CONECT 2749 2753 2750 2747
CONECT 2750 2749 2751
CONECT 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 2806 2809 2816
CONNECT 2809 2808 2810
CONNECT 2810 2809 2811
CONNECT 2811 2810 2812 2813
CONNECT 2812 2811
CONNECT 2813 2811 2815 2814
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 2823 2822 2820
CONNECT 2822 2821
CONNECT 2823 2821
CONNECT 2824 2820 2825 2826
CONNECT 2825 2824

CONECT	2826	2824	2827	2828
CONECT	2827	2826		
CONECT	2828	2826	2829	2833
CONECT	2829	2828	2830	
CONECT	2830	2829	2831	2832
CONECT	2831	2830		
CONECT	2832	2830		
CONECT	2833	2828	2835	2834
CONECT	2834	2833		
CONECT	2835	2836	2833	2837
CONECT	2836	2835		
CONECT	2837	2835	2838	2842
CONECT	2838	2837	2839	2841
CONECT	2839	2838	2840	
CONECT	2840	2839		
CONECT	2841	2838		
CONECT	2842	2844	2837	2843
CONECT	2843	2842		
CONECT	2844	2845	2846	2842
CONECT	2845	2844		
CONECT	2846	2847	2844	2850
CONECT	2847	2849	2848	2846
CONECT	2848	2847		
CONECT	2849	2847		
CONECT	2850	2846	2852	2851
CONECT	2851	2850		
CONECT	2852	2853	2850	2854
CONECT	2853	2852		
CONECT	2854	2855	2852	2862
CONECT	2855	2856	2854	
CONECT	2856	2857	2858	2855
CONECT	2857	2859	2856	
CONECT	2858	2860	2856	
CONECT	2859	2861	2857	
CONECT	2860	2861	2858	
CONECT	2861	2859	2860	
CONECT	2862	2854	2864	2863
CONECT	2863	2862		
CONECT	2864	2865	2862	2866
CONECT	2865	2864		
CONECT	2866	2864	2867	2874
CONECT	2867	2866	2868	
CONECT	2868	2867	2869	2870
CONECT	2869	2868	2871	
CONECT	2870	2868	2872	
CONECT	2871	2869	2873	
CONECT	2872	2870	2873	
CONECT	2873	2871	2872	
CONECT	2874	2866	2876	2875
CONECT	2875	2874		
CONECT	2876	2877	2874	2878
CONECT	2877	2876		
CONECT	2878	2879	2876	2882
CONECT	2879	2880	2878	
CONECT	2880	2881	2879	
CONECT	2881	2880		
CONECT	2882	2884	2878	2883
CONECT	2883	2882		
CONECT	2884	2885	2886	2882
CONECT	2885	2884		
CONECT	2886	2887	2884	2890
CONECT	2887	2889	2888	2886
CONECT	2888	2887		
CONECT	2889	2887		
CONECT	2890	2886	2892	2891
CONECT	2891	2890		
CONECT	2892	2893	2890	2894
CONECT	2893	2892		
CONECT	2894	2892	2895	2899
CONECT	2895	2894	2896	
CONECT	2896	2895	2897	2898
CONECT	2897	2896		
CONECT	2898	2896		
CONECT	2899	2894	2901	2900

CONNECT 2900 2899
CONNECT 2901 2902 2899 2903
CONNECT 2902 2901
CONNECT 2903 2901 2904 2908
CONNECT 2904 2905 2903 2906
CONNECT 2905 2904 2907
CONNECT 2906 2904
CONNECT 2907 2905
CONNECT 2908 2910 2903 2909
CONNECT 2909 2908
CONNECT 2910 2911 2912 2908
CONNECT 2911 2910
CONNECT 2912 2910 2913
CONNECT 2913 2912 2915 2914
CONNECT 2914 2913
CONNECT 2915 2916 2913 2917
CONNECT 2916 2915
CONNECT 2917 2915 2918 2919
CONNECT 2918 2917
CONNECT 2919 2917 2921 2920
CONNECT 2920 2919
CONNECT 2921 2922 2919 2923
CONNECT 2922 2921
CONNECT 2923 2921 2924 2931
CONNECT 2924 2925 2923
CONNECT 2925 2927 2924 2926
CONNECT 2926 2925 2928
CONNECT 2927 2929 2925
CONNECT 2928 2930 2926
CONNECT 2929 2927 2930
CONNECT 2930 2929 2928
CONNECT 2931 2923 2933 2932
CONNECT 2932 2931
CONNECT 2933 2934 2931 2935
CONNECT 2934 2933
CONNECT 2935 2936 2933 2939
CONNECT 2936 2937 2935
CONNECT 2937 2938 2936
CONNECT 2938 2937
CONNECT 2939 2941 2935 2940
CONNECT 2940 2939
CONNECT 2941 2942 2943 2939
CONNECT 2942 2941
CONNECT 2943 2944 2941 2947
CONNECT 2944 2946 2945 2943
CONNECT 2945 2944
CONNECT 2946 2944
CONNECT 2947 2943 2949 2948
CONNECT 2948 2947
CONNECT 2949 2950 2947 2951
CONNECT 2950 2949
CONNECT 2951 2949 2952
CONNECT 2952 2951 2954 2953
CONNECT 2953 2952
CONNECT 2954 2955 2952 2956
CONNECT 2955 2954
CONNECT 2956 2954 2957 2964
CONNECT 2957 2958 2956
CONNECT 2958 2957 2959
CONNECT 2959 2958 2960 2961
CONNECT 2960 2959
CONNECT 2961 2959 2963 2962
CONNECT 2962 2961
CONNECT 2963 2961
CONNECT 2964 2966 2956 2965
CONNECT 2965 2964
CONNECT 2966 2967 2968 2964
CONNECT 2967 2966
CONNECT 2968 2969 2966 2970
CONNECT 2969 2968
CONNECT 2970 2968 2972 2971
CONNECT 2971 2970
CONNECT 2972 2973 2970 2974
CONNECT 2973 2972

CONNECT 2974 2975 2972 2978
CONNECT 2975 2976 2974
CONNECT 2976 2977 2975
CONNECT 2977 2976
CONNECT 2978 2974 2979 2980
CONNECT 2979 2978
CONNECT 2980 2978 2982 2981
CONNECT 2981 2980 2985 2983
CONNECT 2982 2980 2984
CONNECT 2983 2984 2981
CONNECT 2984 2982 2983
CONNECT 2985 2981 2987 2986
CONNECT 2986 2985
CONNECT 2987 2988 2985 2989
CONNECT 2988 2987
CONNECT 2989 2990 2987 2993
CONNECT 2990 2991 2989
CONNECT 2991 2990 2992
CONNECT 2992 2991
CONNECT 2993 2995 2989 2994
CONNECT 2994 2993
CONNECT 2995 2996 2997 2993
CONNECT 2996 2995
CONNECT 2997 2998 2995 3002
CONNECT 2998 2999 3000 2997
CONNECT 2999 3001 2998
CONNECT 3000 2998
CONNECT 3001 2999
CONNECT 3002 2997 3004 3003
CONNECT 3003 3002
CONNECT 3004 3005 3002 3006
CONNECT 3005 3004
CONNECT 3006 3004 3007 3012
CONNECT 3007 3006 3008
CONNECT 3008 3007 3009
CONNECT 3009 3008 3011 3010
CONNECT 3010 3009
CONNECT 3011 3009
CONNECT 3012 3006 3014 3013
CONNECT 3013 3012
CONNECT 3014 3015 3012 3016
CONNECT 3015 3014
CONNECT 3016 3014 3018 3017
CONNECT 3017 3016
CONNECT 3018 3020 3016 3019
CONNECT 3019 3018
CONNECT 3020 3021 3022 3018
CONNECT 3021 3020
CONNECT 3022 3023 3020 3030
CONNECT 3023 3024 3022
CONNECT 3024 3023 3025 3026
CONNECT 3025 3024 3027
CONNECT 3026 3024 3028
CONNECT 3027 3025 3029
CONNECT 3028 3026 3029
CONNECT 3029 3027 3028
CONNECT 3030 3032 3022 3031
CONNECT 3031 3030
CONNECT 3032 3033 3034 3030
CONNECT 3033 3032
CONNECT 3034 3035 3032 3036
CONNECT 3035 3034
CONNECT 3036 3034 3037 3038
CONNECT 3037 3036
CONNECT 3038 3036 3039 3040
CONNECT 3039 3038
CONNECT 3040 3038 3041 3047
CONNECT 3041 3042 3040
CONNECT 3042 3043 3044 3041
CONNECT 3043 3042
CONNECT 3044 3045 3042 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 3062 3060
CONNECT 3062 3061
CONNECT 3063 3067 3064 3061
CONNECT 3064 3065 3063 3066
CONNECT 3065 3064
CONNECT 3066 3064
CONNECT 3067 3068 3069 3063
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 3079 3083 3082
CONNECT 3082 3081
CONNECT 3083 3084 3081 3085
CONNECT 3084 3083
CONNECT 3085 3083 3087 3086
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 3095 3094 3092
CONNECT 3094 3096 3093
CONNECT 3095 3097 3093
CONNECT 3096 3098 3094
CONNECT 3097 3098 3095
CONNECT 3098 3099 3097 3096
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 3122 3132
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 3139 3141
CONNECT 3141 3140 3144 3142 3143
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 3156 3159 3163
CONNECT 3159 3161 3158 3160
CONNECT 3160 3159 3162
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 3182 3181
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 3191 3194 3193 3195
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 3198 3202
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 3224 3226
CONNECT 3226 3227 3225 3228
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 3243 3247
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 3256 3259
CONNECT 3256 3257 3255
CONNECT 3257 3258 3256
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 3267 3269 3270 3271
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 3276 3278
CONNECT 3278 3277 3279
CONNECT 3279 3278
CONNECT 3280 3281 3276 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 3297 3296 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 3310 3308 3309 3306
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 3336 3337 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 3355 3353
CONNECT 3355 3354 3356
CONNECT 3356 3355 3359 3357 3358
CONNECT 3356
CONNECT 3357 3356
CONNECT 3358 3356
CONNECT 3359 3356
CONNECT 3360 3361 3362 3351
CONNECT 3361 3360
CONNECT 3362 3364 3363 3360
CONNECT 3363 3362
CONNECT 3364 3365 3362
CONNECT 3365 3367 3366 3364
CONNECT 3366 3365
CONNECT 3367 3369 3368 3365
CONNECT 3368 3367
CONNECT 3369 3376 3367 3370
CONNECT 3370 3369 3371
CONNECT 3371 3370 3372 3373
CONNECT 3372 3371
CONNECT 3373 3371 3374 3375
CONNECT 3374 3373
CONNECT 3375 3373
CONNECT 3376 3377 3378 3369
CONNECT 3377 3376
CONNECT 3378 3380 3376 3379
CONNECT 3379 3378
CONNECT 3380 3381 3385 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

CONECT 3413 3412 3414
CONECT 3414 3413 3415
CONECT 3415 3414 3416 3417
CONECT 3416 3415
CONECT 3417 3415 3418 3421
CONECT 3418 3419 3417 3420
CONECT 3419 3418
CONECT 3420 3418
CONECT 3421 3417 3422 3423
CONECT 3422 3421
CONECT 3423 3421
CONECT 3424 3425 3426 3411
CONECT 3425 3424
CONECT 3426 3428 3424 3427
CONECT 3427 3426
CONECT 3428 3435 3429 3426
CONECT 3429 3430 3428
CONECT 3430 3431 3432 3429
CONECT 3431 3430
CONECT 3432 3434 3430 3433
CONECT 3433 3432
CONECT 3434 3432
CONECT 3435 3436 3437 3428
CONECT 3436 3435
CONECT 3437 3439 3435 3438
CONECT 3438 3437
CONECT 3439 3443 3440 3437
CONECT 3440 3441 3439 3442
CONECT 3441 3440
CONECT 3442 3440
CONECT 3443 3445 3444 3439
CONECT 3444 3443
CONECT 3445 3447 3446 3443
CONECT 3446 3445
CONECT 3447 3451 3456 3445
CONECT 3448 3450 3455 3449
CONECT 3449 3448
CONECT 3450 3451 3454 3448
CONECT 3451 3450 3447
CONECT 3452 3454 3453 3455
CONECT 3453 3452
CONECT 3454 3450 3452
CONECT 3455 3452 3448
CONECT 3456 3458 3457 3447
CONECT 3457 3456
CONECT 3458 3460 3459 3456
CONECT 3459 3458
CONECT 3460 3468 3458 3461
CONECT 3461 3460 3462
CONECT 3462 3463 3464 3461
CONECT 3463 3465 3462
CONECT 3464 3466 3462
CONECT 3465 3467 3463
CONECT 3466 3467 3464
CONECT 3467 3465 3466
CONECT 3468 3470 3469 3460
CONECT 3469 3468
CONECT 3470 3472 3471 3468
CONECT 3471 3470
CONECT 3472 3473 3476 3470
CONECT 3473 3474 3472
CONECT 3474 3475 3473
CONECT 3475 3474
CONECT 3476 3478 3477 3472
CONECT 3477 3476
CONECT 3478 3480 3479 3476
CONECT 3479 3478
CONECT 3480 3490 3481 3478
CONECT 3481 3480 3482
CONECT 3482 3481 3483 3484
CONECT 3483 3482 3485
CONECT 3484 3482 3486
CONECT 3485 3483 3487
CONECT 3486 3484 3487

CONNECT 3487 3485 3486 3488
CONNECT 3488 3487 3489
CONNECT 3489 3488
CONNECT 3490 3491 3492 3480
CONNECT 3491 3490
CONNECT 3492 3493 3490 3494
CONNECT 3493 3497 3495 3492
CONNECT 3494 3496 3492
CONNECT 3495 3493 3496
CONNECT 3496 3495 3494
CONNECT 3497 3498 3499 3493
CONNECT 3498 3497
CONNECT 3499 3501 3497 3500
CONNECT 3500 3499
CONNECT 3501 3502 3505 3499
CONNECT 3502 3503 3501
CONNECT 3503 3504 3502
CONNECT 3504 3503
CONNECT 3505 3507 3501 3506
CONNECT 3506 3505
CONNECT 3507 3508 3509 3505
CONNECT 3508 3507
CONNECT 3509 3510 3507 3522
CONNECT 3510 3511 3509
CONNECT 3511 3512 3510
CONNECT 3512 3513 3511
CONNECT 3513 3515 3514 3512
CONNECT 3514 3513
CONNECT 3515 3519 3516 3513
CONNECT 3516 3518 3517 3515
CONNECT 3517 3516
CONNECT 3518 3516
CONNECT 3519 3521 3520 3515
CONNECT 3520 3519
CONNECT 3521 3519
CONNECT 3522 3524 3509 3523
CONNECT 3523 3522
CONNECT 3524 3525 3526 3522
CONNECT 3525 3524
CONNECT 3526 3527 3524 3535
CONNECT 3527 3528 3526
CONNECT 3528 3529 3527
CONNECT 3529 3530 3528
CONNECT 3530 3531 3529
CONNECT 3531 3532 3530 3533 3534
CONNECT 3531
CONNECT 3532 3531
CONNECT 3533 3531
CONNECT 3534 3531
CONNECT 3535 3526 3536 3537
CONNECT 3536 3535
CONNECT 3537 3535 3538 3539
CONNECT 3538 3537
CONNECT 3539 3537 3540 3545
CONNECT 3540 3541 3539
CONNECT 3541 3542 3540
CONNECT 3542 3544 3543 3541
CONNECT 3543 3542
CONNECT 3544 3542
CONNECT 3545 3539 3546 3547
CONNECT 3546 3545
CONNECT 3547 3545 3548 3549
CONNECT 3548 3547
CONNECT 3549 3547 3550 3553
CONNECT 3550 3549 3551 3552
CONNECT 3551 3550
CONNECT 3552 3550
CONNECT 3553 3549 3554 3555
CONNECT 3554 3553
CONNECT 3555 3553 3556 3557
CONNECT 3556 3555
CONNECT 3557 3555 3558 3566
CONNECT 3558 3559 3557
CONNECT 3559 3560 3558

CONNECT 3560 3561 3559
CONNECT 3561 3562 3560
CONNECT 3562 3563 3564 3565 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 3583 3582
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 3596 3592 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 3618 3619 3616
CONNECT 3618 3617
CONNECT 3619 3621 3617 3620
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 3629 3630
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 3641 3639
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 3648 3651
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 3658 3660 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 3669 3672
CONNECT 3669 3668 3670
CONNECT 3670 3669 3671
CONNECT 3671 3670
CONNECT 3672 3668 3674 3673
CONNECT 3673 3672
CONNECT 3674 3675 3672 3676
CONNECT 3675 3674
CONNECT 3676 3674 3677
CONNECT 3677 3679 3676 3678
CONNECT 3678 3677
CONNECT 3679 3680 3681 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 3699 3693
CONNECT 3699 3698
CONNECT 3700 3702 3701 3698
CONNECT 3701 3700
CONNECT 3702 3706 3703 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 3738 3737 3734
CONNECT 3737 3736
CONNECT 3738 3745 3739 3736
CONNECT 3739 3738 3740
CONNECT 3740 3739 3741 3742
CONNECT 3741 3740
CONNECT 3742 3740 3743 3744
CONNECT 3743 3742
CONNECT 3744 3742
CONNECT 3745 3747 3746 3738
CONNECT 3746 3745
CONNECT 3747 3749 3748 3745
CONNECT 3748 3747
CONNECT 3749 3750 3753 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 3782 3780 3778 3781
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 3806 3808
CONNECT 3806 3807 3805
CONNECT 3807 3806
CONNECT 3808 3805
CONNECT 3809 3804 3810 3811
CONNECT 3810 3809
CONNECT 3811 3809 3812 3813
CONNECT 3812 3811
CONNECT 3813 3811 3817 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 3825 3823 3826
CONNECT 3825 3824
CONNECT 3826 3824 3828 3827
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 3835 3833
CONNECT 3835 3836 3834 3837
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 3844 3846
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 3851 3853
CONNECT 3853 3852 3854
CONNECT 3854 3855 3856 3853
CONNECT 3855 3854
CONNECT 3856 3857 3854 3858
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 3863 3865
CONNECT 3865 3866 3864
CONNECT 3866 3867 3865
CONNECT 3867 3868 3869 3866
CONNECT 3868 3867
CONNECT 3869 3873 3867 3870
CONNECT 3870 3869 3871 3872
CONNECT 3871 3870
CONNECT 3872 3870
CONNECT 3873 3875 3874 3869
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 3904 3907 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 3922 3920
CONNECT 3922 3921
CONNECT 3923 3920
CONNECT 3924 3925 3919 3926
CONNECT 3925 3924

CONECT 3926 3924 3928 3927
CONECT 3927 3926
CONECT 3928 3929 3926 3934
CONECT 3929 3930 3928
CONECT 3930 3931 3929
CONECT 3931 3933 3930 3932
CONECT 3932 3931
CONECT 3933 3931
CONECT 3934 3928 3935 3936
CONECT 3935 3934
CONECT 3936 3934 3937 3938
CONECT 3937 3936
CONECT 3938 3936 3939
CONECT 3939 3940 3938 3941
CONECT 3940 3939
CONECT 3941 3939 3943 3942
CONECT 3942 3941
CONECT 3943 3941 3944 3948
CONECT 3944 3945 3943
CONECT 3945 3946 3944
CONECT 3946 3947 3945
CONECT 3947 3946
CONECT 3948 3943 3950 3949
CONECT 3949 3948
CONECT 3950 3951 3948 3952
CONECT 3951 3950
CONECT 3952 3950 3953 3956
CONECT 3953 3954 3952 3955
CONECT 3954 3953
CONECT 3955 3953
CONECT 3956 3952 3957 3958
CONECT 3957 3956
CONECT 3958 3956 3959 3960
CONECT 3959 3958
CONECT 3960 3958 3961 3964
CONECT 3961 3960 3962
CONECT 3962 3961 3963
CONECT 3963 3962
CONECT 3964 3960 3966 3965
CONECT 3965 3964
CONECT 3966 3967 3964 3968
CONECT 3967 3966
CONECT 3968 3966 3969 3972
CONECT 3969 3971 3968 3970
CONECT 3970 3969
CONECT 3971 3969
CONECT 3972 3968 3973 3974
CONECT 3973 3972
CONECT 3974 3972 3975 3976
CONECT 3975 3974
CONECT 3976 3974 3981 3977
CONECT 3977 3976 3978
CONECT 3978 3977 3980 3979
CONECT 3979 3978
CONECT 3980 3978
CONECT 3981 3982 3983 3976
CONECT 3982 3981
CONECT 3983 3985 3981 3984
CONECT 3984 3983
CONECT 3985 3986 3983
CONECT 3986 3987 3988 3985
CONECT 3987 3986
CONECT 3988 3990 3989 3986
CONECT 3989 3988
CONECT 3990 3998 3991 3988
CONECT 3991 3990 3992
CONECT 3992 3991 3993
CONECT 3993 3994 3992 3995
CONECT 3994 3993
CONECT 3995 3993 3997 3996
CONECT 3996 3995
CONECT 3997 3995
CONECT 3998 4000 3999 3990
CONECT 3999 3998

CONNECT 4000 4002 4001 3998
CONNECT 4001 4000
CONNECT 4002 4003 4007 4000
CONNECT 4003 4004 4002
CONNECT 4004 4005 4006 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 4023 4025
CONNECT 4025 4024
CONNECT 4026 4027 4030 4024
CONNECT 4027 4028 4029 4026
CONNECT 4028 4027
CONNECT 4029 4027
CONNECT 4030 4031 4026 4032
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 4037 4043 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 4061 4060 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
CONNECT 4070 4066 4072 4071
CONNECT 4071 4070
CONNECT 4072 4073 4070 4074
CONNECT 4073 4072

CONNECT 4074 4072 4075 4087
CONNECT 4075 4074 4076
CONNECT 4076 4075 4077
CONNECT 4077 4078 4076
CONNECT 4078 4079 4080 4077
CONNECT 4079 4078
CONNECT 4080 4084 4078 4081
CONNECT 4081 4080 4083 4082
CONNECT 4082 4081
CONNECT 4083 4081
CONNECT 4084 4085 4086 4080
CONNECT 4085 4084
CONNECT 4086 4084
CONNECT 4087 4074 4089 4088
CONNECT 4088 4087
CONNECT 4089 4090 4087 4091
CONNECT 4090 4089
CONNECT 4091 4089 4092 4099
CONNECT 4092 4091 4093
CONNECT 4093 4092 4094 4095
CONNECT 4094 4093 4096
CONNECT 4095 4093 4097
CONNECT 4096 4094 4098
CONNECT 4097 4095 4098
CONNECT 4098 4096 4097
CONNECT 4099 4101 4091 4100
CONNECT 4100 4099
CONNECT 4101 4102 4103 4099
CONNECT 4102 4101
CONNECT 4103 4104 4101 4108
CONNECT 4104 4105 4103
CONNECT 4105 4104 4106 4107
CONNECT 4106 4105
CONNECT 4107 4105
CONNECT 4108 4110 4103 4109
CONNECT 4109 4108
CONNECT 4110 4111 4112 4108
CONNECT 4111 4110
CONNECT 4112 4113 4110 4125
CONNECT 4113 4114 4112
CONNECT 4114 4115 4113
CONNECT 4115 4116 4114
CONNECT 4116 4118 4117 4115
CONNECT 4117 4116
CONNECT 4118 4122 4119 4116
CONNECT 4119 4121 4118 4120
CONNECT 4120 4119
CONNECT 4121 4119
CONNECT 4122 4124 4123 4118
CONNECT 4123 4122
CONNECT 4124 4122
CONNECT 4125 4112 4126 4127
CONNECT 4126 4125
CONNECT 4127 4125 4128 4129
CONNECT 4128 4127
CONNECT 4129 4127 4130 4135
CONNECT 4130 4131 4129
CONNECT 4131 4132 4130
CONNECT 4132 4134 4131 4133
CONNECT 4133 4132
CONNECT 4134 4132
CONNECT 4135 4129 4137 4136
CONNECT 4136 4135
CONNECT 4137 4138 4135 4139
CONNECT 4138 4137
CONNECT 4139 4137 4140 4144
CONNECT 4140 4141 4139 4142
CONNECT 4141 4140 4143
CONNECT 4142 4140
CONNECT 4143 4141
CONNECT 4144 4146 4139 4145
CONNECT 4145 4144
CONNECT 4146 4147 4148 4144
CONNECT 4147 4146

CONNECT 4148 4149 4153 4146
CONNECT 4149 4151 4150 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 4194 4184
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 4201 4199
CONNECT 4201 4200 4203 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 4232 4234
CONNECT 4234 4236 4233 4235
CONNECT 4235 4234 4237
CONNECT 4236 4238 4234
CONNECT 4237 4239 4235
CONNECT 4238 4236 4239
CONNECT 4239 4238 4237
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 4264 4260
CONNECT 4260 4259 4263 4261
CONNECT 4261 4260 4262
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 4287 4285 4288
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 4298 4295 4299
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 4306 4307
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 4315 4317
CONNECT 4317 4316 4319 4318
CONNECT 4318 4317
CONNECT 4319 4320 4317 4323
CONNECT 4320 4322 4321 4319
CONNECT 4321 4320
CONNECT 4322 4320
CONNECT 4323 4319 4324 4325
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 4333 4334 4331
CONNECT 4333 4335 4332
CONNECT 4334 4336 4332
CONNECT 4335 4337 4333
CONNECT 4336 4337 4334
CONNECT 4337 4338 4335 4336
CONNECT 4338 4339 4337
CONNECT 4339 4338
CONNECT 4340 4341 4330 4342
CONNECT 4341 4340
CONNECT 4342 4340 4343 4344
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 4373 4374
CONNECT 4373 4372
CONNECT 4374 4372 4375 4376
CONNECT 4375 4374
CONNECT 4376 4374 4377 4383
CONNECT 4377 4376 4378
CONNECT 4378 4377 4379 4380
CONNECT 4379 4378
CONNECT 4380 4378 4381 4382
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 4398 4396
CONNECT 4398 4397
CONNECT 4399 4396
CONNECT 4400 4395 4402 4401
CONNECT 4401 4400
CONNECT 4402 4400 4403 4404
CONNECT 4403 4402
CONNECT 4404 4402 4405 4409
CONNECT 4405 4406 4404
CONNECT 4406 4405 4407
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 4423 4425
CONNECT 4425 4424 4426 4427
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 4446 4445
CONNECT 4445 4444
CONNECT 4446 4444
CONNECT 4447 4441 4448 4449
CONNECT 4448 4447
CONNECT 4449 4447 4450 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 4457 4459 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 4470 4469 4466
CONNECT 4469 4468
CONNECT 4470 4471 4468 4474
CONNECT 4471 4472 4470 4473
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 4482 4485 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 4495 4493 4496
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 4507 4506
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
CONNECT 4512 4511
CONNECT 4513 4511
CONNECT 4514 4516 4515 4507
CONNECT 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 4527 4525 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 4577 4576 4573
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 4585 4581 4583 4584
CONECT 4582
CONECT 4583 4582
CONECT 4584 4582
CONECT 4585 4582
CONECT 4586 4588 4587 4577
CONECT 4587 4586
CONECT 4588 4590 4589 4586

CONECT 4589 4588
CONECT 4590 4591 4595 4588
CONECT 4591 4592 4590
CONECT 4592 4594 4593 4591
CONECT 4593 4592
CONECT 4594 4592
CONECT 4595 4597 4590 4596
CONECT 4596 4595
CONECT 4597 4599 4598 4595
CONECT 4598 4600 4602 4597
CONECT 4599 4601 4597
CONECT 4600 4601 4598
CONECT 4601 4599 4600
CONECT 4602 4603 4604 4598
CONECT 4603 4602
CONECT 4604 4606 4602 4605
CONECT 4605 4604
CONECT 4606 4610 4604 4615
CONECT 4607 4614 4608 4609
CONECT 4608 4607
CONECT 4609 4607 4613 4610
CONECT 4610 4609 4606
CONECT 4611 4612 4614 4613
CONECT 4612 4611
CONECT 4613 4611 4609
CONECT 4614 4611 4607
CONECT 4615 4606 4616 4617
CONECT 4616 4615
CONECT 4617 4615 4618 4619
CONECT 4618 4617
CONECT 4619 4628 4617 4620
CONECT 4620 4619 4621
CONECT 4621 4620 4622
CONECT 4622 4621 4623
CONECT 4623 4622 4624
CONECT 4624 4623 4627 4625 4626
CONECT 4624
CONECT 4625 4624
CONECT 4626 4624
CONECT 4627 4624
CONECT 4628 4629 4630 4619
CONECT 4629 4628
CONECT 4630 4632 4628 4631
CONECT 4631 4630
CONECT 4632 4640 4633 4630
CONECT 4633 4632 4634
CONECT 4634 4633 4635 4636
CONECT 4635 4634 4637
CONECT 4636 4634 4638
CONECT 4637 4635 4639
CONECT 4638 4636 4639
CONECT 4639 4637 4638
CONECT 4640 4641 4642 4632
CONECT 4641 4640
CONECT 4642 4644 4640 4643
CONECT 4643 4642
CONECT 4644 4649 4645 4642
CONECT 4645 4646 4644
CONECT 4646 4647 4648 4645
CONECT 4647 4646
CONECT 4648 4646
CONECT 4649 4650 4651 4644
CONECT 4650 4649
CONECT 4651 4653 4649 4652
CONECT 4652 4651
CONECT 4653 4658 4654 4651
CONECT 4654 4657 4653 4655
CONECT 4655 4654 4656
CONECT 4656 4655
CONECT 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 4689 4688 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 4698 4696
CONECT 4698 4699 4697 4700
CONECT 4699 4698
CONECT 4700 4698 4704 4701
CONECT 4701 4700 4703 4702
CONECT 4702 4701
CONECT 4703 4701
CONECT 4704 4706 4700 4705
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 4724 4727 4726
CONECT 4726 4725
CONECT 4727 4729 4725 4728
CONECT 4728 4727
CONECT 4729 4727
CONECT 4730 4722 4731 4732
CONECT 4731 4730
CONECT 4732 4733 4730 4734
CONECT 4733 4732
CONECT 4734 4732 4739 4735
CONECT 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 4784 4783
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 4803 4801 4804
CONNECT 4803 4802
CONNECT 4804 4802 4808 4805
CONNECT 4805 4804 4806 4807
CONNECT 4806 4805
CONNECT 4807 4805
CONNECT 4808 4809 4804 4810

CONNECT 4809 4808
CONNECT 4810 4808
CONNECT 4811 4813 4798 4812
CONNECT 4812 4811
CONNECT 4813 4814 4815 4811
CONNECT 4814 4813
CONNECT 4815 4816 4820 4813
CONNECT 4816 4818 4817 4815
CONNECT 4817 4819 4816
CONNECT 4818 4816
CONNECT 4819 4817
CONNECT 4820 4822 4821 4815
CONNECT 4821 4820
CONNECT 4822 4824 4823 4820
CONNECT 4823 4822
CONNECT 4824 4825 4822 4826
CONNECT 4825 4824
CONNECT 4826 4824 4827 4828
CONNECT 4827 4826
CONNECT 4828 4826 4829 4830
CONNECT 4829 4828
CONNECT 4830 4828 4835 4831
CONNECT 4831 4830 4832 4833
CONNECT 4832 4834 4831
CONNECT 4833 4831
CONNECT 4834 4832
CONNECT 4835 4830 4837 4836
CONNECT 4836 4835
CONNECT 4837 4835 4838 4839
CONNECT 4838 4837
CONNECT 4839 4841 4837 4840
CONNECT 4840 4839
CONNECT 4841 4843 4842 4839
CONNECT 4842 4841
CONNECT 4843 4845 4844 4841
CONNECT 4844 4843
CONNECT 4845 4846 4858 4843
CONNECT 4846 4847 4845
CONNECT 4847 4848 4846
CONNECT 4848 4849 4847
CONNECT 4849 4851 4848 4850
CONNECT 4850 4849
CONNECT 4851 4852 4855 4849
CONNECT 4852 4854 4853 4851
CONNECT 4853 4852
CONNECT 4854 4852
CONNECT 4855 4857 4851 4856
CONNECT 4856 4855
CONNECT 4857 4855
CONNECT 4858 4860 4845 4859
CONNECT 4859 4858
CONNECT 4860 4861 4862 4858
CONNECT 4861 4860
CONNECT 4862 4863 4860 4864
CONNECT 4863 4862
CONNECT 4864 4862 4865 4866
CONNECT 4865 4864
CONNECT 4866 4864 4867 4868
CONNECT 4867 4866
CONNECT 4868 4866 4873 4869
CONNECT 4869 4868 4870
CONNECT 4870 4869 4872 4871
CONNECT 4871 4870
CONNECT 4872 4870
CONNECT 4873 4875 4868 4874
CONNECT 4874 4873
CONNECT 4875 4876 4877 4873
CONNECT 4876 4875
CONNECT 4877 4881 4878 4875
CONNECT 4878 4879 4880 4877
CONNECT 4879 4878
CONNECT 4880 4878
CONNECT 4881 4883 4882 4877
CONNECT 4882 4881

CONECT 4883 4885 4884 4881
CONECT 4884 4883
CONECT 4885 4886 4883 4898
CONECT 4886 4887 4885
CONECT 4887 4888 4886
CONECT 4888 4889 4887
CONECT 4889 4891 4888 4890
CONECT 4890 4889
CONECT 4891 4892 4895 4889
CONECT 4892 4894 4893 4891
CONECT 4893 4892
CONECT 4894 4892
CONECT 4895 4897 4891 4896
CONECT 4896 4895
CONECT 4897 4895
CONECT 4898 4885 4899 4900
CONECT 4899 4898
CONECT 4900 4898 4901 4902
CONECT 4901 4900
CONECT 4902 4900 4909 4903
CONECT 4903 4902 4904
CONECT 4904 4905 4903 4906
CONECT 4905 4904
CONECT 4906 4904 4908 4907
CONECT 4907 4906
CONECT 4908 4906
CONECT 4909 4911 4910 4902
CONECT 4910 4909
CONECT 4911 4913 4912 4909
CONECT 4912 4914 4911 4916
CONECT 4913 4915 4911
CONECT 4914 4915 4912
CONECT 4915 4914 4913
CONECT 4916 4912 4918 4917
CONECT 4917 4916
CONECT 4918 4919 4916 4920
CONECT 4919 4918
CONECT 4920 4918 4929 4921
CONECT 4921 4922 4920
CONECT 4922 4923 4921
CONECT 4923 4924 4922
CONECT 4924 4923 4925
CONECT 4925 4924 4927 4926 4928
CONECT 4925
CONECT 4926 4925
CONECT 4927 4925
CONECT 4928 4925
CONECT 4929 4931 4920 4930
CONECT 4930 4929
CONECT 4931 4933 4932 4929
CONECT 4932 4931
CONECT 4933 4934 4938 4931
CONECT 4934 4936 4935 4933
CONECT 4935 4937 4934
CONECT 4936 4934
CONECT 4937 4935
CONECT 4938 4939 4940 4933
CONECT 4939 4938
CONECT 4940 4942 4938 4941
CONECT 4941 4940
CONECT 4942 4947 4940 4943
CONECT 4943 4942 4944
CONECT 4944 4946 4943 4945
CONECT 4945 4944
CONECT 4946 4944
CONECT 4947 4949 4948 4942
CONECT 4948 4947
CONECT 4949 4951 4950 4947
CONECT 4950 4949
CONECT 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 4991 4988 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 5004 5006
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 5020 5018 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 5029 5030
CONECT 5029 5028

CONNECT 5030 5028
CONNECT 5031 5026 5032 5033
CONNECT 5032 5031
CONNECT 5033 5031 5034 5035
CONNECT 5034 5033
CONNECT 5035 5033 5036 5040
CONNECT 5036 5037 5035 5039
CONNECT 5037 5038 5036
CONNECT 5038 5037
CONNECT 5039 5036
CONNECT 5040 5035 5042 5041
CONNECT 5041 5040
CONNECT 5042 5043 5040 5044
CONNECT 5043 5042
CONNECT 5044 5042 5050 5045
CONNECT 5045 5044 5046
CONNECT 5046 5045 5047
CONNECT 5047 5048 5046 5049
CONNECT 5048 5047
CONNECT 5049 5047
CONNECT 5050 5052 5044 5051
CONNECT 5051 5050
CONNECT 5052 5053 5054 5050
CONNECT 5053 5052
CONNECT 5054 5055 5058 5052
CONNECT 5055 5056 5054
CONNECT 5056 5057 5055
CONNECT 5057 5056
CONNECT 5058 5060 5054 5059
CONNECT 5059 5058
CONNECT 5060 5061 5062 5058
CONNECT 5061 5060
CONNECT 5062 5063 5060 5071
CONNECT 5063 5062 5064
CONNECT 5064 5063 5065
CONNECT 5065 5064 5066
CONNECT 5066 5065 5067
CONNECT 5067 5066 5069 5068 5070
CONNECT 5067
CONNECT 5068 5067
CONNECT 5069 5067
CONNECT 5070 5067
CONNECT 5071 5062 5072 5073
CONNECT 5072 5071
CONNECT 5073 5071 5074 5075
CONNECT 5074 5073
CONNECT 5075 5073 5077 5076
CONNECT 5076 5075
CONNECT 5077 5075 5079 5078
CONNECT 5078 5077
CONNECT 5079 5080 5077 5081
CONNECT 5080 5079
CONNECT 5081 5085 5079 5082
CONNECT 5082 5081 5083 5084
CONNECT 5083 5082
CONNECT 5084 5082
CONNECT 5085 5087 5086 5081
CONNECT 5086 5085
CONNECT 5087 5089 5088 5085
CONNECT 5088 5087
CONNECT 5089 5090 5093 5087
CONNECT 5090 5091 5092 5089
CONNECT 5091 5090
CONNECT 5092 5090
CONNECT 5093 5089 5094 5095
CONNECT 5094 5093
CONNECT 5095 5093 5096 5097
CONNECT 5096 5095
CONNECT 5097 5095 5098 5105
CONNECT 5098 5099 5097
CONNECT 5099 5100 5098
CONNECT 5100 5101 5102 5099
CONNECT 5101 5100
CONNECT 5102 5100 5104 5103

CONNECT 5103 5102
CONNECT 5104 5102
CONNECT 5105 5097 5106 5107
CONNECT 5106 5105
CONNECT 5107 5105 5108 5109
CONNECT 5108 5107
CONNECT 5109 5107 5113 5110
CONNECT 5110 5109 5112 5111
CONNECT 5111 5110
CONNECT 5112 5110
CONNECT 5113 5115 5109 5114
CONNECT 5114 5113
CONNECT 5115 5116 5117 5113
CONNECT 5116 5115
CONNECT 5117 5118 5119 5115
CONNECT 5118 5117
CONNECT 5119 5121 5120 5117
CONNECT 5120 5119
CONNECT 5121 5123 5122 5119
CONNECT 5122 5121
CONNECT 5123 5124 5121 5128
CONNECT 5124 5125 5123
CONNECT 5125 5126 5127 5124
CONNECT 5126 5125
CONNECT 5127 5125
CONNECT 5128 5123 5129 5130
CONNECT 5129 5128
CONNECT 5130 5128 5131 5132
CONNECT 5131 5130
CONNECT 5132 5130 5137 5133
CONNECT 5133 5132 5134
CONNECT 5134 5135 5136 5133
CONNECT 5135 5134
CONNECT 5136 5134
CONNECT 5137 5132 5138 5139
CONNECT 5138 5137
CONNECT 5139 5137 5140 5141
CONNECT 5140 5139
CONNECT 5141 5139 5150 5142
CONNECT 5142 5141 5143
CONNECT 5143 5142 5144
CONNECT 5144 5145 5143
CONNECT 5145 5146 5144
CONNECT 5146 5147 5148 5145 5149
CONNECT 5146
CONNECT 5147 5146
CONNECT 5148 5146
CONNECT 5149 5146
CONNECT 5150 5152 5151 5141
CONNECT 5151 5150
CONNECT 5152 5154 5153 5150
CONNECT 5153 5152
CONNECT 5154 5155 5156 5152
CONNECT 5155 5154
CONNECT 5156 5158 5157 5154
CONNECT 5157 5156
CONNECT 5158 5160 5159 5156
CONNECT 5159 5158
CONNECT 5160 5161 5158 5173
CONNECT 5161 5162 5160
CONNECT 5162 5163 5161
CONNECT 5163 5162 5164
CONNECT 5164 5163 5166 5165
CONNECT 5165 5164
CONNECT 5166 5167 5164 5170
CONNECT 5167 5168 5169 5166
CONNECT 5168 5167
CONNECT 5169 5167
CONNECT 5170 5166 5172 5171
CONNECT 5171 5170
CONNECT 5172 5170
CONNECT 5173 5160 5174 5175
CONNECT 5174 5173
CONNECT 5175 5173 5176 5177

CONNECT 5176 5175
CONNECT 5177 5175 5186 5178
CONNECT 5178 5177 5179
CONNECT 5179 5180 5178
CONNECT 5180 5181 5179
CONNECT 5181 5182 5180
CONNECT 5182 5184 5183 5185 5181
CONNECT 5182
CONNECT 5183 5182
CONNECT 5184 5182
CONNECT 5185 5182
CONNECT 5186 5177 5187 5188
CONNECT 5187 5186
CONNECT 5188 5186 5189 5190
CONNECT 5189 5188
CONNECT 5190 5191 5188
CONNECT 5191 5193 5192 5190
CONNECT 5192 5191
CONNECT 5193 5195 5194 5191
CONNECT 5194 5193
CONNECT 5195 5196 5208 5193
CONNECT 5196 5197 5195
CONNECT 5197 5198 5196
CONNECT 5198 5199 5197
CONNECT 5199 5198 5200 5201
CONNECT 5200 5199
CONNECT 5201 5199 5202 5205
CONNECT 5202 5204 5201 5203
CONNECT 5203 5202
CONNECT 5204 5202
CONNECT 5205 5201 5207 5206
CONNECT 5206 5205
CONNECT 5207 5205
CONNECT 5208 5210 5209 5195
CONNECT 5209 5208
CONNECT 5210 5212 5211 5208
CONNECT 5211 5210
CONNECT 5212 5217 5213 5210
CONNECT 5213 5216 5214 5212
CONNECT 5214 5213 5215
CONNECT 5215 5214
CONNECT 5216 5213
CONNECT 5217 5218 5219 5212
CONNECT 5218 5217
CONNECT 5219 5221 5217 5220
CONNECT 5220 5219
CONNECT 5221 5226 5222 5219
CONNECT 5222 5221 5223 5225
CONNECT 5223 5222 5224
CONNECT 5224 5223
CONNECT 5225 5222
CONNECT 5226 5228 5227 5221
CONNECT 5227 5226
CONNECT 5228 5230 5229 5226
CONNECT 5229 5228
CONNECT 5230 5231 5235 5228
CONNECT 5231 5232 5233 5230
CONNECT 5232 5234 5231
CONNECT 5233 5231
CONNECT 5234 5232
CONNECT 5235 5236 5237 5230
CONNECT 5236 5235
CONNECT 5237 5239 5235 5238
CONNECT 5238 5237
CONNECT 5239 5243 5237 5240
CONNECT 5240 5239 5242 5241
CONNECT 5241 5240
CONNECT 5242 5240
CONNECT 5243 5245 5244 5239
CONNECT 5244 5243
CONNECT 5245 5247 5246 5243
CONNECT 5246 5245
CONNECT 5247 5248 5252 5245
CONNECT 5248 5249 5250 5247

CONECT 5249 5251 5248
CONECT 5250 5248
CONECT 5251 5249
CONECT 5252 5253 5247 5254
CONECT 5253 5252
CONECT 5254 5252 5256 5255
CONECT 5255 5254
CONECT 5256 5258 5254 5257
CONECT 5257 5256
CONECT 5258 5260 5256 5259
CONECT 5259 5258
CONECT 5260 5261 5262 5258
CONECT 5261 5260
CONECT 5262 5266 5260 5271
CONECT 5263 5270 5264 5265
CONECT 5264 5263
CONECT 5265 5263 5269 5266
CONECT 5266 5265 5262
CONECT 5267 5268 5270 5269
CONECT 5268 5267
CONECT 5269 5267 5265
CONECT 5270 5267 5263
CONECT 5271 5262 5272 5273
CONECT 5272 5271
CONECT 5273 5271 5274 5275
CONECT 5274 5273
CONECT 5275 5273 5288 5276
CONECT 5276 5275 5277
CONECT 5277 5278 5276
CONECT 5278 5279 5277
CONECT 5279 5280 5281 5278
CONECT 5280 5279
CONECT 5281 5285 5279 5282
CONECT 5282 5281 5283 5284
CONECT 5283 5282
CONECT 5284 5282
CONECT 5285 5287 5286 5281
CONECT 5286 5285
CONECT 5287 5285
CONECT 5288 5275 5290 5289
CONECT 5289 5288
CONECT 5290 5291 5288 5292
CONECT 5291 5290
CONECT 5292 5290 5293 5297
CONECT 5293 5294 5292
CONECT 5294 5296 5295 5293
CONECT 5295 5294
CONECT 5296 5294
CONECT 5297 5292 5299 5298
CONECT 5298 5297
CONECT 5299 5300 5297 5301
CONECT 5300 5299
CONECT 5301 5299 5302 5305
CONECT 5302 5303 5301
CONECT 5303 5304 5302
CONECT 5304 5303
CONECT 5305 5307 5301 5306
CONECT 5306 5305
CONECT 5307 5308 5309 5305
CONECT 5308 5307
CONECT 5309 5310 5307 5314
CONECT 5310 5311 5313 5309
CONECT 5311 5312 5310
CONECT 5312 5311
CONECT 5313 5310
CONECT 5314 5316 5309 5315
CONECT 5315 5314
CONECT 5316 5317 5318 5314
CONECT 5317 5316
CONECT 5318 5319 5316 5322
CONECT 5319 5321 5320 5318
CONECT 5320 5319
CONECT 5321 5319
CONECT 5322 5318 5323 5324

CONNECT 5323 5322
CONNECT 5324 5322 5325 5326
CONNECT 5325 5324
CONNECT 5326 5324 5339 5327
CONNECT 5327 5326 5328
CONNECT 5328 5327 5329
CONNECT 5329 5330 5328
CONNECT 5330 5331 5332 5329
CONNECT 5331 5330
CONNECT 5332 5336 5330 5333
CONNECT 5333 5332 5335 5334
CONNECT 5334 5333
CONNECT 5335 5333
CONNECT 5336 5337 5338 5332
CONNECT 5337 5336
CONNECT 5338 5336
CONNECT 5339 5326 5340 5341
CONNECT 5340 5339
CONNECT 5341 5339 5342 5343
CONNECT 5342 5341
CONNECT 5343 5341 5350 5344
CONNECT 5344 5345 5343
CONNECT 5345 5346 5347 5344
CONNECT 5346 5345
CONNECT 5347 5349 5345 5348
CONNECT 5348 5347
CONNECT 5349 5347
CONNECT 5350 5352 5351 5343
CONNECT 5351 5350
CONNECT 5352 5354 5353 5350
CONNECT 5353 5352
CONNECT 5354 5355 5356 5352
CONNECT 5355 5354
CONNECT 5356 5354 5358 5357
CONNECT 5357 5356
CONNECT 5358 5359 5356 5360
CONNECT 5359 5358
CONNECT 5360 5365 5358 5361
CONNECT 5361 5360 5362
CONNECT 5362 5361 5363 5364
CONNECT 5363 5362
CONNECT 5364 5362
CONNECT 5365 5367 5366 5360
CONNECT 5366 5365
CONNECT 5367 5369 5368 5365
CONNECT 5368 5367
CONNECT 5369 5373 5370 5367
CONNECT 5370 5372 5371 5369
CONNECT 5371 5370
CONNECT 5372 5370
CONNECT 5373 5375 5374 5369
CONNECT 5374 5373
CONNECT 5375 5377 5376 5373
CONNECT 5376 5375
CONNECT 5377 5382 5378 5375
CONNECT 5378 5380 5377 5379
CONNECT 5379 5378 5381
CONNECT 5380 5378
CONNECT 5381 5379
CONNECT 5382 5384 5383 5377
CONNECT 5383 5382
CONNECT 5384 5386 5385 5382
CONNECT 5385 5384
CONNECT 5386 5388 5387 5384
CONNECT 5387 5386
CONNECT 5388 5390 5389 5386
CONNECT 5389 5388
CONNECT 5390 5392 5391 5388
CONNECT 5391 5390
CONNECT 5392 5393 5390
CONNECT 5393 5395 5394 5392
CONNECT 5394 5393
CONNECT 5395 5397 5396 5393
CONNECT 5396 5395

CONECT 5397 5405 5398 5395
CONECT 5398 5397 5399
CONECT 5399 5400 5398 5401
CONECT 5400 5402 5399
CONECT 5401 5399 5403
CONECT 5402 5400 5404
CONECT 5403 5404 5401
CONECT 5404 5402 5403
CONECT 5405 5407 5406 5397
CONECT 5406 5405
CONECT 5407 5409 5408 5405
CONECT 5408 5407
CONECT 5409 5414 5410 5407
CONECT 5410 5411 5409
CONECT 5411 5413 5412 5410
CONECT 5412 5411
CONECT 5413 5411
CONECT 5414 5415 5416 5409
CONECT 5415 5414
CONECT 5416 5418 5417 5414
CONECT 5417 5416
CONECT 5418 5419 5423 5416
CONECT 5419 5420 5418
CONECT 5420 5422 5421 5419
CONECT 5421 5420
CONECT 5422 5420
CONECT 5423 5424 5418 5425
CONECT 5424 5423
CONECT 5425 5423 5427 5426
CONECT 5426 5425
CONECT 5427 5425 5428
CONECT 5428 5429 5427 5430
CONECT 5429 5428
CONECT 5430 5428 5432 5431
CONECT 5431 5430
CONECT 5432 5433 5430 5436
CONECT 5433 5434 5432 5435
CONECT 5434 5433
CONECT 5435 5433
CONECT 5436 5432 5438 5437
CONECT 5437 5436
CONECT 5438 5439 5436 5440
CONECT 5439 5438
CONECT 5440 5438 5441 5445
CONECT 5441 5443 5440 5442
CONECT 5442 5441 5444
CONECT 5443 5441
CONECT 5444 5442
CONECT 5445 5440 5446 5447
CONECT 5446 5445
CONECT 5447 5445 5448 5449
CONECT 5448 5447
CONECT 5449 5447 5450 5453
CONECT 5450 5451 5452 5449
CONECT 5451 5450
CONECT 5452 5450
CONECT 5453 5449 5454 5455
CONECT 5454 5453
CONECT 5455 5453 5456 5457
CONECT 5456 5455
CONECT 5457 5455 5458 5463
CONECT 5458 5459 5457
CONECT 5459 5460 5458
CONECT 5460 5459 5461 5462
CONECT 5461 5460
CONECT 5462 5460
CONECT 5463 5457 5464 5465
CONECT 5464 5463
CONECT 5465 5463 5466 5467
CONECT 5466 5465
CONECT 5467 5465 5468 5476
CONECT 5468 5469 5467
CONECT 5469 5470 5468
CONECT 5470 5469 5471

CONNECT 5471 5470 5472
CONNECT 5472 5471 5475 5474 5473
CONNECT 5472
CONNECT 5473 5472
CONNECT 5474 5472
CONNECT 5475 5472
CONNECT 5476 5467 5477 5478
CONNECT 5477 5476
CONNECT 5478 5476 5479 5480
CONNECT 5479 5478
CONNECT 5480 5478 5481
CONNECT 5481 5482 5480 5483
CONNECT 5482 5481
CONNECT 5483 5481 5484 5485
CONNECT 5484 5483
CONNECT 5485 5483 5492 5486
CONNECT 5486 5485 5487
CONNECT 5487 5486 5488 5489
CONNECT 5488 5487
CONNECT 5489 5487 5491 5490
CONNECT 5490 5489
CONNECT 5491 5489
CONNECT 5492 5493 5494 5485
CONNECT 5493 5492
CONNECT 5494 5496 5492 5495
CONNECT 5495 5494
CONNECT 5496 5505 5494 5500
CONNECT 5497 5498 5504 5499
CONNECT 5498 5497
CONNECT 5499 5497 5500 5503
CONNECT 5500 5496 5499
CONNECT 5501 5504 5502 5503
CONNECT 5502 5501
CONNECT 5503 5501 5499
CONNECT 5504 5497 5501
CONNECT 5505 5506 5496 5507
CONNECT 5506 5505
CONNECT 5507 5505 5509 5508
CONNECT 5508 5507
CONNECT 5509 5514 5507 5510
CONNECT 5510 5509 5511
CONNECT 5511 5510 5512 5513
CONNECT 5512 5511
CONNECT 5513 5511
CONNECT 5514 5515 5516 5509
CONNECT 5515 5514
CONNECT 5516 5518 5514 5517
CONNECT 5517 5516
CONNECT 5518 5524 5519 5516
CONNECT 5519 5518 5520
CONNECT 5520 5519 5521
CONNECT 5521 5522 5520 5523
CONNECT 5522 5521
CONNECT 5523 5521
CONNECT 5524 5526 5525 5518
CONNECT 5525 5524
CONNECT 5526 5528 5527 5524
CONNECT 5527 5526
CONNECT 5528 5529 5533 5526
CONNECT 5529 5530 5528
CONNECT 5530 5532 5529 5531
CONNECT 5531 5530
CONNECT 5532 5530
CONNECT 5533 5534 5528 5535
CONNECT 5534 5533
CONNECT 5535 5533 5537 5536
CONNECT 5536 5535
CONNECT 5537 5535 5542 5538
CONNECT 5538 5537 5539
CONNECT 5539 5540 5538
CONNECT 5540 5541 5539
CONNECT 5541 5540
CONNECT 5542 5543 5537 5544
CONNECT 5543 5542

CONNECT 5544 5542 5546 5545
CONNECT 5545 5544
CONNECT 5546 5555 5544 5547
CONNECT 5547 5546 5548
CONNECT 5548 5549 5547
CONNECT 5549 5550 5548
CONNECT 5550 5551 5549
CONNECT 5551 5554 5552 5553 5550
CONNECT 5551
CONNECT 5552 5551
CONNECT 5553 5551
CONNECT 5554 5551
CONNECT 5555 5557 5556 5546
CONNECT 5556 5555
CONNECT 5557 5559 5558 5555
CONNECT 5558 5557
CONNECT 5559 5565 5560 5557
CONNECT 5560 5561 5559
CONNECT 5561 5562 5560
CONNECT 5562 5564 5561 5563
CONNECT 5563 5562
CONNECT 5564 5562
CONNECT 5565 5566 5567 5559
CONNECT 5566 5565
CONNECT 5567 5569 5565 5568
CONNECT 5568 5567
CONNECT 5569 5578 5570 5567
CONNECT 5570 5571 5569
CONNECT 5571 5572 5570
CONNECT 5572 5573 5571
CONNECT 5573 5574 5572
CONNECT 5574 5575 5577 5576 5573
CONNECT 5574
CONNECT 5575 5574
CONNECT 5576 5574
CONNECT 5577 5574
CONNECT 5578 5579 5580 5569
CONNECT 5579 5578
CONNECT 5580 5582 5578 5581
CONNECT 5581 5580
CONNECT 5582 5583 5580
CONNECT 5583 5585 5584 5582
CONNECT 5584 5583
CONNECT 5585 5587 5586 5583
CONNECT 5586 5585
CONNECT 5587 5588 5585 5592
CONNECT 5588 5589 5590 5587
CONNECT 5589 5591 5588
CONNECT 5590 5588
CONNECT 5591 5589
CONNECT 5592 5587 5593 5594
CONNECT 5593 5592
CONNECT 5594 5592 5595 5596
CONNECT 5595 5594
CONNECT 5596 5594 5606 5597
CONNECT 5597 5596 5598
CONNECT 5598 5597 5599 5600
CONNECT 5599 5598 5601
CONNECT 5600 5598 5602
CONNECT 5601 5599 5603
CONNECT 5602 5600 5603
CONNECT 5603 5601 5602 5604
CONNECT 5604 5603 5605
CONNECT 5605 5604
CONNECT 5606 5596 5607 5608
CONNECT 5607 5606
CONNECT 5608 5606 5609 5610
CONNECT 5609 5608
CONNECT 5610 5618 5608 5611
CONNECT 5611 5610 5612
CONNECT 5612 5614 5611 5613
CONNECT 5613 5612 5615
CONNECT 5614 5616 5612
CONNECT 5615 5617 5613

CONNECT 5616 5614 5617
CONNECT 5617 5616 5615
CONNECT 5618 5620 5619 5610
CONNECT 5619 5618
CONNECT 5620 5622 5621 5618
CONNECT 5621 5620
CONNECT 5622 5623 5631 5620
CONNECT 5623 5624 5622
CONNECT 5624 5625 5623
CONNECT 5625 5626 5624
CONNECT 5626 5627 5625
CONNECT 5627 5628 5630 5629 5626
CONNECT 5627
CONNECT 5628 5627
CONNECT 5629 5627
CONNECT 5630 5627
CONNECT 5631 5632 5633 5622
CONNECT 5632 5631
CONNECT 5633 5635 5631 5634
CONNECT 5634 5633
CONNECT 5635 5636 5633 5640
CONNECT 5636 5637 5635
CONNECT 5637 5638 5639 5636
CONNECT 5638 5637
CONNECT 5639 5637
CONNECT 5640 5635 5641 5642
CONNECT 5641 5640
CONNECT 5642 5640 5643 5644
CONNECT 5643 5642
CONNECT 5644 5642 5648 5645
CONNECT 5645 5644 5647 5646
CONNECT 5646 5645
CONNECT 5647 5645
CONNECT 5648 5650 5649 5644
CONNECT 5649 5648
CONNECT 5650 5652 5651 5648
CONNECT 5651 5650
CONNECT 5652 5657 5653 5650
CONNECT 5653 5654 5652 5656
CONNECT 5654 5655 5653
CONNECT 5655 5654
CONNECT 5656 5653
CONNECT 5657 5659 5658 5652
CONNECT 5658 5657
CONNECT 5659 5661 5660 5657
CONNECT 5660 5659
CONNECT 5661 5662 5666 5659
CONNECT 5662 5663 5661
CONNECT 5663 5664 5662
CONNECT 5664 5665 5663
CONNECT 5665 5664
CONNECT 5666 5667 5661 5668
CONNECT 5667 5666
CONNECT 5668 5666 5670 5669
CONNECT 5669 5668
CONNECT 5670 5678 5668 5671
CONNECT 5671 5670 5672
CONNECT 5672 5671 5673
CONNECT 5673 5675 5672 5674
CONNECT 5674 5673
CONNECT 5675 5676 5677 5673
CONNECT 5676 5675
CONNECT 5677 5675
CONNECT 5678 5680 5679 5670
CONNECT 5679 5678
CONNECT 5680 5682 5681 5678
CONNECT 5681 5680
CONNECT 5682 5683 5687 5680
CONNECT 5683 5686 5684 5682
CONNECT 5684 5685 5683
CONNECT 5685 5684
CONNECT 5686 5683
CONNECT 5687 5689 5682 5688
CONNECT 5688 5687

CONNECT 5689 5690 5687
CONNECT 5690 5695 5689 5691
CONNECT 5691 5690 5692
CONNECT 5692 5691 5694 5693
CONNECT 5693 5692
CONNECT 5694 5692
CONNECT 5695 5696 5697 5690
CONNECT 5696 5695
CONNECT 5697 5699 5695 5698
CONNECT 5698 5697
CONNECT 5699 5700 5704 5697
CONNECT 5700 5701 5699
CONNECT 5701 5702 5703 5700
CONNECT 5702 5701
CONNECT 5703 5701
CONNECT 5704 5706 5699 5705
CONNECT 5705 5704
CONNECT 5706 5707 5708 5704
CONNECT 5707 5706
CONNECT 5708 5714 5706 5709
CONNECT 5709 5710 5708
CONNECT 5710 5711 5709
CONNECT 5711 5713 5710 5712
CONNECT 5712 5711
CONNECT 5713 5711
CONNECT 5714 5715 5716 5708
CONNECT 5715 5714
CONNECT 5716 5718 5714 5717
CONNECT 5717 5716
CONNECT 5718 5719 5722 5716
CONNECT 5719 5718 5720
CONNECT 5720 5719 5721
CONNECT 5721 5720
CONNECT 5722 5724 5718 5723
CONNECT 5723 5722
CONNECT 5724 5725 5722 5726
CONNECT 5725 5724
CONNECT 5726 5724 5731 5727
CONNECT 5727 5729 5726 5728
CONNECT 5728 5727 5730
CONNECT 5729 5727
CONNECT 5730 5728
CONNECT 5731 5732 5726 5733
CONNECT 5732 5731
CONNECT 5733 5731 5734 5735
CONNECT 5734 5738 5733 5736
CONNECT 5735 5733 5737
CONNECT 5736 5734 5737
CONNECT 5737 5736 5735
CONNECT 5738 5739 5734 5740
CONNECT 5739 5738
CONNECT 5740 5738 5741 5742
CONNECT 5741 5745 5740 5743
CONNECT 5742 5740 5744
CONNECT 5743 5741 5744
CONNECT 5744 5743 5742
CONNECT 5745 5746 5747 5741
CONNECT 5746 5745
CONNECT 5747 5749 5745 5748
CONNECT 5748 5747
CONNECT 5749 5750 5753 5747
CONNECT 5750 5751 5749 5752
CONNECT 5751 5750
CONNECT 5752 5750
CONNECT 5753 5755 5749 5754
CONNECT 5754 5753
CONNECT 5755 5756 5757 5753
CONNECT 5756 5755
CONNECT 5757 5761 5758 5755
CONNECT 5758 5757 5759
CONNECT 5759 5758 5760
CONNECT 5760 5759
CONNECT 5761 5762 5763 5757
CONNECT 5762 5761

CONNECT 5763 5765 5761 5764
CONNECT 5764 5763
CONNECT 5765 5773 5766 5763
CONNECT 5766 5765 5767
CONNECT 5767 5766 5769 5768
CONNECT 5768 5767 5770
CONNECT 5769 5767 5771
CONNECT 5770 5768 5772
CONNECT 5771 5769 5772
CONNECT 5772 5771 5770
CONNECT 5773 5775 5765 5774
CONNECT 5774 5773
CONNECT 5775 5777 5776 5773
CONNECT 5776 5775
CONNECT 5777 5778 5789 5775
CONNECT 5778 5779 5777
CONNECT 5779 5780 5778 5781
CONNECT 5780 5785 5784 5779
CONNECT 5781 5779 5782
CONNECT 5782 5784 5783 5781
CONNECT 5783 5782
CONNECT 5784 5786 5780 5782
CONNECT 5785 5787 5780
CONNECT 5786 5788 5784
CONNECT 5787 5788 5785
CONNECT 5788 5787 5786
CONNECT 5789 5790 5777 5791
CONNECT 5790 5789
CONNECT 5791 5789 5792 5793
CONNECT 5792 5791
CONNECT 5793 5806 5791 5794
CONNECT 5794 5793 5795
CONNECT 5795 5794 5796
CONNECT 5796 5795 5797
CONNECT 5797 5796 5798 5799
CONNECT 5798 5797
CONNECT 5799 5797 5800 5803
CONNECT 5800 5802 5799 5801
CONNECT 5801 5800
CONNECT 5802 5800
CONNECT 5803 5799 5805 5804
CONNECT 5804 5803
CONNECT 5805 5803
CONNECT 5806 5808 5807 5793
CONNECT 5807 5806
CONNECT 5808 5810 5809 5806
CONNECT 5809 5808
CONNECT 5810 5815 5811 5808
CONNECT 5811 5812 5810 5813
CONNECT 5812 5811 5814
CONNECT 5813 5811
CONNECT 5814 5812
CONNECT 5815 5816 5817 5810
CONNECT 5816 5815
CONNECT 5817 5819 5815 5818
CONNECT 5818 5817
CONNECT 5819 5820 5824 5817
CONNECT 5820 5821 5819
CONNECT 5821 5822 5820
CONNECT 5822 5823 5821
CONNECT 5823 5822
CONNECT 5824 5825 5819 5826
CONNECT 5825 5824
CONNECT 5826 5824 5828 5827
CONNECT 5827 5826
CONNECT 5828 5826 5837 5829
CONNECT 5829 5828 5830
CONNECT 5830 5829 5831
CONNECT 5831 5830 5832
CONNECT 5832 5831 5833
CONNECT 5833 5835 5832 5836 5834
CONNECT 5833
CONNECT 5834 5833
CONNECT 5835 5833

CONNECT 5836 5833
CONNECT 5837 5838 5828 5839
CONNECT 5838 5837
CONNECT 5839 5837 5841 5840
CONNECT 5840 5839
CONNECT 5841 5846 5839 5842
CONNECT 5842 5841 5843
CONNECT 5843 5842 5845 5844
CONNECT 5844 5843
CONNECT 5845 5843
CONNECT 5846 5848 5847 5841
CONNECT 5847 5846
CONNECT 5848 5850 5849 5846
CONNECT 5849 5848
CONNECT 5850 5851 5857 5848
CONNECT 5851 5852 5850
CONNECT 5852 5854 5853 5851
CONNECT 5853 5852
CONNECT 5854 5855 5856 5852
CONNECT 5855 5854
CONNECT 5856 5854
CONNECT 5857 5858 5859 5850
CONNECT 5858 5857
CONNECT 5859 5861 5857 5860
CONNECT 5860 5859
CONNECT 5861 5862 5859 5866
CONNECT 5862 5861 5863
CONNECT 5863 5864 5862 5865
CONNECT 5864 5863
CONNECT 5865 5863
CONNECT 5866 5867 5861 5868
CONNECT 5867 5866
CONNECT 5868 5866 5870 5869
CONNECT 5869 5868
CONNECT 5870 5875 5868 5871
CONNECT 5871 5870 5872 5874
CONNECT 5872 5871 5873
CONNECT 5873 5872
CONNECT 5874 5871
CONNECT 5875 5877 5876 5870
CONNECT 5876 5875
CONNECT 5877 5879 5878 5875
CONNECT 5878 5877
CONNECT 5879 5885 5880 5877
CONNECT 5880 5879 5881
CONNECT 5881 5880 5882
CONNECT 5882 5881 5883 5884
CONNECT 5883 5882
CONNECT 5884 5882
CONNECT 5885 5886 5887 5879
CONNECT 5886 5885
CONNECT 5887 5889 5885 5888
CONNECT 5888 5887
CONNECT 5889 5890 5901 5887
CONNECT 5890 5891 5889
CONNECT 5891 5893 5892 5890
CONNECT 5892 5896 5891 5897
CONNECT 5893 5894 5891
CONNECT 5894 5895 5896 5893
CONNECT 5895 5894
CONNECT 5896 5898 5894 5892
CONNECT 5897 5892 5899
CONNECT 5898 5896 5900
CONNECT 5899 5900 5897
CONNECT 5900 5898 5899
CONNECT 5901 5903 5889 5902
CONNECT 5902 5901
CONNECT 5903 5905 5904 5901
CONNECT 5904 5906 5908 5903
CONNECT 5905 5907 5903
CONNECT 5906 5907 5904
CONNECT 5907 5906 5905
CONNECT 5908 5910 5909 5904
CONNECT 5909 5908

CONECT 5910 5912 5911 5908
CONECT 5911 5910
CONECT 5912 5922 5913 5910
CONECT 5913 5914 5912
CONECT 5914 5915 5916 5913
CONECT 5915 5917 5914
CONECT 5916 5918 5914
CONECT 5917 5919 5915
CONECT 5918 5919 5916
CONECT 5919 5920 5917 5918
CONECT 5920 5921 5919
CONECT 5921 5920
CONECT 5922 5923 5924 5912
CONECT 5923 5922
CONECT 5924 5926 5922 5925
CONECT 5925 5924
CONECT 5926 5934 5927 5924
CONECT 5927 5928 5926
CONECT 5928 5929 5927 5930
CONECT 5929 5931 5928
CONECT 5930 5928 5932
CONECT 5931 5929 5933
CONECT 5932 5933 5930
CONECT 5933 5931 5932
CONECT 5934 5935 5936 5926
CONECT 5935 5934
CONECT 5936 5938 5934 5937
CONECT 5937 5936
CONECT 5938 5942 5939 5936
CONECT 5939 5940 5941 5938
CONECT 5940 5939
CONECT 5941 5939
CONECT 5942 5944 5943 5938
CONECT 5943 5942
CONECT 5944 5946 5945 5942
CONECT 5945 5944
CONECT 5946 5947 5950 5944
CONECT 5947 5949 5946 5948
CONECT 5948 5947
CONECT 5949 5947
CONECT 5950 5951 5946 5952
CONECT 5951 5950
CONECT 5952 5950 5954 5953
CONECT 5953 5952
CONECT 5954 5955 5952
CONECT 5955 5956 5954 5957
CONECT 5956 5955
CONECT 5957 5955 5959 5958
CONECT 5958 5957
CONECT 5959 5963 5957 5960
CONECT 5960 5959 5962 5961
CONECT 5961 5960
CONECT 5962 5960
CONECT 5963 5965 5964 5959
CONECT 5964 5963
CONECT 5965 5967 5966 5963
CONECT 5966 5965
CONECT 5967 5975 5968 5965
CONECT 5968 5969 5967
CONECT 5969 5970 5971 5968
CONECT 5970 5972 5969
CONECT 5971 5973 5969
CONECT 5972 5974 5970
CONECT 5973 5974 5971
CONECT 5974 5972 5973
CONECT 5975 5976 5977 5967
CONECT 5976 5975
CONECT 5977 5979 5978 5975
CONECT 5978 5977
CONECT 5979 5980 5982 5977
CONECT 5980 5979 5981
CONECT 5981 5980
CONECT 5982 5983 5979 5984
CONECT 5983 5982

CONECT 5984 5982 5986 5985
CONECT 5985 5984
CONECT 5986 5988 5984 5987
CONECT 5987 5986
CONECT 5988 5989 5990 5986
CONECT 5989 5988
CONECT 5990 5992 5988 5991
CONECT 5991 5990
CONECT 5992 5997 5993 5990
CONECT 5993 5995 5992 5994
CONECT 5994 5993 5996
CONECT 5995 5993
CONECT 5996 5994
CONECT 5997 5999 5998 5992
CONECT 5998 5997
CONECT 5999 6001 6000 5997
CONECT 6000 5999
CONECT 6001 6002 6006 5999
CONECT 6002 6003 6004 6001
CONECT 6003 6005 6002
CONECT 6004 6002
CONECT 6005 6003
CONECT 6006 6007 6001 6008
CONECT 6007 6006
CONECT 6008 6010 6006 6009
CONECT 6009 6008
CONECT 6010 6017 6011 6008
CONECT 6011 6010 6012
CONECT 6012 6011 6014 6013
CONECT 6013 6012
CONECT 6014 6016 6012 6015
CONECT 6015 6014
CONECT 6016 6014
CONECT 6017 6018 6010 6019
CONECT 6018 6017
CONECT 6019 6017 6021 6020
CONECT 6020 6019
CONECT 6021 6022 6019
CONECT 6022 6023 6024 6021
CONECT 6023 6022
CONECT 6024 6026 6022 6025
CONECT 6025 6024
CONECT 6026 6027 6024
CONECT 6027 6028 6029 6026
CONECT 6028 6027
CONECT 6029 6031 6027 6030
CONECT 6030 6029
CONECT 6031 6036 6032 6029
CONECT 6032 6033 6031
CONECT 6033 6034 6035 6032
CONECT 6034 6033
CONECT 6035 6033
CONECT 6036 6037 6031 6038
CONECT 6037 6036
CONECT 6038 6036 6040 6039
CONECT 6039 6038
CONECT 6040 6048 6038 6041
CONECT 6041 6040 6042
CONECT 6042 6043 6041
CONECT 6043 6045 6044 6042
CONECT 6044 6043
CONECT 6045 6047 6046 6043
CONECT 6046 6045
CONECT 6047 6045
CONECT 6048 6049 6040 6050
CONECT 6049 6048
CONECT 6050 6048 6051 6052
CONECT 6051 6055 6050 6053
CONECT 6052 6050 6054
CONECT 6053 6051 6054
CONECT 6054 6053 6052
CONECT 6055 6056 6057 6051
CONECT 6056 6055
CONECT 6057 6059 6055 6058

CONNECT 6058 6057
CONNECT 6059 6061 6060 6057
CONNECT 6060 6059
CONNECT 6061 6062 6063 6059
CONNECT 6062 6061
CONNECT 6063 6065 6061 6064
CONNECT 6064 6063
CONNECT 6065 6073 6066 6063
CONNECT 6066 6067 6065
CONNECT 6067 6068 6069 6066
CONNECT 6068 6070 6067
CONNECT 6069 6071 6067
CONNECT 6070 6072 6068
CONNECT 6071 6072 6069
CONNECT 6072 6070 6071
CONNECT 6073 6074 6065 6075
CONNECT 6074 6073
CONNECT 6075 6073 6077 6076
CONNECT 6076 6075
CONNECT 6077 6079 6075 6078
CONNECT 6078 6077
CONNECT 6079 6080 6081 6077
CONNECT 6080 6079
CONNECT 6081 6083 6079 6082
CONNECT 6082 6081
CONNECT 6083 6088 6084 6081
CONNECT 6084 6085 6083 6086
CONNECT 6085 6087 6084
CONNECT 6086 6084
CONNECT 6087 6085
CONNECT 6088 6089 6090 6083
CONNECT 6089 6088
CONNECT 6090 6092 6088 6091
CONNECT 6091 6090
CONNECT 6092 6097 6093 6090
CONNECT 6093 6094 6092 6095
CONNECT 6094 6096 6093
CONNECT 6095 6093
CONNECT 6096 6094
CONNECT 6097 6098 6099 6092
CONNECT 6098 6097
CONNECT 6099 6097 6101 6100
CONNECT 6100 6099
CONNECT 6101 6109 6099 6102
CONNECT 6102 6101 6103
CONNECT 6103 6104 6102 6105
CONNECT 6104 6106 6103
CONNECT 6105 6103 6107
CONNECT 6106 6104 6108
CONNECT 6107 6108 6105
CONNECT 6108 6106 6107
CONNECT 6109 6110 6101 6111
CONNECT 6110 6109
CONNECT 6111 6109 6113 6112
CONNECT 6112 6111
CONNECT 6113 6117 6111 6114
CONNECT 6114 6113 6115
CONNECT 6115 6114 6116
CONNECT 6116 6115
CONNECT 6117 6118 6119 6113
CONNECT 6118 6117
CONNECT 6119 6121 6117 6120
CONNECT 6120 6119
CONNECT 6121 6130 6122 6119
CONNECT 6122 6123 6121
CONNECT 6123 6124 6122
CONNECT 6124 6125 6123
CONNECT 6125 6126 6124
CONNECT 6126 6127 6128 6129 6125
CONNECT 6126
CONNECT 6127 6126
CONNECT 6128 6126
CONNECT 6129 6126
CONNECT 6130 6131 6132 6121

CONECT 6131 6130
CONECT 6132 6134 6130 6133
CONECT 6133 6132
CONECT 6134 6139 6135 6132
CONECT 6135 6136 6134 6137
CONECT 6136 6138 6135
CONECT 6137 6135
CONECT 6138 6136
CONECT 6139 6140 6134 6141
CONECT 6140 6139
CONECT 6141 6139 6143 6142
CONECT 6142 6141
CONECT 6143 6148 6141 6144
CONECT 6144 6143 6145 6146
CONECT 6145 6144 6147
CONECT 6146 6144
CONECT 6147 6145
CONECT 6148 6149 6143 6150
CONECT 6149 6148
CONECT 6150 6148 6152 6151
CONECT 6151 6150
CONECT 6152 6153 6150
CONECT 6153 6154 6155 6152
CONECT 6154 6153
CONECT 6155 6157 6153 6156
CONECT 6156 6155
CONECT 6157 6161 6158 6155
CONECT 6158 6159 6157 6160
CONECT 6159 6158
CONECT 6160 6158
CONECT 6161 6162 6163 6157
CONECT 6162 6161
CONECT 6163 6165 6161 6164
CONECT 6164 6163
CONECT 6165 6173 6166 6163
CONECT 6166 6167 6165
CONECT 6167 6168 6169 6166
CONECT 6168 6170 6167
CONECT 6169 6171 6167
CONECT 6170 6172 6168
CONECT 6171 6172 6169
CONECT 6172 6170 6171
CONECT 6173 6174 6165 6175
CONECT 6174 6173
CONECT 6175 6173 6177 6176
CONECT 6176 6175
CONECT 6177 6182 6175 6178
CONECT 6178 6177 6181 6179
CONECT 6179 6178 6180
CONECT 6180 6179
CONECT 6181 6178
CONECT 6182 6183 6184 6177
CONECT 6183 6182
CONECT 6184 6186 6182 6185
CONECT 6185 6184
CONECT 6186 6199 6184 6187
CONECT 6187 6186 6188
CONECT 6188 6187 6189
CONECT 6189 6188 6190
CONECT 6190 6189 6191 6192
CONECT 6191 6190
CONECT 6192 6190 6193 6196
CONECT 6193 6195 6192 6194
CONECT 6194 6193
CONECT 6195 6193
CONECT 6196 6192 6198 6197
CONECT 6197 6196
CONECT 6198 6196
CONECT 6199 6201 6186 6200
CONECT 6200 6199
CONECT 6201 6202 6203 6199
CONECT 6202 6201
CONECT 6203 6208 6204 6201
CONECT 6204 6205 6203 6206

CONNECT 6205 6207 6204
CONNECT 6206 6204
CONNECT 6207 6205
CONNECT 6208 6209 6210 6203
CONNECT 6209 6208
CONNECT 6210 6212 6208 6211
CONNECT 6211 6210
CONNECT 6212 6217 6213 6210
CONNECT 6213 6214 6212
CONNECT 6214 6215 6216 6213
CONNECT 6215 6214
CONNECT 6216 6214
CONNECT 6217 6219 6212 6218
CONNECT 6218 6217
CONNECT 6219 6221 6220 6217
CONNECT 6220 6219
CONNECT 6221 6222 6226 6219
CONNECT 6222 6223 6221
CONNECT 6223 6225 6222 6224
CONNECT 6224 6223
CONNECT 6225 6223
CONNECT 6226 6228 6221 6227
CONNECT 6227 6226
CONNECT 6228 6230 6229 6226
CONNECT 6229 6231 6228 6233
CONNECT 6230 6232 6228
CONNECT 6231 6232 6229
CONNECT 6232 6231 6230
CONNECT 6233 6229 6235 6234
CONNECT 6234 6233
CONNECT 6235 6236 6233 6237
CONNECT 6236 6235
CONNECT 6237 6235 6238 6243
CONNECT 6238 6239 6237
CONNECT 6239 6240 6238
CONNECT 6240 6242 6241 6239
CONNECT 6241 6240
CONNECT 6242 6240
CONNECT 6243 6237 6245 6244
CONNECT 6244 6243
CONNECT 6245 6246 6243 6247
CONNECT 6246 6245
CONNECT 6247 6245 6248 6252
CONNECT 6248 6249 6251 6247
CONNECT 6249 6250 6248
CONNECT 6250 6249
CONNECT 6251 6248
CONNECT 6252 6254 6247 6253
CONNECT 6253 6252
CONNECT 6254 6255 6256 6252
CONNECT 6255 6254
CONNECT 6256 6257 6254 6265
CONNECT 6257 6258 6256
CONNECT 6258 6259 6257
CONNECT 6259 6260 6258
CONNECT 6260 6261 6259
CONNECT 6261 6262 6260 6264 6263
CONNECT 6261
CONNECT 6262 6261
CONNECT 6263 6261
CONNECT 6264 6261
CONNECT 6265 6256 6267 6266
CONNECT 6266 6265
CONNECT 6267 6268 6265 6269
CONNECT 6268 6267
CONNECT 6269 6267 6270 6282
CONNECT 6270 6271 6269
CONNECT 6271 6272 6270
CONNECT 6272 6273 6271
CONNECT 6273 6275 6272 6274
CONNECT 6274 6273
CONNECT 6275 6276 6279 6273
CONNECT 6276 6278 6277 6275
CONNECT 6277 6276

CONNECT 6278 6276
CONNECT 6279 6281 6275 6280
CONNECT 6280 6279
CONNECT 6281 6279
CONNECT 6282 6269 6284 6283
CONNECT 6283 6282
CONNECT 6284 6285 6282 6286
CONNECT 6285 6284
CONNECT 6286 6284 6287 6294
CONNECT 6287 6288 6286
CONNECT 6288 6289 6287
CONNECT 6289 6291 6288 6290
CONNECT 6290 6289
CONNECT 6291 6292 6293 6289
CONNECT 6292 6291
CONNECT 6293 6291
CONNECT 6294 6296 6286 6295
CONNECT 6295 6294
CONNECT 6296 6297 6298 6294
CONNECT 6297 6296
CONNECT 6298 6299 6296 6305
CONNECT 6299 6298 6300
CONNECT 6300 6299 6302 6301
CONNECT 6301 6300
CONNECT 6302 6304 6300 6303
CONNECT 6303 6302
CONNECT 6304 6302
CONNECT 6305 6307 6298 6306
CONNECT 6306 6305
CONNECT 6307 6308 6309 6305
CONNECT 6308 6307
CONNECT 6309 6310 6307 6313
CONNECT 6310 6311 6309
CONNECT 6311 6312 6310
CONNECT 6312 6311
CONNECT 6313 6309 6315 6314
CONNECT 6314 6313
CONNECT 6315 6316 6313 6317
CONNECT 6316 6315
CONNECT 6317 6315 6318 6324
CONNECT 6318 6317 6319
CONNECT 6319 6318 6321 6320
CONNECT 6320 6319
CONNECT 6321 6322 6319 6323
CONNECT 6322 6321
CONNECT 6323 6321
CONNECT 6324 6317 6326 6325
CONNECT 6325 6324
CONNECT 6326 6327 6324 6328
CONNECT 6327 6326
CONNECT 6328 6326 6329 6333
CONNECT 6329 6328 6330
CONNECT 6330 6329 6332 6331
CONNECT 6331 6330
CONNECT 6332 6330
CONNECT 6333 6335 6328 6334
CONNECT 6334 6333
CONNECT 6335 6336 6337 6333
CONNECT 6336 6335
CONNECT 6337 6338 6335 6345
CONNECT 6338 6339 6337
CONNECT 6339 6341 6338 6340
CONNECT 6340 6339 6342
CONNECT 6341 6343 6339
CONNECT 6342 6344 6340
CONNECT 6343 6341 6344
CONNECT 6344 6343 6342
CONNECT 6345 6347 6337 6346
CONNECT 6346 6345
CONNECT 6347 6348 6349 6345
CONNECT 6348 6347
CONNECT 6349 6350 6347 6353
CONNECT 6350 6351 6349
CONNECT 6351 6350 6352

CONNECT 6352 6351
CONNECT 6353 6349 6355 6354
CONNECT 6354 6353
CONNECT 6355 6356 6353 6357
CONNECT 6356 6355
CONNECT 6357 6355 6358 6362
CONNECT 6358 6357 6359
CONNECT 6359 6358 6361 6360
CONNECT 6360 6359
CONNECT 6361 6359
CONNECT 6362 6357 6364 6363
CONNECT 6363 6362
CONNECT 6364 6365 6362 6366
CONNECT 6365 6364
CONNECT 6366 6364 6367 6371
CONNECT 6367 6368 6366
CONNECT 6368 6369 6367 6370
CONNECT 6369 6368
CONNECT 6370 6368
CONNECT 6371 6373 6366 6372
CONNECT 6372 6371
CONNECT 6373 6374 6375 6371
CONNECT 6374 6373
CONNECT 6375 6376 6373 6383
CONNECT 6376 6377 6375
CONNECT 6377 6379 6376 6378
CONNECT 6378 6377 6380
CONNECT 6379 6381 6377
CONNECT 6380 6382 6378
CONNECT 6381 6379 6382
CONNECT 6382 6381 6380
CONNECT 6383 6375 6385 6384
CONNECT 6384 6383
CONNECT 6385 6386 6387 6383
CONNECT 6386 6385
CONNECT 6387 6388 6385 6392
CONNECT 6388 6389 6387
CONNECT 6389 6388 6391 6390
CONNECT 6390 6389
CONNECT 6391 6389
CONNECT 6392 6387 6394 6393
CONNECT 6393 6392
CONNECT 6394 6395 6392 6396
CONNECT 6395 6394
CONNECT 6396 6394 6397 6398
CONNECT 6397 6396
CONNECT 6398 6396 6400 6399
CONNECT 6399 6398
CONNECT 6400 6401 6398 6402
CONNECT 6401 6400
CONNECT 6402 6400 6403 6407
CONNECT 6403 6402 6404
CONNECT 6404 6403 6406 6405
CONNECT 6405 6404
CONNECT 6406 6404
CONNECT 6407 6409 6402 6408
CONNECT 6408 6407
CONNECT 6409 6410 6411 6407
CONNECT 6410 6409
CONNECT 6411 6409 6412
CONNECT 6412 6411 6414 6413
CONNECT 6413 6412
CONNECT 6414 6415 6416 6412
CONNECT 6415 6414
CONNECT 6416 6417 6414 6421
CONNECT 6417 6418 6419 6416
CONNECT 6418 6420 6417
CONNECT 6419 6417
CONNECT 6420 6418
CONNECT 6421 6416 6423 6422
CONNECT 6422 6421
CONNECT 6423 6424 6421 6425
CONNECT 6424 6423
CONNECT 6425 6423 6426 6430

CONECT 6426 6427 6425 6428
CONECT 6427 6429 6426
CONECT 6428 6426
CONECT 6429 6427
CONECT 6430 6425 6432 6431
CONECT 6431 6430
CONECT 6432 6433 6430 6434
CONECT 6433 6432
CONECT 6434 6432 6435 6438
CONECT 6435 6434 6436
CONECT 6436 6435 6437
CONECT 6437 6436
CONECT 6438 6440 6434 6439
CONECT 6439 6438
CONECT 6440 6441 6442 6438
CONECT 6441 6440
CONECT 6442 6443 6440 6450
CONECT 6443 6444 6442
CONECT 6444 6443 6446 6445
CONECT 6445 6444 6447
CONECT 6446 6444 6448
CONECT 6447 6445 6449
CONECT 6448 6446 6449
CONECT 6449 6448 6447
CONECT 6450 6442 6452 6451
CONECT 6451 6450
CONECT 6452 6453 6450 6454
CONECT 6453 6452
CONECT 6454 6452 6455 6459
CONECT 6455 6457 6454 6456
CONECT 6456 6455 6458
CONECT 6457 6455
CONECT 6458 6456
CONECT 6459 6454 6461 6460
CONECT 6460 6459
CONECT 6461 6462 6459 6463
CONECT 6462 6461
CONECT 6463 6461 6464 6468
CONECT 6464 6467 6463 6465
CONECT 6465 6464 6466
CONECT 6466 6465
CONECT 6467 6464
CONECT 6468 6463 6470 6469
CONECT 6469 6468
CONECT 6470 6471 6468 6472
CONECT 6471 6470
CONECT 6472 6470 6473 6480
CONECT 6473 6474 6472
CONECT 6474 6475 6473 6476
CONECT 6475 6477 6474
CONECT 6476 6474 6478
CONECT 6477 6475 6479
CONECT 6478 6479 6476
CONECT 6479 6477 6478
CONECT 6480 6482 6472 6481
CONECT 6481 6480
CONECT 6482 6483 6484 6480
CONECT 6483 6482
CONECT 6484 6485 6482 6492
CONECT 6485 6486 6484
CONECT 6486 6485 6487 6488
CONECT 6487 6486 6489
CONECT 6488 6486 6490
CONECT 6489 6487 6491
CONECT 6490 6488 6491
CONECT 6491 6489 6490
CONECT 6492 6484 6494 6493
CONECT 6493 6492
CONECT 6494 6495 6492 6496
CONECT 6495 6494
CONECT 6496 6494 6497 6501
CONECT 6497 6496 6498
CONECT 6498 6497 6500 6499
CONECT 6499 6498

CONNECT 6500 6498
CONNECT 6501 6496 6503 6502
CONNECT 6502 6501
CONNECT 6503 6504 6501 6505
CONNECT 6504 6503
CONNECT 6505 6503 6506 6513
CONNECT 6506 6505 6507
CONNECT 6507 6506 6508
CONNECT 6508 6510 6509 6507
CONNECT 6509 6508
CONNECT 6510 6512 6511 6508
CONNECT 6511 6510
CONNECT 6512 6510
CONNECT 6513 6515 6505 6514
CONNECT 6514 6513
CONNECT 6515 6516 6517 6513
CONNECT 6516 6515
CONNECT 6517 6515 6518
CONNECT 6518 6520 6517 6519
CONNECT 6519 6518
CONNECT 6520 6521 6522 6518
CONNECT 6521 6520
CONNECT 6522 6523 6520 6530
CONNECT 6523 6524 6522
CONNECT 6524 6523 6525 6526
CONNECT 6525 6524 6527
CONNECT 6526 6524 6528
CONNECT 6527 6525 6529
CONNECT 6528 6526 6529
CONNECT 6529 6527 6528
CONNECT 6530 6522 6532 6531
CONNECT 6531 6530
CONNECT 6532 6533 6530 6534
CONNECT 6533 6532
CONNECT 6534 6532 6535 6539
CONNECT 6535 6536 6534 6538
CONNECT 6536 6537 6535
CONNECT 6537 6536
CONNECT 6538 6535
CONNECT 6539 6534 6541 6540
CONNECT 6540 6539
CONNECT 6541 6542 6539 6543
CONNECT 6542 6541
CONNECT 6543 6541 6544 6551
CONNECT 6544 6545 6543
CONNECT 6545 6547 6546 6544
CONNECT 6546 6548 6545
CONNECT 6547 6549 6545
CONNECT 6548 6550 6546
CONNECT 6549 6550 6547
CONNECT 6550 6549 6548
CONNECT 6551 6553 6543 6552
CONNECT 6552 6551
CONNECT 6553 6554 6555 6551
CONNECT 6554 6553
CONNECT 6555 6553 6556
CONNECT 6556 6555 6558 6557
CONNECT 6557 6556
CONNECT 6558 6559 6556 6560
CONNECT 6559 6558
CONNECT 6560 6561 6558 6569
CONNECT 6561 6562 6560
CONNECT 6562 6561 6563
CONNECT 6563 6562 6564
CONNECT 6564 6565 6563
CONNECT 6565 6568 6566 6567 6564
CONNECT 6565
CONNECT 6566 6565
CONNECT 6567 6565
CONNECT 6568 6565
CONNECT 6569 6560 6571 6570
CONNECT 6570 6569
CONNECT 6571 6572 6569 6573
CONNECT 6572 6571

CONNECT 6573 6571 6574 6575
CONNECT 6574 6573
CONNECT 6575 6573 6577 6576
CONNECT 6576 6575
CONNECT 6577 6578 6579 6575
CONNECT 6578 6577
CONNECT 6579 6577 6580
CONNECT 6580 6582 6579 6581
CONNECT 6581 6580
CONNECT 6582 6583 6584 6580
CONNECT 6583 6582
CONNECT 6584 6585 6582 6590
CONNECT 6585 6586 6584
CONNECT 6586 6587 6585
CONNECT 6587 6589 6588 6586
CONNECT 6588 6587
CONNECT 6589 6587
CONNECT 6590 6584 6592 6591
CONNECT 6591 6590
CONNECT 6592 6593 6590 6594
CONNECT 6593 6592
CONNECT 6594 6592 6595 6599
CONNECT 6595 6597 6594 6596
CONNECT 6596 6595 6598
CONNECT 6597 6595
CONNECT 6598 6596
CONNECT 6599 6594 6601 6600
CONNECT 6600 6599
CONNECT 6601 6602 6599 6603
CONNECT 6602 6601
CONNECT 6603 6601 6604 6608
CONNECT 6604 6603 6605
CONNECT 6605 6604 6606 6607
CONNECT 6606 6605
CONNECT 6607 6605
CONNECT 6608 6610 6603 6609
CONNECT 6609 6608
CONNECT 6610 6611 6612 6608
CONNECT 6611 6610
CONNECT 6612 6613 6610 6617
CONNECT 6613 6614 6616 6612
CONNECT 6614 6615 6613
CONNECT 6615 6614
CONNECT 6616 6613
CONNECT 6617 6619 6612 6618
CONNECT 6618 6617
CONNECT 6619 6620 6621 6617
CONNECT 6620 6619
CONNECT 6621 6622 6619 6630
CONNECT 6622 6623 6621
CONNECT 6623 6624 6622
CONNECT 6624 6625 6623
CONNECT 6625 6626 6624
CONNECT 6626 6628 6627 6629 6625
CONNECT 6626
CONNECT 6627 6626
CONNECT 6628 6626
CONNECT 6629 6626
CONNECT 6630 6621 6632 6631
CONNECT 6631 6630
CONNECT 6632 6633 6630 6634
CONNECT 6633 6632
CONNECT 6634 6632 6635 6647
CONNECT 6635 6636 6634
CONNECT 6636 6635 6637
CONNECT 6637 6636 6638
CONNECT 6638 6637 6640 6639
CONNECT 6639 6638
CONNECT 6640 6641 6638 6644
CONNECT 6641 6643 6642 6640
CONNECT 6642 6641
CONNECT 6643 6641
CONNECT 6644 6640 6645 6646
CONNECT 6645 6644

CONNECT 6646 6644
CONNECT 6647 6634 6649 6648
CONNECT 6648 6647
CONNECT 6649 6650 6647 6651
CONNECT 6650 6649
CONNECT 6651 6649 6652 6656
CONNECT 6652 6651 6653
CONNECT 6653 6652 6655 6654
CONNECT 6654 6653
CONNECT 6655 6653
CONNECT 6656 6658 6651 6657
CONNECT 6657 6656
CONNECT 6658 6659 6660 6656
CONNECT 6659 6658
CONNECT 6660 6661 6658 6673
CONNECT 6661 6662 6660
CONNECT 6662 6663 6661
CONNECT 6663 6664 6662
CONNECT 6664 6666 6665 6663
CONNECT 6665 6664
CONNECT 6666 6670 6667 6664
CONNECT 6667 6668 6666 6669
CONNECT 6668 6667
CONNECT 6669 6667
CONNECT 6670 6671 6672 6666
CONNECT 6671 6670
CONNECT 6672 6670
CONNECT 6673 6660 6675 6674
CONNECT 6674 6673
CONNECT 6675 6676 6673 6677
CONNECT 6676 6675
CONNECT 6677 6678 6675 6687
CONNECT 6678 6679 6677
CONNECT 6679 6678 6680 6681
CONNECT 6680 6679 6682
CONNECT 6681 6679 6683
CONNECT 6682 6680 6684
CONNECT 6683 6681 6684
CONNECT 6684 6682 6683 6685
CONNECT 6685 6684 6686
CONNECT 6686 6685
CONNECT 6687 6677 6689 6688
CONNECT 6688 6687
CONNECT 6689 6690 6687 6691
CONNECT 6690 6689
CONNECT 6691 6689 6692 6696
CONNECT 6692 6693 6691
CONNECT 6693 6694 6692
CONNECT 6694 6693 6695
CONNECT 6695 6694
CONNECT 6696 6691 6698 6697
CONNECT 6697 6696
CONNECT 6698 6699 6696 6700
CONNECT 6699 6698
CONNECT 6700 6698 6701 6704
CONNECT 6701 6702 6700 6703
CONNECT 6702 6701
CONNECT 6703 6701
CONNECT 6704 6706 6700 6705
CONNECT 6705 6704
CONNECT 6706 6707 6708 6704
CONNECT 6707 6706
CONNECT 6708 6709 6706 6716
CONNECT 6709 6710 6708
CONNECT 6710 6712 6709 6711
CONNECT 6711 6710 6713
CONNECT 6712 6714 6710
CONNECT 6713 6715 6711
CONNECT 6714 6712 6715
CONNECT 6715 6714 6713
CONNECT 6716 6708 6718 6717
CONNECT 6717 6716
CONNECT 6718 6719 6716 6720
CONNECT 6719 6718

CONNECT 6720 6718 6721 6733
CONNECT 6721 6722 6720
CONNECT 6722 6723 6721
CONNECT 6723 6722 6724
CONNECT 6724 6723 6726 6725
CONNECT 6725 6724
CONNECT 6726 6727 6724 6730
CONNECT 6727 6728 6729 6726
CONNECT 6728 6727
CONNECT 6729 6727
CONNECT 6730 6726 6732 6731
CONNECT 6731 6730
CONNECT 6732 6730
CONNECT 6733 6720 6735 6734
CONNECT 6734 6733
CONNECT 6735 6736 6733 6737
CONNECT 6736 6735
CONNECT 6737 6735 6738 6741
CONNECT 6738 6739 6737
CONNECT 6739 6740 6738
CONNECT 6740 6739
CONNECT 6741 6737 6743 6742
CONNECT 6742 6741
CONNECT 6743 6744 6741 6745
CONNECT 6744 6743
CONNECT 6745 6746 6743 6750
CONNECT 6746 6747 6745
CONNECT 6747 6748 6746
CONNECT 6748 6749 6747
CONNECT 6749 6748
CONNECT 6750 6752 6745 6751
CONNECT 6751 6750
CONNECT 6752 6753 6754 6750
CONNECT 6753 6752
CONNECT 6754 6755 6752 6759
CONNECT 6755 6756 6754
CONNECT 6756 6757 6755 6758
CONNECT 6757 6756
CONNECT 6758 6756
CONNECT 6759 6754 6761 6760
CONNECT 6760 6759
CONNECT 6761 6762 6759 6763
CONNECT 6762 6761
CONNECT 6763 6761 6764 6776
CONNECT 6764 6765 6763
CONNECT 6765 6766 6764
CONNECT 6766 6767 6765
CONNECT 6767 6769 6768 6766
CONNECT 6768 6767
CONNECT 6769 6773 6770 6767
CONNECT 6770 6771 6769 6772
CONNECT 6771 6770
CONNECT 6772 6770
CONNECT 6773 6774 6775 6769
CONNECT 6774 6773
CONNECT 6775 6773
CONNECT 6776 6763 6778 6777
CONNECT 6777 6776
CONNECT 6778 6779 6776 6780
CONNECT 6779 6778
CONNECT 6780 6778 6781 6788
CONNECT 6781 6782 6780
CONNECT 6782 6783 6781
CONNECT 6783 6784 6782 6785
CONNECT 6784 6783
CONNECT 6785 6783 6786 6787
CONNECT 6786 6785
CONNECT 6787 6785
CONNECT 6788 6789 6780 6790
CONNECT 6789 6788
CONNECT 6790 6788 6791 6792
CONNECT 6791 6790
CONNECT 6792 6790 6793 6797
CONNECT 6793 6794 6792

CONNECT 6794 6795 6796 6793
CONNECT 6795 6794
CONNECT 6796 6794
CONNECT 6797 6792 6798 6799
CONNECT 6798 6797
CONNECT 6799 6797 6800 6801
CONNECT 6800 6799
CONNECT 6801 6799 6805 6802
CONNECT 6802 6801 6804 6803
CONNECT 6803 6802
CONNECT 6804 6802
CONNECT 6805 6806 6801 6807
CONNECT 6806 6805
CONNECT 6807 6805 6808 6809
CONNECT 6808 6807
CONNECT 6809 6813 6807 6810
CONNECT 6810 6809 6811
CONNECT 6811 6810 6812
CONNECT 6812 6811
CONNECT 6813 6815 6814 6809
CONNECT 6814 6813
CONNECT 6815 6817 6816 6813
CONNECT 6816 6815
CONNECT 6817 6818 6829 6815
CONNECT 6818 6819 6817
CONNECT 6819 6821 6820 6818
CONNECT 6820 6824 6819 6825
CONNECT 6821 6822 6819
CONNECT 6822 6823 6824 6821
CONNECT 6823 6822
CONNECT 6824 6822 6826 6820
CONNECT 6825 6820 6827
CONNECT 6826 6824 6828
CONNECT 6827 6828 6825
CONNECT 6828 6826 6827
CONNECT 6829 6831 6817 6830
CONNECT 6830 6829
CONNECT 6831 6832 6833 6829
CONNECT 6832 6831
CONNECT 6833 6834 6831 6841
CONNECT 6834 6835 6833
CONNECT 6835 6837 6836 6834
CONNECT 6836 6838 6835
CONNECT 6837 6839 6835
CONNECT 6838 6840 6836
CONNECT 6839 6840 6837
CONNECT 6840 6839 6838
CONNECT 6841 6833 6842 6843
CONNECT 6842 6841
CONNECT 6843 6841 6844 6845
CONNECT 6844 6843
CONNECT 6845 6843 6846 6850
CONNECT 6846 6847 6845
CONNECT 6847 6848 6849 6846
CONNECT 6848 6847
CONNECT 6849 6847
CONNECT 6850 6845 6852 6851
CONNECT 6851 6850
CONNECT 6852 6853 6850 6854
CONNECT 6853 6852
CONNECT 6854 6859 6852 6855
CONNECT 6855 6854 6856
CONNECT 6856 6855 6857 6858
CONNECT 6857 6856
CONNECT 6858 6856
CONNECT 6859 6861 6860 6854
CONNECT 6860 6859
CONNECT 6861 6862 6863 6859
CONNECT 6862 6864 6866 6861
CONNECT 6863 6865 6861
CONNECT 6864 6865 6862
CONNECT 6865 6864 6863
CONNECT 6866 6868 6862 6867
CONNECT 6867 6866

CONNECT 6868 6869 6870 6866
CONNECT 6869 6868
CONNECT 6870 6879 6868 6871
CONNECT 6871 6870 6872
CONNECT 6872 6871 6873
CONNECT 6873 6872 6874
CONNECT 6874 6873 6875
CONNECT 6875 6878 6874 6877 6876
CONNECT 6875
CONNECT 6876 6875
CONNECT 6877 6875
CONNECT 6878 6875
CONNECT 6879 6881 6880 6870
CONNECT 6880 6879
CONNECT 6881 6883 6882 6879
CONNECT 6882 6881
CONNECT 6883 6890 6884 6881
CONNECT 6884 6883 6885
CONNECT 6885 6884 6886 6887
CONNECT 6886 6885
CONNECT 6887 6885 6888 6889
CONNECT 6888 6887
CONNECT 6889 6887
CONNECT 6890 6892 6891 6883
CONNECT 6891 6890
CONNECT 6892 6894 6893 6890
CONNECT 6893 6892
CONNECT 6894 6899 6895 6892
CONNECT 6895 6898 6896 6894
CONNECT 6896 6897 6895
CONNECT 6897 6896
CONNECT 6898 6895
CONNECT 6899 6900 6901 6894
CONNECT 6900 6899
CONNECT 6901 6903 6899 6902
CONNECT 6902 6901
CONNECT 6903 6908 6904 6901
CONNECT 6904 6907 6903 6905
CONNECT 6905 6904 6906
CONNECT 6906 6905
CONNECT 6907 6904
CONNECT 6908 6909 6910 6903
CONNECT 6909 6908
CONNECT 6910 6912 6908 6911
CONNECT 6911 6910
CONNECT 6912 6913 6910
CONNECT 6913 6914 6912 6915
CONNECT 6914 6913
CONNECT 6915 6913 6917 6916
CONNECT 6916 6915
CONNECT 6917 6919 6915 6918
CONNECT 6918 6917
CONNECT 6919 6920 6921 6917
CONNECT 6920 6919
CONNECT 6921 6923 6919 6922
CONNECT 6922 6921
CONNECT 6923 6928 6924 6921
CONNECT 6924 6923 6925
CONNECT 6925 6924 6927 6926
CONNECT 6926 6925
CONNECT 6927 6925
CONNECT 6928 6929 6930 6923
CONNECT 6929 6928
CONNECT 6930 6932 6928 6931
CONNECT 6931 6930
CONNECT 6932 6937 6933 6930
CONNECT 6933 6936 6932 6934
CONNECT 6934 6933 6935
CONNECT 6935 6934
CONNECT 6936 6933
CONNECT 6937 6938 6939 6932
CONNECT 6938 6937
CONNECT 6939 6941 6937 6940
CONNECT 6940 6939

CONNECT 6941 6946 6939 6942
CONNECT 6942 6941 6945 6943
CONNECT 6943 6942 6944
CONNECT 6944 6943
CONNECT 6945 6942
CONNECT 6946 6947 6941 6948
CONNECT 6947 6946
CONNECT 6948 6946 6950 6949
CONNECT 6949 6948
CONNECT 6950 6963 6948 6951
CONNECT 6951 6950 6952
CONNECT 6952 6951 6953
CONNECT 6953 6954 6952
CONNECT 6954 6955 6956 6953
CONNECT 6955 6954
CONNECT 6956 6960 6954 6957
CONNECT 6957 6956 6958 6959
CONNECT 6958 6957
CONNECT 6959 6957
CONNECT 6960 6962 6961 6956
CONNECT 6961 6960
CONNECT 6962 6960
CONNECT 6963 6964 6965 6950
CONNECT 6964 6963
CONNECT 6965 6967 6963 6966
CONNECT 6966 6965
CONNECT 6967 6972 6968 6965
CONNECT 6968 6967 6969
CONNECT 6969 6968 6970 6971
CONNECT 6970 6969
CONNECT 6971 6969
CONNECT 6972 6974 6973 6967
CONNECT 6973 6972
CONNECT 6974 6976 6975 6972
CONNECT 6975 6974
CONNECT 6976 6977 6978 6974
CONNECT 6977 6976
CONNECT 6978 6979 6976 6980
CONNECT 6979 6978
CONNECT 6980 6978 6982 6981
CONNECT 6981 6980
CONNECT 6982 6989 6980 6983
CONNECT 6983 6982 6984
CONNECT 6984 6983 6985 6986
CONNECT 6985 6984
CONNECT 6986 6984 6987 6988
CONNECT 6987 6986
CONNECT 6988 6986
CONNECT 6989 6990 6982 6991
CONNECT 6990 6989
CONNECT 6991 6989 6993 6992
CONNECT 6992 6991
CONNECT 6993 6998 6991 6994
CONNECT 6994 6993 6995
CONNECT 6995 6994 6996 6997
CONNECT 6996 6995
CONNECT 6997 6995
CONNECT 6998 7000 6999 6993
CONNECT 6999 6998
CONNECT 7000 7002 7001 6998
CONNECT 7001 7000
CONNECT 7002 7004 7003 7000
CONNECT 7003 7002
CONNECT 7004 7006 7005 7002
CONNECT 7005 7004
CONNECT 7006 7008 7007 7004
CONNECT 7007 7006
CONNECT 7008 7009 7010 7006
CONNECT 7009 7008
CONNECT 7010 7011 7008 7012
CONNECT 7011 7010
CONNECT 7012 7010 7014 7013
CONNECT 7013 7012
CONNECT 7014 7012 7022 7015

CONECT 7015 7014 7016
CONECT 7016 7017 7015
CONECT 7017 7019 7018 7016
CONECT 7018 7017
CONECT 7019 7020 7021 7017
CONECT 7020 7019
CONECT 7021 7019
CONECT 7022 7023 7014 7024
CONECT 7023 7022
CONECT 7024 7022 7026 7025
CONECT 7025 7024
CONECT 7026 7030 7024 7027
CONECT 7027 7026 7028 7029
CONECT 7028 7027
CONECT 7029 7027
CONECT 7030 7032 7031 7026
CONECT 7031 7030
CONECT 7032 7034 7033 7030
CONECT 7033 7032
CONECT 7034 7035 7043 7032
CONECT 7035 7036 7034
CONECT 7036 7037 7035
CONECT 7037 7038 7036
CONECT 7038 7039 7037
CONECT 7039 7040 7042 7038 7041
CONECT 7039
CONECT 7040 7039
CONECT 7041 7039
CONECT 7042 7039
CONECT 7043 7044 7045 7034
CONECT 7044 7043
CONECT 7045 7047 7043 7046
CONECT 7046 7045
CONECT 7047 7045 7048
CONECT 7048 7049 7047 7050
CONECT 7049 7048
CONECT 7050 7048 7051 7052
CONECT 7051 7050
CONECT 7052 7054 7050 7053
CONECT 7053 7052
CONECT 7054 7056 7055 7052
CONECT 7055 7054
CONECT 7056 7058 7057 7054
CONECT 7057 7056
CONECT 7058 7063 7059 7056
CONECT 7059 7061 7060 7058
CONECT 7060 7062 7059
CONECT 7061 7059
CONECT 7062 7060
CONECT 7063 7065 7064 7058
CONECT 7064 7063
CONECT 7065 7067 7066 7063
CONECT 7066 7065
CONECT 7067 7068 7065
CONECT 7068 7069 7067 7070
CONECT 7069 7068
CONECT 7070 7068 7072 7071
CONECT 7071 7070
CONECT 7072 7070 7076 7073
CONECT 7073 7072 7074
CONECT 7074 7073 7075
CONECT 7075 7074
CONECT 7076 7077 7072 7078
CONECT 7077 7076
CONECT 7078 7076 7080 7079
CONECT 7079 7078
CONECT 7080 7093 7078 7081
CONECT 7081 7080 7082
CONECT 7082 7081 7083
CONECT 7083 7082 7084
CONECT 7084 7083 7085 7086
CONECT 7085 7084
CONECT 7086 7084 7087 7090
CONECT 7087 7088 7086 7089

CONNECT 7088 7087
CONNECT 7089 7087
CONNECT 7090 7086 7091 7092
CONNECT 7091 7090
CONNECT 7092 7090
CONNECT 7093 7095 7094 7080
CONNECT 7094 7093
CONNECT 7095 7097 7096 7093
CONNECT 7096 7095
CONNECT 7097 7102 7098 7095
CONNECT 7098 7099 7097
CONNECT 7099 7100 7101 7098
CONNECT 7100 7099
CONNECT 7101 7099
CONNECT 7102 7103 7104 7097
CONNECT 7103 7102
CONNECT 7104 7106 7102 7105
CONNECT 7105 7104
CONNECT 7106 7107 7108 7104
CONNECT 7107 7106
CONNECT 7108 7109 7106 7110
CONNECT 7109 7108
CONNECT 7110 7108 7112 7111
CONNECT 7111 7110
CONNECT 7112 7116 7110 7113
CONNECT 7113 7112 7114 7115
CONNECT 7114 7113
CONNECT 7115 7113
CONNECT 7116 7117 7118 7112
CONNECT 7117 7116
CONNECT 7118 7120 7116 7119
CONNECT 7119 7118
CONNECT 7120 7125 7121 7118
CONNECT 7121 7123 7120 7122
CONNECT 7122 7121 7124
CONNECT 7123 7121
CONNECT 7124 7122
CONNECT 7125 7127 7126 7120
CONNECT 7126 7125
CONNECT 7127 7129 7128 7125
CONNECT 7128 7127
CONNECT 7129 7130 7134 7127
CONNECT 7130 7131 7129 7133
CONNECT 7131 7132 7130
CONNECT 7132 7131
CONNECT 7133 7130
CONNECT 7134 7135 7136 7129
CONNECT 7135 7134
CONNECT 7136 7138 7134 7137
CONNECT 7137 7136
CONNECT 7138 7146 7136 7139
CONNECT 7139 7138 7140
CONNECT 7140 7139 7141
CONNECT 7141 7140 7143 7142
CONNECT 7142 7141
CONNECT 7143 7145 7144 7141
CONNECT 7144 7143
CONNECT 7145 7143
CONNECT 7146 7147 7138 7148
CONNECT 7147 7146
CONNECT 7148 7146 7150 7149
CONNECT 7149 7148
CONNECT 7150 7157 7148 7151
CONNECT 7151 7150 7152
CONNECT 7152 7153 7151 7154
CONNECT 7153 7152
CONNECT 7154 7152 7156 7155
CONNECT 7155 7154
CONNECT 7156 7154
CONNECT 7157 7158 7159 7150
CONNECT 7158 7157
CONNECT 7159 7161 7157 7160
CONNECT 7160 7159
CONNECT 7161 7166 7162 7159

CONNECT 7162 7164 7161 7163
CONNECT 7163 7162 7165
CONNECT 7164 7162
CONNECT 7165 7163
CONNECT 7166 7167 7168 7161
CONNECT 7167 7166
CONNECT 7168 7170 7166 7169
CONNECT 7169 7168
CONNECT 7170 7171 7172 7168
CONNECT 7171 7170
CONNECT 7172 7173 7170 7174
CONNECT 7173 7172
CONNECT 7174 7172 7176 7175
CONNECT 7175 7174
CONNECT 7176 7174 7183 7177
CONNECT 7177 7176 7178
CONNECT 7178 7179 7177 7180
CONNECT 7179 7178
CONNECT 7180 7178 7181 7182
CONNECT 7181 7180
CONNECT 7182 7180
CONNECT 7183 7184 7176 7185
CONNECT 7184 7183
CONNECT 7185 7183 7187 7186
CONNECT 7186 7185
CONNECT 7187 7192 7185 7188
CONNECT 7188 7187 7189
CONNECT 7189 7190 7188 7191
CONNECT 7190 7189
CONNECT 7191 7189
CONNECT 7192 7193 7194 7187
CONNECT 7193 7192
CONNECT 7194 7196 7192 7195
CONNECT 7195 7194
CONNECT 7196 7197 7194
CONNECT 7197 7199 7198 7196
CONNECT 7198 7197
CONNECT 7199 7201 7200 7197
CONNECT 7200 7199
CONNECT 7201 7202 7206 7199
CONNECT 7202 7205 7203 7201
CONNECT 7203 7204 7202
CONNECT 7204 7203
CONNECT 7205 7202
CONNECT 7206 7207 7201 7208
CONNECT 7207 7206
CONNECT 7208 7206 7210 7209
CONNECT 7209 7208
CONNECT 7210 7211 7208
CONNECT 7211 7212 7210 7213
CONNECT 7212 7211
CONNECT 7213 7211 7215 7214
CONNECT 7214 7213
CONNECT 7215 7220 7213 7216
CONNECT 7216 7215 7217 7218
CONNECT 7217 7216 7219
CONNECT 7218 7216
CONNECT 7219 7217
CONNECT 7220 7221 7222 7215
CONNECT 7221 7220
CONNECT 7222 7224 7223 7220
CONNECT 7223 7222
CONNECT 7224 7229 7225 7222
CONNECT 7225 7227 7224 7226
CONNECT 7226 7225 7228
CONNECT 7227 7225
CONNECT 7228 7226
CONNECT 7229 7231 7230 7224
CONNECT 7230 7229
CONNECT 7231 7233 7232 7229
CONNECT 7232 7231
CONNECT 7233 7234 7238 7231
CONNECT 7234 7236 7233 7235
CONNECT 7235 7234 7237

CONECT 7236 7234
CONECT 7237 7235
CONECT 7238 7239 7233 7240
CONECT 7239 7238
CONECT 7240 7238 7242 7241
CONECT 7241 7240
CONECT 7242 7240 7246 7243
CONECT 7243 7242 7244
CONECT 7244 7243 7245
CONECT 7245 7244
CONECT 7246 7247 7248 7242
CONECT 7247 7246
CONECT 7248 7250 7246 7249
CONECT 7249 7248
CONECT 7250 7258 7251 7248
CONECT 7251 7250 7252
CONECT 7252 7251 7254 7253
CONECT 7253 7252 7255
CONECT 7254 7252 7256
CONECT 7255 7253 7257
CONECT 7256 7254 7257
CONECT 7257 7256 7255
CONECT 7258 7260 7259 7250
CONECT 7259 7258
CONECT 7260 7262 7261 7258
CONECT 7261 7260
CONECT 7262 7263 7267 7260
CONECT 7263 7264 7265 7262
CONECT 7264 7266 7263
CONECT 7265 7263
CONECT 7266 7264
CONECT 7267 7268 7262 7269
CONECT 7268 7267
CONECT 7269 7267 7271 7270
CONECT 7270 7269
CONECT 7271 7269 7281 7272
CONECT 7272 7271 7273
CONECT 7273 7274 7272 7275
CONECT 7274 7276 7273
CONECT 7275 7273 7277
CONECT 7276 7274 7278
CONECT 7277 7278 7275
CONECT 7278 7276 7279 7277
CONECT 7279 7278 7280
CONECT 7280 7279
CONECT 7281 7283 7271 7282
CONECT 7282 7281
CONECT 7283 7284 7285 7281
CONECT 7284 7283
CONECT 7285 7283 7286
CONECT 7286 7285 7287 7288
CONECT 7287 7286
CONECT 7288 7286 7289 7290
CONECT 7289 7288
CONECT 7290 7288 7302 7291
CONECT 7291 7290 7292
CONECT 7292 7294 7291 7293
CONECT 7293 7292 7297 7298
CONECT 7294 7295 7292
CONECT 7295 7296 7294 7297
CONECT 7296 7295
CONECT 7297 7295 7293 7299
CONECT 7298 7293 7300
CONECT 7299 7297 7301
CONECT 7300 7298 7301
CONECT 7301 7299 7300
CONECT 7302 7304 7290 7303
CONECT 7303 7302
CONECT 7304 7305 7306 7302
CONECT 7305 7304
CONECT 7306 7307 7304 7314
CONECT 7307 7308 7306
CONECT 7308 7307 7309
CONECT 7309 7308 7311 7310

CONNECT 7310 7309
CONNECT 7311 7313 7309 7312
CONNECT 7312 7311
CONNECT 7313 7311
CONNECT 7314 7306 7316 7315
CONNECT 7315 7314
CONNECT 7316 7317 7318 7314
CONNECT 7317 7316
CONNECT 7318 7319 7316 7323
CONNECT 7319 7320 7318
CONNECT 7320 7322 7321 7319
CONNECT 7321 7320
CONNECT 7322 7320
CONNECT 7323 7318 7325 7324
CONNECT 7324 7323
CONNECT 7325 7326 7323 7327
CONNECT 7326 7325
CONNECT 7327 7325 7328 7332
CONNECT 7328 7329 7327 7331
CONNECT 7329 7330 7328
CONNECT 7330 7329
CONNECT 7331 7328
CONNECT 7332 7327 7334 7333
CONNECT 7333 7332
CONNECT 7334 7335 7332 7336
CONNECT 7335 7334
CONNECT 7336 7334 7341 7337
CONNECT 7337 7336 7338
CONNECT 7338 7337 7339 7340
CONNECT 7339 7338
CONNECT 7340 7338
CONNECT 7341 7343 7336 7342
CONNECT 7342 7341
CONNECT 7343 7344 7345 7341
CONNECT 7344 7343
CONNECT 7345 7346 7343 7350
CONNECT 7346 7347 7345
CONNECT 7347 7349 7346 7348
CONNECT 7348 7347
CONNECT 7349 7347
CONNECT 7350 7345 7352 7351
CONNECT 7351 7350
CONNECT 7352 7353 7350 7354
CONNECT 7353 7352
CONNECT 7354 7355 7352 7359
CONNECT 7355 7356 7354
CONNECT 7356 7357 7355 7358
CONNECT 7357 7356
CONNECT 7358 7356
CONNECT 7359 7354 7361 7360
CONNECT 7360 7359
CONNECT 7361 7362 7359 7363
CONNECT 7362 7361
CONNECT 7363 7361 7364 7368
CONNECT 7364 7363 7365
CONNECT 7365 7364 7367 7366
CONNECT 7366 7365
CONNECT 7367 7365
CONNECT 7368 7363 7370 7369
CONNECT 7369 7368
CONNECT 7370 7371 7368 7372
CONNECT 7371 7370
CONNECT 7372 7370 7373 7374
CONNECT 7373 7372
CONNECT 7374 7376 7372 7375
CONNECT 7375 7374
CONNECT 7376 7377 7378 7374
CONNECT 7377 7376
CONNECT 7378 7379 7376 7383
CONNECT 7379 7380 7381 7378
CONNECT 7380 7382 7379
CONNECT 7381 7379
CONNECT 7382 7380
CONNECT 7383 7378 7385 7384

CONNECT 7384 7383
CONNECT 7385 7386 7383 7387
CONNECT 7386 7385
CONNECT 7387 7388 7385 7391
CONNECT 7388 7390 7387 7389
CONNECT 7389 7388
CONNECT 7390 7388
CONNECT 7391 7387 7392 7393
CONNECT 7392 7391
CONNECT 7393 7391 7395 7394
CONNECT 7394 7393 7398 7396
CONNECT 7395 7393 7397
CONNECT 7396 7397 7394
CONNECT 7397 7395 7396
CONNECT 7398 7400 7394 7399
CONNECT 7399 7398
CONNECT 7400 7401 7402 7398
CONNECT 7401 7400
CONNECT 7402 7403 7400 7407
CONNECT 7403 7404 7405 7402
CONNECT 7404 7406 7403
CONNECT 7405 7403
CONNECT 7406 7404
CONNECT 7407 7409 7402 7408
CONNECT 7408 7407
CONNECT 7409 7410 7411 7407
CONNECT 7410 7409
CONNECT 7411 7412 7409 7416
CONNECT 7412 7413 7414 7411
CONNECT 7413 7415 7412
CONNECT 7414 7412
CONNECT 7415 7413
CONNECT 7416 7411 7418 7417
CONNECT 7417 7416
CONNECT 7418 7419 7416 7420
CONNECT 7419 7418
CONNECT 7420 7418 7421 7422
CONNECT 7421 7420
CONNECT 7422 7420 7424 7423
CONNECT 7423 7422
CONNECT 7424 7425 7422 7426
CONNECT 7425 7424
CONNECT 7426 7424 7431 7427
CONNECT 7427 7426 7428 7429
CONNECT 7428 7427 7430
CONNECT 7429 7427
CONNECT 7430 7428
CONNECT 7431 7433 7426 7432
CONNECT 7432 7431
CONNECT 7433 7434 7435 7431
CONNECT 7434 7433
CONNECT 7435 7436 7433 7437
CONNECT 7436 7435
CONNECT 7437 7439 7435 7438
CONNECT 7438 7437
CONNECT 7439 7440 7441 7437
CONNECT 7440 7439
CONNECT 7441 7439 7442
CONNECT 7442 7441 7443 7444
CONNECT 7443 7442
CONNECT 7444 7442 7445 7446
CONNECT 7445 7444
CONNECT 7446 7444 7447 7450
CONNECT 7447 7446 7448 7449
CONNECT 7448 7447
CONNECT 7449 7447
CONNECT 7450 7446 7452 7451
CONNECT 7451 7450
CONNECT 7452 7453 7450 7454
CONNECT 7453 7452
CONNECT 7454 7452 7455 7458
CONNECT 7455 7456 7454 7457
CONNECT 7456 7455
CONNECT 7457 7455

CONECT 7458 7460 7454 7459
CONECT 7459 7458
CONECT 7460 7461 7462 7458
CONECT 7461 7460
CONECT 7462 7463 7460 7468
CONECT 7463 7464 7462
CONECT 7464 7465 7463
CONECT 7465 7466 7467 7464
CONECT 7466 7465
CONECT 7467 7465
CONECT 7468 7462 7470 7469
CONECT 7469 7468
CONECT 7470 7471 7468 7472
CONECT 7471 7470
CONECT 7472 7470 7473 7477
CONECT 7473 7472 7474
CONECT 7474 7473 7475
CONECT 7475 7474 7476
CONECT 7476 7475
CONECT 7477 7472 7479 7478
CONECT 7478 7477
CONECT 7479 7480 7477 7481
CONECT 7480 7479
CONECT 7481 7479 7482 7490
CONECT 7482 7481 7483
CONECT 7483 7482 7484
CONECT 7484 7483 7485
CONECT 7485 7484 7486
CONECT 7486 7488 7485 7487 7489
CONECT 7486
CONECT 7487 7486
CONECT 7488 7486
CONECT 7489 7486
CONECT 7490 7492 7481 7491
CONECT 7491 7490
CONECT 7492 7493 7494 7490
CONECT 7493 7492
CONECT 7494 7495 7492 7499
CONECT 7495 7496 7494
CONECT 7496 7497 7495
CONECT 7497 7496 7498
CONECT 7498 7497
CONECT 7499 7501 7494 7500
CONECT 7500 7499
CONECT 7501 7502 7503 7499
CONECT 7502 7501
CONECT 7503 7504 7501 7508
CONECT 7504 7505 7503
CONECT 7505 7506 7507 7504
CONECT 7506 7505
CONECT 7507 7505
CONECT 7508 7503 7509 7510
CONECT 7509 7508
CONECT 7510 7508 7511 7512
CONECT 7511 7510
CONECT 7512 7510 7513 7516
CONECT 7513 7512 7514
CONECT 7514 7513 7515
CONECT 7515 7514
CONECT 7516 7512 7518 7517
CONECT 7517 7516
CONECT 7518 7519 7516 7520
CONECT 7519 7518
CONECT 7520 7518 7521
CONECT 7521 7523 7520 7522
CONECT 7522 7521
CONECT 7523 7524 7525 7521
CONECT 7524 7523
CONECT 7525 7526 7533 7523
CONECT 7526 7527 7525
CONECT 7527 7526 7528
CONECT 7528 7527 7530 7529
CONECT 7529 7528
CONECT 7530 7532 7528 7531

CONNECT 7531 7530
CONNECT 7532 7530
CONNECT 7533 7535 7525 7534
CONNECT 7534 7533
CONNECT 7535 7536 7537 7533
CONNECT 7536 7535
CONNECT 7537 7538 7535 7539
CONNECT 7538 7537
CONNECT 7539 7537 7540 7541
CONNECT 7540 7539
CONNECT 7541 7539 7542 7543
CONNECT 7542 7541
CONNECT 7543 7541 7544 7548
CONNECT 7544 7543 7545
CONNECT 7545 7544 7547 7546
CONNECT 7546 7545
CONNECT 7547 7545
CONNECT 7548 7543 7550 7549
CONNECT 7549 7548
CONNECT 7550 7551 7548 7552
CONNECT 7551 7550
CONNECT 7552 7550 7561 7553
CONNECT 7553 7554 7552
CONNECT 7554 7555 7553
CONNECT 7555 7554 7556
CONNECT 7556 7555 7557
CONNECT 7557 7560 7556 7559 7558
CONNECT 7557
CONNECT 7558 7557
CONNECT 7559 7557
CONNECT 7560 7557
CONNECT 7561 7563 7552 7562
CONNECT 7562 7561
CONNECT 7563 7564 7565 7561
CONNECT 7564 7563
CONNECT 7565 7566 7570 7563
CONNECT 7566 7567 7565
CONNECT 7567 7569 7568 7566
CONNECT 7568 7567
CONNECT 7569 7567
CONNECT 7570 7565 7572 7571
CONNECT 7571 7570
CONNECT 7572 7573 7570 7574
CONNECT 7573 7572
CONNECT 7574 7572 7575 7583
CONNECT 7575 7576 7574
CONNECT 7576 7577 7575
CONNECT 7577 7578 7576
CONNECT 7578 7579 7577
CONNECT 7579 7580 7578 7582 7581
CONNECT 7579
CONNECT 7580 7579
CONNECT 7581 7579
CONNECT 7582 7579
CONNECT 7583 7574 7584 7585
CONNECT 7584 7583
CONNECT 7585 7583 7586 7587
CONNECT 7586 7585
CONNECT 7587 7585 7596 7588
CONNECT 7588 7587 7589
CONNECT 7589 7588 7590
CONNECT 7590 7591 7589
CONNECT 7591 7592 7590
CONNECT 7592 7593 7591 7594 7595
CONNECT 7592
CONNECT 7593 7592
CONNECT 7594 7592
CONNECT 7595 7592
CONNECT 7596 7598 7587 7597
CONNECT 7597 7596
CONNECT 7598 7599 7600 7596
CONNECT 7599 7598
CONNECT 7600 7601 7598 7606
CONNECT 7601 7602 7600

CONNECT 7602 7603 7601
CONNECT 7603 7604 7605 7602
CONNECT 7604 7603
CONNECT 7605 7603
CONNECT 7606 7608 7600 7607
CONNECT 7607 7606
CONNECT 7608 7609 7610 7606
CONNECT 7609 7608
CONNECT 7610 7611 7608 7615
CONNECT 7611 7612 7610
CONNECT 7612 7614 7611 7613
CONNECT 7613 7612
CONNECT 7614 7612
CONNECT 7615 7610 7616 7617
CONNECT 7616 7615
CONNECT 7617 7615 7618 7619
CONNECT 7618 7617
CONNECT 7619 7617 7620 7625
CONNECT 7620 7619 7621
CONNECT 7621 7620 7622
CONNECT 7622 7623 7621 7624
CONNECT 7623 7622
CONNECT 7624 7622
CONNECT 7625 7619 7627 7626
CONNECT 7626 7625
CONNECT 7627 7628 7625 7629
CONNECT 7628 7627
CONNECT 7629 7627 7630
CONNECT 7630 7632 7629 7631
CONNECT 7631 7630
CONNECT 7632 7633 7634 7630
CONNECT 7633 7632
CONNECT 7634 7635 7638 7632
CONNECT 7635 7636 7634
CONNECT 7636 7637 7635
CONNECT 7637 7636
CONNECT 7638 7640 7634 7639
CONNECT 7639 7638
CONNECT 7640 7641 7642 7638
CONNECT 7641 7640
CONNECT 7642 7640 7643
CONNECT 7643 7642 7644 7645
CONNECT 7644 7643
CONNECT 7645 7643 7646 7647
CONNECT 7646 7645
CONNECT 7647 7645 7656 7648
CONNECT 7648 7647 7649
CONNECT 7649 7650 7648
CONNECT 7650 7651 7649
CONNECT 7651 7652 7650
CONNECT 7652 7654 7653 7651 7655
CONNECT 7652
CONNECT 7653 7652
CONNECT 7654 7652
CONNECT 7655 7652
CONNECT 7656 7647 7658 7657
CONNECT 7657 7656
CONNECT 7658 7659 7656 7660
CONNECT 7659 7658
CONNECT 7660 7658 7665 7661
CONNECT 7661 7662 7660 7663
CONNECT 7662 7664 7661
CONNECT 7663 7661
CONNECT 7664 7662
CONNECT 7665 7667 7666 7660
CONNECT 7666 7665
CONNECT 7667 7669 7668 7665
CONNECT 7668 7667
CONNECT 7669 7670 7671 7667
CONNECT 7670 7669
CONNECT 7671 7669 7673 7672
CONNECT 7672 7671
CONNECT 7673 7674 7671 7675
CONNECT 7674 7673

CONNECT 7675 7676 7673 7680
CONNECT 7676 7677 7679 7675
CONNECT 7677 7678 7676
CONNECT 7678 7677
CONNECT 7679 7676
CONNECT 7680 7675 7681 7682
CONNECT 7681 7680
CONNECT 7682 7680 7683 7684
CONNECT 7683 7682
CONNECT 7684 7682 7690 7685
CONNECT 7685 7684 7686
CONNECT 7686 7685 7687
CONNECT 7687 7686 7689 7688
CONNECT 7688 7687
CONNECT 7689 7687
CONNECT 7690 7692 7684 7691
CONNECT 7691 7690
CONNECT 7692 7693 7694 7690
CONNECT 7693 7692
CONNECT 7694 7696 7695 7692
CONNECT 7695 7694
CONNECT 7696 7698 7697 7694
CONNECT 7697 7696
CONNECT 7698 7700 7699 7696
CONNECT 7699 7698
CONNECT 7700 7701 7705 7698
CONNECT 7701 7702 7703 7700
CONNECT 7702 7704 7701
CONNECT 7703 7701
CONNECT 7704 7702
CONNECT 7705 7700 7706 7707
CONNECT 7706 7705
CONNECT 7707 7705 7708 7709
CONNECT 7708 7707
CONNECT 7709 7707 7710 7715
CONNECT 7710 7709 7711
CONNECT 7711 7710 7712
CONNECT 7712 7713 7711 7714
CONNECT 7713 7712
CONNECT 7714 7712
CONNECT 7715 7709 7716 7717
CONNECT 7716 7715
CONNECT 7717 7715 7718 7719
CONNECT 7718 7717
CONNECT 7719 7717 7726 7720
CONNECT 7720 7719 7721
CONNECT 7721 7720 7723 7722
CONNECT 7722 7721
CONNECT 7723 7725 7721 7724
CONNECT 7724 7723
CONNECT 7725 7723
CONNECT 7726 7728 7719 7727
CONNECT 7727 7726
CONNECT 7728 7729 7730 7726
CONNECT 7729 7728
CONNECT 7730 7731 7728 7738
CONNECT 7731 7730 7732
CONNECT 7732 7731 7734 7733
CONNECT 7733 7732 7735
CONNECT 7734 7732 7736
CONNECT 7735 7733 7737
CONNECT 7736 7734 7737
CONNECT 7737 7736 7735
CONNECT 7738 7730 7739 7740
CONNECT 7739 7738
CONNECT 7740 7738 7741 7742
CONNECT 7741 7740
CONNECT 7742 7740 7755 7743
CONNECT 7743 7742 7744
CONNECT 7744 7745 7743
CONNECT 7745 7746 7744
CONNECT 7746 7748 7747 7745
CONNECT 7747 7746
CONNECT 7748 7752 7749 7746

CONNECT 7749 7751 7748 7750
CONNECT 7750 7749
CONNECT 7751 7749
CONNECT 7752 7754 7753 7748
CONNECT 7753 7752
CONNECT 7754 7752
CONNECT 7755 7757 7742 7756
CONNECT 7756 7755
CONNECT 7757 7758 7759 7755
CONNECT 7758 7757
CONNECT 7759 7760 7757 7764
CONNECT 7760 7763 7761 7759
CONNECT 7761 7760 7762
CONNECT 7762 7761
CONNECT 7763 7760
CONNECT 7764 7766 7759 7765
CONNECT 7765 7764
CONNECT 7766 7767 7768 7764
CONNECT 7767 7766
CONNECT 7768 7769 7766 7772
CONNECT 7769 7770 7771 7768
CONNECT 7770 7769
CONNECT 7771 7769
CONNECT 7772 7768 7773 7774
CONNECT 7773 7772
CONNECT 7774 7772 7775 7776
CONNECT 7775 7774
CONNECT 7776 7774 7777 7780
CONNECT 7777 7776 7778 7779
CONNECT 7778 7777
CONNECT 7779 7777
CONNECT 7780 7776 7782 7781
CONNECT 7781 7780
CONNECT 7782 7783 7780 7784
CONNECT 7783 7782
CONNECT 7784 7788 7782 7785
CONNECT 7785 7784 7786
CONNECT 7786 7785 7787
CONNECT 7787 7786
CONNECT 7788 7790 7789 7784
CONNECT 7789 7788
CONNECT 7790 7792 7791 7788
CONNECT 7791 7790
CONNECT 7792 7793 7797 7790
CONNECT 7793 7794 7792
CONNECT 7794 7795 7796 7793
CONNECT 7795 7794
CONNECT 7796 7794
CONNECT 7797 7798 7792 7799
CONNECT 7798 7797
CONNECT 7799 7797 7800 7801
CONNECT 7800 7799
CONNECT 7801 7806 7799 7802
CONNECT 7802 7801 7803 7805
CONNECT 7803 7802 7804
CONNECT 7804 7803
CONNECT 7805 7802
CONNECT 7806 7808 7807 7801
CONNECT 7807 7806
CONNECT 7808 7810 7809 7806
CONNECT 7809 7808
CONNECT 7810 7818 7811 7808
CONNECT 7811 7810 7812
CONNECT 7812 7811 7813
CONNECT 7813 7815 7812 7814
CONNECT 7814 7813
CONNECT 7815 7817 7816 7813
CONNECT 7816 7815
CONNECT 7817 7815
CONNECT 7818 7820 7819 7810
CONNECT 7819 7818
CONNECT 7820 7822 7821 7818
CONNECT 7821 7820
CONNECT 7822 7828 7823 7820

CONNECT 7823 7822 7824
CONNECT 7824 7825 7823
CONNECT 7825 7827 7826 7824
CONNECT 7826 7825
CONNECT 7827 7825
CONNECT 7828 7830 7829 7822
CONNECT 7829 7828
CONNECT 7830 7832 7831 7828
CONNECT 7831 7830
CONNECT 7832 7833 7840 7830
CONNECT 7833 7834 7832
CONNECT 7834 7835 7833
CONNECT 7835 7837 7836 7834
CONNECT 7836 7835
CONNECT 7837 7839 7838 7835
CONNECT 7838 7837
CONNECT 7839 7837
CONNECT 7840 7832 7841 7842
CONNECT 7841 7840
CONNECT 7842 7840 7843 7844
CONNECT 7843 7842
CONNECT 7844 7842 7853 7845
CONNECT 7845 7844 7846
CONNECT 7846 7845 7847
CONNECT 7847 7846 7848
CONNECT 7848 7847 7849
CONNECT 7849 7851 7848 7852 7850
CONNECT 7849
CONNECT 7850 7849
CONNECT 7851 7849
CONNECT 7852 7849
CONNECT 7853 7855 7854 7844
CONNECT 7854 7853
CONNECT 7855 7857 7856 7853
CONNECT 7856 7855
CONNECT 7857 7865 7858 7855
CONNECT 7858 7857 7859
CONNECT 7859 7858 7860 7861
CONNECT 7860 7859 7862
CONNECT 7861 7859 7863
CONNECT 7862 7860 7864
CONNECT 7863 7861 7864
CONNECT 7864 7862 7863
CONNECT 7865 7867 7866 7857
CONNECT 7866 7865
CONNECT 7867 7869 7868 7865
CONNECT 7868 7867
CONNECT 7869 7870 7875 7867
CONNECT 7870 7871 7869
CONNECT 7871 7872 7870
CONNECT 7872 7871 7874 7873
CONNECT 7873 7872
CONNECT 7874 7872
CONNECT 7875 7876 7869 7877
CONNECT 7876 7875
CONNECT 7877 7875 7879 7878
CONNECT 7878 7877
CONNECT 7879 7877 7888 7883
CONNECT 7880 7881 7887 7882
CONNECT 7881 7880
CONNECT 7882 7880 7883 7886
CONNECT 7883 7879 7882
CONNECT 7884 7887 7886 7885
CONNECT 7885 7884
CONNECT 7886 7882 7884
CONNECT 7887 7880 7884
CONNECT 7888 7889 7879 7890
CONNECT 7889 7888
CONNECT 7890 7888 7892 7891
CONNECT 7891 7890
CONNECT 7892 7897 7890 7893
CONNECT 7893 7892 7894
CONNECT 7894 7893 7895
CONNECT 7895 7894 7896

CONNECT 7896 7895
CONNECT 7897 7899 7898 7892
CONNECT 7898 7897
CONNECT 7899 7901 7900 7897
CONNECT 7900 7899
CONNECT 7901 7911 7902 7899
CONNECT 7902 7901 7903
CONNECT 7903 7902 7905 7904
CONNECT 7904 7903 7906
CONNECT 7905 7903 7907
CONNECT 7906 7904 7908
CONNECT 7907 7905 7908
CONNECT 7908 7907 7906 7909
CONNECT 7909 7908 7910
CONNECT 7910 7909
CONNECT 7911 7912 7913 7901
CONNECT 7912 7911
CONNECT 7913 7915 7911 7914
CONNECT 7914 7913
CONNECT 7915 7916 7917 7913
CONNECT 7916 7915
CONNECT 7917 7918 7915 7919
CONNECT 7918 7917
CONNECT 7919 7917 7921 7920
CONNECT 7920 7919
CONNECT 7921 7929 7919 7922
CONNECT 7922 7921 7923
CONNECT 7923 7924 7922
CONNECT 7924 7925 7926 7923
CONNECT 7925 7924
CONNECT 7926 7928 7924 7927
CONNECT 7927 7926
CONNECT 7928 7926
CONNECT 7929 7930 7921 7931
CONNECT 7930 7929
CONNECT 7931 7929 7933 7932
CONNECT 7932 7931
CONNECT 7933 7937 7931 7934
CONNECT 7934 7933 7935
CONNECT 7935 7934 7936
CONNECT 7936 7935
CONNECT 7937 7939 7938 7933
CONNECT 7938 7937
CONNECT 7939 7941 7940 7937
CONNECT 7940 7939
CONNECT 7941 7942 7946 7939
CONNECT 7942 7943 7941
CONNECT 7943 7944 7942 7945
CONNECT 7944 7943
CONNECT 7945 7943
CONNECT 7946 7947 7941 7948
CONNECT 7947 7946
CONNECT 7948 7946 7950 7949
CONNECT 7949 7948
CONNECT 7950 7958 7948 7951
CONNECT 7951 7950 7952
CONNECT 7952 7951 7953
CONNECT 7953 7952 7954 7955
CONNECT 7954 7953
CONNECT 7955 7953 7956 7957
CONNECT 7956 7955
CONNECT 7957 7955
CONNECT 7958 7959 7950 7960
CONNECT 7959 7958
CONNECT 7960 7958 7962 7961
CONNECT 7961 7960
CONNECT 7962 7966 7960 7963
CONNECT 7963 7962 7965 7964
CONNECT 7964 7963
CONNECT 7965 7963
CONNECT 7966 7967 7968 7962
CONNECT 7967 7966
CONNECT 7968 7969 7966 7970
CONNECT 7969 7973 7971 7968

CONNECT 7970 7968 7972
CONNECT 7971 7969 7972
CONNECT 7972 7971 7970
CONNECT 7973 7974 7975 7969
CONNECT 7974 7973
CONNECT 7975 7977 7973 7976
CONNECT 7976 7975
CONNECT 7977 7987 7978 7975
CONNECT 7978 7979 7977
CONNECT 7979 7980 7981 7978
CONNECT 7980 7982 7979
CONNECT 7981 7983 7979
CONNECT 7982 7984 7980
CONNECT 7983 7984 7981
CONNECT 7984 7985 7982 7983
CONNECT 7985 7986 7984
CONNECT 7986 7985
CONNECT 7987 7988 7977 7989
CONNECT 7988 7987
CONNECT 7989 7987 7991 7990
CONNECT 7990 7989
CONNECT 7991 8004 7989 7992
CONNECT 7992 7991 7993
CONNECT 7993 7992 7994
CONNECT 7994 7993 7995
CONNECT 7995 7994 7996 7997
CONNECT 7996 7995
CONNECT 7997 7995 7998 8001
CONNECT 7998 8000 7997 7999
CONNECT 7999 7998
CONNECT 8000 7998
CONNECT 8001 7997 8003 8002
CONNECT 8002 8001
CONNECT 8003 8001
CONNECT 8004 8005 7991 8006
CONNECT 8005 8004
CONNECT 8006 8004 8008 8007
CONNECT 8007 8006
CONNECT 8008 8015 8006 8009
CONNECT 8009 8008 8010
CONNECT 8010 8011 8009 8012
CONNECT 8011 8010
CONNECT 8012 8010 8014 8013
CONNECT 8013 8012
CONNECT 8014 8012
CONNECT 8015 8016 8017 8008
CONNECT 8016 8015
CONNECT 8017 8019 8015 8018
CONNECT 8018 8017
CONNECT 8019 8023 8020 8017
CONNECT 8020 8021 8019
CONNECT 8021 8022 8020
CONNECT 8022 8021
CONNECT 8023 8024 8025 8019
CONNECT 8024 8023
CONNECT 8025 8027 8023 8026
CONNECT 8026 8025
CONNECT 8027 8032 8028 8025
CONNECT 8028 8029 8027
CONNECT 8029 8031 8030 8028
CONNECT 8030 8029
CONNECT 8031 8029
CONNECT 8032 8033 8027 8034
CONNECT 8033 8032
CONNECT 8034 8032 8036 8035
CONNECT 8035 8034
CONNECT 8036 8049 8034 8037
CONNECT 8037 8036 8038
CONNECT 8038 8037 8039
CONNECT 8039 8038 8040
CONNECT 8040 8041 8039 8042
CONNECT 8041 8040
CONNECT 8042 8040 8046 8043
CONNECT 8043 8042 8045 8044

CONNECT 8044 8043
CONNECT 8045 8043
CONNECT 8046 8048 8042 8047
CONNECT 8047 8046
CONNECT 8048 8046
CONNECT 8049 8050 8036 8051
CONNECT 8050 8049
CONNECT 8051 8049 8053 8052
CONNECT 8052 8051
CONNECT 8053 8062 8051 8054
CONNECT 8054 8053 8055
CONNECT 8055 8054 8056
CONNECT 8056 8055 8057
CONNECT 8057 8058 8056
CONNECT 8058 8061 8060 8059 8057
CONNECT 8058
CONNECT 8059 8058
CONNECT 8060 8058
CONNECT 8061 8058
CONNECT 8062 8063 8064 8053
CONNECT 8063 8062
CONNECT 8064 8066 8062 8065
CONNECT 8065 8064
CONNECT 8066 8068 8067 8064
CONNECT 8067 8066
CONNECT 8068 8069 8070 8066
CONNECT 8069 8068
CONNECT 8070 8072 8068 8071
CONNECT 8071 8070
CONNECT 8072 8081 8076 8070
CONNECT 8073 8080 8075 8074
CONNECT 8074 8073
CONNECT 8075 8079 8073 8076
CONNECT 8076 8072 8075
CONNECT 8077 8078 8079 8080
CONNECT 8078 8077
CONNECT 8079 8077 8075
CONNECT 8080 8077 8073
CONNECT 8081 8082 8072 8083
CONNECT 8082 8081
CONNECT 8083 8081 8085 8084
CONNECT 8084 8083
CONNECT 8085 8090 8083 8086
CONNECT 8086 8085 8087 8088
CONNECT 8087 8089 8086
CONNECT 8088 8086
CONNECT 8089 8087
CONNECT 8090 8091 8092 8085
CONNECT 8091 8090
CONNECT 8092 8094 8090 8093
CONNECT 8093 8092
CONNECT 8094 8102 8095 8092
CONNECT 8095 8094 8096
CONNECT 8096 8095 8098 8097
CONNECT 8097 8096 8099
CONNECT 8098 8096 8100
CONNECT 8099 8097 8101
CONNECT 8100 8098 8101
CONNECT 8101 8100 8099
CONNECT 8102 8103 8104 8094
CONNECT 8103 8102
CONNECT 8104 8106 8102 8105
CONNECT 8105 8104
CONNECT 8106 8107 8104
CONNECT 8107 8108 8106 8109
CONNECT 8108 8107
CONNECT 8109 8107 8111 8110
CONNECT 8110 8109
CONNECT 8111 8116 8109 8112
CONNECT 8112 8111 8113 8114
CONNECT 8113 8112 8115
CONNECT 8114 8112
CONNECT 8115 8113
CONNECT 8116 8117 8111 8118

CONNECT 8117 8116
CONNECT 8118 8116 8120 8119
CONNECT 8119 8118
CONNECT 8120 8125 8118 8121
CONNECT 8121 8120 8122 8124
CONNECT 8122 8121 8123
CONNECT 8123 8122
CONNECT 8124 8121
CONNECT 8125 8126 8127 8120
CONNECT 8126 8125
CONNECT 8127 8129 8125 8128
CONNECT 8128 8127
CONNECT 8129 8137 8130 8127
CONNECT 8130 8131 8129
CONNECT 8131 8133 8132 8130
CONNECT 8132 8134 8131
CONNECT 8133 8135 8131
CONNECT 8134 8136 8132
CONNECT 8135 8136 8133
CONNECT 8136 8135 8134
CONNECT 8137 8138 8139 8129
CONNECT 8138 8137
CONNECT 8139 8141 8137 8140
CONNECT 8140 8139
CONNECT 8141 8145 8142 8139
CONNECT 8142 8141 8143
CONNECT 8143 8142 8144
CONNECT 8144 8143
CONNECT 8145 8146 8141 8147
CONNECT 8146 8145
CONNECT 8147 8145 8149 8148
CONNECT 8148 8147
CONNECT 8149 8157 8147 8150
CONNECT 8150 8149 8151
CONNECT 8151 8152 8153 8150
CONNECT 8152 8154 8151
CONNECT 8153 8155 8151
CONNECT 8154 8156 8152
CONNECT 8155 8156 8153
CONNECT 8156 8154 8155
CONNECT 8157 8158 8159 8149
CONNECT 8158 8157
CONNECT 8159 8161 8157 8160
CONNECT 8160 8159
CONNECT 8161 8166 8162 8159
CONNECT 8162 8165 8161 8163
CONNECT 8163 8162 8164
CONNECT 8164 8163
CONNECT 8165 8162
CONNECT 8166 8168 8167 8161
CONNECT 8167 8166
CONNECT 8168 8170 8169 8166
CONNECT 8169 8168
CONNECT 8170 8178 8171 8168
CONNECT 8171 8170 8172
CONNECT 8172 8171 8173
CONNECT 8173 8175 8172 8174
CONNECT 8174 8173
CONNECT 8175 8176 8177 8173
CONNECT 8176 8175
CONNECT 8177 8175
CONNECT 8178 8179 8170 8180
CONNECT 8179 8178
CONNECT 8180 8178 8182 8181
CONNECT 8181 8180
CONNECT 8182 8184 8180 8183
CONNECT 8183 8182
CONNECT 8184 8185 8182 8186
CONNECT 8185 8184
CONNECT 8186 8184 8188 8187
CONNECT 8187 8186
CONNECT 8188 8193 8186 8189
CONNECT 8189 8188 8190
CONNECT 8190 8189 8191

CONNECT 8191 8190 8192
CONNECT 8192 8191
CONNECT 8193 8194 8195 8188
CONNECT 8194 8193
CONNECT 8195 8197 8196 8193
CONNECT 8196 8195
CONNECT 8197 8202 8198 8195
CONNECT 8198 8197 8199
CONNECT 8199 8200 8198
CONNECT 8200 8201 8199
CONNECT 8201 8200
CONNECT 8202 8203 8204 8197
CONNECT 8203 8202
CONNECT 8204 8206 8202 8205
CONNECT 8205 8204
CONNECT 8206 8207 8216 8204
CONNECT 8207 8206 8208
CONNECT 8208 8207 8210 8209
CONNECT 8209 8208 8211
CONNECT 8210 8208 8212
CONNECT 8211 8209 8213
CONNECT 8212 8210 8213
CONNECT 8213 8212 8211 8214
CONNECT 8214 8213 8215
CONNECT 8215 8214
CONNECT 8216 8217 8206 8218
CONNECT 8217 8216
CONNECT 8218 8216 8220 8219
CONNECT 8219 8218
CONNECT 8220 8218 8228 8221
CONNECT 8221 8220 8222
CONNECT 8222 8221 8224 8223
CONNECT 8223 8222 8225
CONNECT 8224 8222 8226
CONNECT 8225 8223 8227
CONNECT 8226 8224 8227
CONNECT 8227 8226 8225
CONNECT 8228 8229 8220 8230
CONNECT 8229 8228
CONNECT 8230 8228 8232 8231
CONNECT 8231 8230
CONNECT 8232 8236 8230 8233
CONNECT 8233 8232 8234
CONNECT 8234 8233 8235
CONNECT 8235 8234
CONNECT 8236 8238 8237 8232
CONNECT 8237 8236
CONNECT 8238 8240 8239 8236
CONNECT 8239 8238
CONNECT 8240 8241 8250 8238
CONNECT 8241 8242 8240
CONNECT 8242 8244 8241 8243
CONNECT 8243 8242 8245
CONNECT 8244 8246 8242
CONNECT 8245 8247 8243
CONNECT 8246 8244 8247
CONNECT 8247 8246 8248 8245
CONNECT 8248 8247 8249
CONNECT 8249 8248
CONNECT 8250 8251 8252 8240
CONNECT 8251 8250
CONNECT 8252 8254 8250 8253
CONNECT 8253 8252
CONNECT 8254 8255 8256 8252
CONNECT 8255 8254
CONNECT 8256 8257 8254 8258
CONNECT 8257 8256
CONNECT 8258 8256 8260 8259
CONNECT 8259 8258
CONNECT 8260 8261 8258
CONNECT 8261 8262 8263 8260
CONNECT 8262 8261
CONNECT 8263 8265 8261 8264
CONNECT 8264 8263

CONECT 8265 8268 8266 8263
CONECT 8266 8265 8267
CONECT 8267 8266
CONECT 8268 8270 8269 8265
CONECT 8269 8268
CONECT 8270 8272 8271 8268
CONECT 8271 8270
CONECT 8272 8273 8280 8270
CONECT 8273 8274 8272
CONECT 8274 8275 8273 8276
CONECT 8275 8277 8274
CONECT 8276 8274 8278
CONECT 8277 8275 8279
CONECT 8278 8279 8276
CONECT 8279 8277 8278
CONECT 8280 8281 8272 8282
CONECT 8281 8280
CONECT 8282 8280 8284 8283
CONECT 8283 8282
CONECT 8284 8285 8297 8282
CONECT 8285 8284 8286
CONECT 8286 8285 8287
CONECT 8287 8288 8286
CONECT 8288 8289 8287 8290
CONECT 8289 8288
CONECT 8290 8288 8294 8291
CONECT 8291 8290 8292 8293
CONECT 8292 8291
CONECT 8293 8291
CONECT 8294 8295 8296 8290
CONECT 8295 8294
CONECT 8296 8294
CONECT 8297 8298 8284 8299
CONECT 8298 8297
CONECT 8299 8297 8301 8300
CONECT 8300 8299
CONECT 8301 8309 8299 8302
CONECT 8302 8301 8303
CONECT 8303 8302 8304 8305
CONECT 8304 8303 8306
CONECT 8305 8303 8307
CONECT 8306 8304 8308
CONECT 8307 8305 8308
CONECT 8308 8306 8307
CONECT 8309 8310 8311 8301
CONECT 8310 8309
CONECT 8311 8313 8309 8312
CONECT 8312 8311
CONECT 8313 8314 8311
CONECT 8314 8316 8315 8313
CONECT 8315 8314
CONECT 8316 8318 8317 8314
CONECT 8317 8316
CONECT 8318 8319 8320 8316
CONECT 8319 8318
CONECT 8320 8321 8318 8322
CONECT 8321 8320
CONECT 8322 8320 8324 8323
CONECT 8323 8322
CONECT 8324 8334 8322 8325
CONECT 8325 8324 8326
CONECT 8326 8327 8325 8328
CONECT 8327 8329 8326
CONECT 8328 8326 8330
CONECT 8329 8327 8331
CONECT 8330 8331 8328
CONECT 8331 8329 8332 8330
CONECT 8332 8333 8331
CONECT 8333 8332
CONECT 8334 8336 8335 8324
CONECT 8335 8334
CONECT 8336 8338 8337 8334
CONECT 8337 8336
CONECT 8338 8343 8339 8336

CONNECT 8339 8338 8340
CONNECT 8340 8342 8339 8341
CONNECT 8341 8340
CONNECT 8342 8340
CONNECT 8343 8345 8344 8338
CONNECT 8344 8343
CONNECT 8345 8347 8346 8343
CONNECT 8346 8345
CONNECT 8347 8351 8348 8345
CONNECT 8348 8350 8347 8349
CONNECT 8349 8348
CONNECT 8350 8348
CONNECT 8351 8352 8353 8347
CONNECT 8352 8351
CONNECT 8353 8355 8351 8354
CONNECT 8354 8353
CONNECT 8355 8357 8356 8353
CONNECT 8356 8355
CONNECT 8357 8359 8358 8355
CONNECT 8358 8357
CONNECT 8359 8361 8360 8357
CONNECT 8360 8359
CONNECT 8361 8365 8370 8359
CONNECT 8362 8363 8364 8369
CONNECT 8363 8362
CONNECT 8364 8365 8362 8368
CONNECT 8365 8361 8364
CONNECT 8366 8369 8368 8367
CONNECT 8367 8366
CONNECT 8368 8364 8366
CONNECT 8369 8362 8366
CONNECT 8370 8371 8361 8372
CONNECT 8371 8370
CONNECT 8372 8370 8373 8374
CONNECT 8373 8372
CONNECT 8374 8375 8372 8383
CONNECT 8375 8376 8374
CONNECT 8376 8377 8375
CONNECT 8377 8378 8376
CONNECT 8378 8379 8377
CONNECT 8379 8382 8381 8380 8378
CONNECT 8379
CONNECT 8380 8379
CONNECT 8381 8379
CONNECT 8382 8379
CONNECT 8383 8374 8384 8385
CONNECT 8384 8383
CONNECT 8385 8383 8386 8387
CONNECT 8386 8385
CONNECT 8387 8385 8392 8388
CONNECT 8388 8387 8389
CONNECT 8389 8388 8391 8390
CONNECT 8390 8389
CONNECT 8391 8389
CONNECT 8392 8387 8393 8394
CONNECT 8393 8392
CONNECT 8394 8392 8395 8396
CONNECT 8395 8394
CONNECT 8396 8394 8401 8397
CONNECT 8397 8396 8398
CONNECT 8398 8397 8399
CONNECT 8399 8398 8400
CONNECT 8400 8399
CONNECT 8401 8403 8396 8402
CONNECT 8402 8401
CONNECT 8403 8404 8405 8401
CONNECT 8404 8403
CONNECT 8405 8409 8403 8406
CONNECT 8406 8407 8405
CONNECT 8407 8408 8406
CONNECT 8408 8407
CONNECT 8409 8410 8411 8405
CONNECT 8410 8409
CONNECT 8411 8413 8409 8412

CONNECT 8412 8411
CONNECT 8413 8414 8421 8411
CONNECT 8414 8415 8413
CONNECT 8415 8414 8417 8416
CONNECT 8416 8415 8418
CONNECT 8417 8415 8419
CONNECT 8418 8416 8420
CONNECT 8419 8417 8420
CONNECT 8420 8419 8418
CONNECT 8421 8423 8413 8422
CONNECT 8422 8421
CONNECT 8423 8424 8425 8421
CONNECT 8424 8423
CONNECT 8425 8426 8423 8431
CONNECT 8426 8427 8425
CONNECT 8427 8426 8428
CONNECT 8428 8427 8430 8429
CONNECT 8429 8428
CONNECT 8430 8428
CONNECT 8431 8425 8432 8433
CONNECT 8432 8431
CONNECT 8433 8431 8434 8435
CONNECT 8434 8433
CONNECT 8435 8433 8436 8440
CONNECT 8436 8435 8437
CONNECT 8437 8438 8436 8439
CONNECT 8438 8437
CONNECT 8439 8437
CONNECT 8440 8435 8442 8441
CONNECT 8441 8440
CONNECT 8442 8443 8440 8444
CONNECT 8443 8442
CONNECT 8444 8442 8445 8448
CONNECT 8445 8447 8446 8444
CONNECT 8446 8445
CONNECT 8447 8445
CONNECT 8448 8450 8444 8449
CONNECT 8449 8448
CONNECT 8450 8451 8452 8448
CONNECT 8451 8450
CONNECT 8452 8453 8450 8457
CONNECT 8453 8454 8452
CONNECT 8454 8456 8455 8453
CONNECT 8455 8454
CONNECT 8456 8454
CONNECT 8457 8452 8459 8458
CONNECT 8458 8457
CONNECT 8459 8460 8457 8461
CONNECT 8460 8459
CONNECT 8461 8459 8462 8466
CONNECT 8462 8463 8461
CONNECT 8463 8464 8465 8462
CONNECT 8464 8463
CONNECT 8465 8463
CONNECT 8466 8461 8468 8467
CONNECT 8467 8466
CONNECT 8468 8469 8466 8470
CONNECT 8469 8468
CONNECT 8470 8468 8471 8474
CONNECT 8471 8473 8470 8472
CONNECT 8472 8471
CONNECT 8473 8471
CONNECT 8474 8476 8470 8475
CONNECT 8475 8474
CONNECT 8476 8477 8478 8474
CONNECT 8477 8476
CONNECT 8478 8479 8476 8486
CONNECT 8479 8480 8478
CONNECT 8480 8479 8482 8481
CONNECT 8481 8480 8483
CONNECT 8482 8480 8484
CONNECT 8483 8481 8485
CONNECT 8484 8482 8485
CONNECT 8485 8484 8483

CONNECT 8486 8478 8488 8487
CONNECT 8487 8486
CONNECT 8488 8489 8486 8490
CONNECT 8489 8488
CONNECT 8490 8488 8491 8494
CONNECT 8491 8490 8492
CONNECT 8492 8491 8493
CONNECT 8493 8492
CONNECT 8494 8490 8496 8495
CONNECT 8495 8494
CONNECT 8496 8497 8494 8498
CONNECT 8497 8496
CONNECT 8498 8496 8499 8500
CONNECT 8499 8498
CONNECT 8500 8502 8498 8501
CONNECT 8501 8500
CONNECT 8502 8503 8504 8500
CONNECT 8503 8502
CONNECT 8504 8505 8502 8508
CONNECT 8505 8507 8506 8504
CONNECT 8506 8505
CONNECT 8507 8505
CONNECT 8508 8510 8504 8509
CONNECT 8509 8508
CONNECT 8510 8511 8512 8508
CONNECT 8511 8510
CONNECT 8512 8513 8510 8516
CONNECT 8513 8514 8515 8512
CONNECT 8514 8513
CONNECT 8515 8513
CONNECT 8516 8512 8518 8517
CONNECT 8517 8516
CONNECT 8518 8519 8516 8520
CONNECT 8519 8518
CONNECT 8520 8518 8521 8528
CONNECT 8521 8522 8520
CONNECT 8522 8523 8524 8521
CONNECT 8523 8525 8522
CONNECT 8524 8526 8522
CONNECT 8525 8527 8523
CONNECT 8526 8527 8524
CONNECT 8527 8525 8526
CONNECT 8528 8520 8530 8529
CONNECT 8529 8528
CONNECT 8530 8531 8528 8532
CONNECT 8531 8530
CONNECT 8532 8530 8533
CONNECT 8533 8535 8532 8534
CONNECT 8534 8533
CONNECT 8535 8536 8537 8533
CONNECT 8536 8535
CONNECT 8537 8538 8535 8539
CONNECT 8538 8537
CONNECT 8539 8541 8537 8540
CONNECT 8540 8539
CONNECT 8541 8542 8543 8539
CONNECT 8542 8541
CONNECT 8543 8544 8541 8548
CONNECT 8544 8543 8545
CONNECT 8545 8544 8546
CONNECT 8546 8547 8545
CONNECT 8547 8546
CONNECT 8548 8543 8549 8550
CONNECT 8549 8548
CONNECT 8550 8548 8551 8552
CONNECT 8551 8550
CONNECT 8552 8550 8554 8553
CONNECT 8553 8552
CONNECT 8554 8552 8556 8555
CONNECT 8555 8554
CONNECT 8556 8557 8554 8558
CONNECT 8557 8556
CONNECT 8558 8559 8556 8562
CONNECT 8559 8561 8560 8558

CONNECT 8560 8559
CONNECT 8561 8559
CONNECT 8562 8564 8558 8563
CONNECT 8563 8562
CONNECT 8564 8565 8566 8562
CONNECT 8565 8564
CONNECT 8566 8564 8567
CONNECT 8567 8566 8568 8569
CONNECT 8568 8567
CONNECT 8569 8567 8570 8571
CONNECT 8570 8569
CONNECT 8571 8569 8572 8579
CONNECT 8572 8573 8571
CONNECT 8573 8574 8572
CONNECT 8574 8575 8573 8576
CONNECT 8575 8574
CONNECT 8576 8574 8577 8578
CONNECT 8577 8576
CONNECT 8578 8576
CONNECT 8579 8571 8580 8581
CONNECT 8580 8579
CONNECT 8581 8579 8582 8583
CONNECT 8582 8581
CONNECT 8583 8581 8587 8584
CONNECT 8584 8583 8586 8585
CONNECT 8585 8584
CONNECT 8586 8584
CONNECT 8587 8589 8583 8588
CONNECT 8588 8587
CONNECT 8589 8590 8591 8587
CONNECT 8590 8589
CONNECT 8591 8592 8595 8589
CONNECT 8592 8593 8591
CONNECT 8593 8594 8592
CONNECT 8594 8593
CONNECT 8595 8596 8597 8591
CONNECT 8596 8595
CONNECT 8597 8599 8595 8598
CONNECT 8598 8597
CONNECT 8599 8600 8597 8603
CONNECT 8600 8601 8599
CONNECT 8601 8602 8600
CONNECT 8602 8601
CONNECT 8603 8599 8605 8604
CONNECT 8604 8603
CONNECT 8605 8606 8603 8607
CONNECT 8606 8605
CONNECT 8607 8605 8608 8615
CONNECT 8608 8609 8607
CONNECT 8609 8611 8610 8608
CONNECT 8610 8612 8609
CONNECT 8611 8613 8609
CONNECT 8612 8614 8610
CONNECT 8613 8614 8611
CONNECT 8614 8613 8612
CONNECT 8615 8607 8616 8617
CONNECT 8616 8615
CONNECT 8617 8615 8618 8619
CONNECT 8618 8617
CONNECT 8619 8617 8620 8621
CONNECT 8620 8619
CONNECT 8621 8619 8622 8623
CONNECT 8622 8621
CONNECT 8623 8621 8625 8624
CONNECT 8624 8623 8628 8626
CONNECT 8625 8623 8627
CONNECT 8626 8624 8627
CONNECT 8627 8625 8626
CONNECT 8628 8624 8629 8630
CONNECT 8629 8628
CONNECT 8630 8628 8631 8632
CONNECT 8631 8630
CONNECT 8632 8630 8633 8637
CONNECT 8633 8632 8634

CONNECT 8634 8635 8633 8636
CONNECT 8635 8634
CONNECT 8636 8634
CONNECT 8637 8632 8639 8638
CONNECT 8638 8637
CONNECT 8639 8640 8637 8641
CONNECT 8640 8639
CONNECT 8641 8639 8651 8642
CONNECT 8642 8641 8643
CONNECT 8643 8645 8644 8642
CONNECT 8644 8646 8643
CONNECT 8645 8647 8643
CONNECT 8646 8648 8644
CONNECT 8647 8648 8645
CONNECT 8648 8649 8647 8646
CONNECT 8649 8650 8648
CONNECT 8650 8649
CONNECT 8651 8641 8652 8653
CONNECT 8652 8651
CONNECT 8653 8651 8654 8655
CONNECT 8654 8653
CONNECT 8655 8656 8653 8657
CONNECT 8656 8655
CONNECT 8657 8659 8655 8658
CONNECT 8658 8657
CONNECT 8659 8660 8661 8657
CONNECT 8660 8659
CONNECT 8661 8662 8659 8670
CONNECT 8662 8663 8661
CONNECT 8663 8664 8662
CONNECT 8664 8665 8663
CONNECT 8665 8666 8664
CONNECT 8666 8667 8665 8669 8668
CONNECT 8666
CONNECT 8667 8666
CONNECT 8668 8666
CONNECT 8669 8666
CONNECT 8670 8672 8661 8671
CONNECT 8671 8670
CONNECT 8672 8673 8674 8670
CONNECT 8673 8672
CONNECT 8674 8675 8672 8676
CONNECT 8675 8674
CONNECT 8676 8674 8678 8677
CONNECT 8677 8676
CONNECT 8678 8679 8676 8680
CONNECT 8679 8678
CONNECT 8680 8678 8681 8689
CONNECT 8681 8680 8682
CONNECT 8682 8681 8683
CONNECT 8683 8682 8684
CONNECT 8684 8683 8685
CONNECT 8685 8687 8684 8688 8686
CONNECT 8685
CONNECT 8686 8685
CONNECT 8687 8685
CONNECT 8688 8685
CONNECT 8689 8680 8691 8690
CONNECT 8690 8689
CONNECT 8691 8692 8689 8693
CONNECT 8692 8691
CONNECT 8693 8691 8698 8694
CONNECT 8694 8695 8693 8696
CONNECT 8695 8697 8694
CONNECT 8696 8694
CONNECT 8697 8695
CONNECT 8698 8700 8693 8699
CONNECT 8699 8698
CONNECT 8700 8701 8702 8698
CONNECT 8701 8700
CONNECT 8702 8703 8700 8706
CONNECT 8703 8704 8702
CONNECT 8704 8705 8703
CONNECT 8705 8704

CONECT 8706 8708 8702 8707
CONECT 8707 8706
CONECT 8708 8709 8710 8706
CONECT 8709 8708
CONECT 8710 8711 8708 8712
CONECT 8711 8710
CONECT 8712 8710 8713 8714
CONECT 8713 8712
CONECT 8714 8712 8715 8716
CONECT 8715 8714
CONECT 8716 8714 8718 8717
CONECT 8717 8716
CONECT 8718 8716 8720 8719
CONECT 8719 8718
CONECT 8720 8721 8718 8722
CONECT 8721 8720
CONECT 8722 8720 8726 8731
CONECT 8723 8724 8725 8730
CONECT 8724 8723
CONECT 8725 8726 8723 8729
CONECT 8726 8722 8725
CONECT 8727 8730 8729 8728
CONECT 8728 8727
CONECT 8729 8725 8727
CONECT 8730 8723 8727
CONECT 8731 8733 8722 8732
CONECT 8732 8731
CONECT 8733 8734 8735 8731
CONECT 8734 8733
CONECT 8735 8736 8733 8740
CONECT 8736 8738 8737 8735
CONECT 8737 8736 8739
CONECT 8738 8736
CONECT 8739 8737
CONECT 8740 8735 8742 8741
CONECT 8741 8740
CONECT 8742 8743 8740 8744
CONECT 8743 8742
CONECT 8744 8742 8745 8749
CONECT 8745 8746 8744 8747
CONECT 8746 8748 8745
CONECT 8747 8745
CONECT 8748 8746
CONECT 8749 8744 8750 8751
CONECT 8750 8749
CONECT 8751 8749 8752 8753
CONECT 8752 8751
CONECT 8753 8751 8758 8754
CONECT 8754 8753 8755
CONECT 8755 8754 8756
CONECT 8756 8755 8757
CONECT 8757 8756
CONECT 8758 8760 8753 8759
CONECT 8759 8758
CONECT 8760 8761 8762 8758
CONECT 8761 8760
CONECT 8762 8763 8767 8760
CONECT 8763 8765 8764 8762
CONECT 8764 8763 8766
CONECT 8765 8763
CONECT 8766 8764
CONECT 8767 8769 8762 8768
CONECT 8768 8767
CONECT 8769 8771 8770 8767
CONECT 8770 8769
CONECT 8771 8772 8769 8776
CONECT 8772 8773 8774 8771
CONECT 8773 8775 8772
CONECT 8774 8772
CONECT 8775 8773
CONECT 8776 8771 8777 8778
CONECT 8777 8776
CONECT 8778 8776 8779 8780
CONECT 8779 8778

CONNECT 8780 8778 8781 8786
CONNECT 8781 8782 8780
CONNECT 8782 8783 8781
CONNECT 8783 8784 8785 8782
CONNECT 8784 8783
CONNECT 8785 8783
CONNECT 8786 8780 8787 8788
CONNECT 8787 8786
CONNECT 8788 8786 8789 8790
CONNECT 8789 8788
CONNECT 8790 8788 8791 8799
CONNECT 8791 8792 8790
CONNECT 8792 8793 8791
CONNECT 8793 8794 8792
CONNECT 8794 8795 8793
CONNECT 8795 8796 8798 8797 8794
CONNECT 8795
CONNECT 8796 8795
CONNECT 8797 8795
CONNECT 8798 8795
CONNECT 8799 8790 8800 8801
CONNECT 8800 8799
CONNECT 8801 8799 8802 8803
CONNECT 8802 8801
CONNECT 8803 8801 8808 8804
CONNECT 8804 8803 8805 8807
CONNECT 8805 8804 8806
CONNECT 8806 8805
CONNECT 8807 8804
CONNECT 8808 8810 8803 8809
CONNECT 8809 8808
CONNECT 8810 8812 8811 8808
CONNECT 8811 8813 8810 8815
CONNECT 8812 8814 8810
CONNECT 8813 8814 8811
CONNECT 8814 8813 8812
CONNECT 8815 8811 8816 8817
CONNECT 8816 8815
CONNECT 8817 8815 8818 8819
CONNECT 8818 8817
CONNECT 8819 8817 8824 8820
CONNECT 8820 8819 8821
CONNECT 8821 8820 8823 8822
CONNECT 8822 8821
CONNECT 8823 8821
CONNECT 8824 8826 8819 8825
CONNECT 8825 8824
CONNECT 8826 8827 8828 8824
CONNECT 8827 8826
CONNECT 8828 8833 8826 8829
CONNECT 8829 8828 8830 8831
CONNECT 8830 8829 8832
CONNECT 8831 8829
CONNECT 8832 8830
CONNECT 8833 8835 8834 8828
CONNECT 8834 8833
CONNECT 8835 8837 8836 8833
CONNECT 8836 8835
CONNECT 8837 8838 8842 8835
CONNECT 8838 8839 8837
CONNECT 8839 8840 8841 8838
CONNECT 8840 8839
CONNECT 8841 8839
CONNECT 8842 8843 8837 8844
CONNECT 8843 8842
CONNECT 8844 8842 8846 8845
CONNECT 8845 8844
CONNECT 8846 8847 8844 8850
CONNECT 8847 8848 8846
CONNECT 8848 8849 8847
CONNECT 8849 8848
CONNECT 8850 8846 8851 8852
CONNECT 8851 8850
CONNECT 8852 8850 8853 8854

CONECT 8853 8852
CONECT 8854 8852 8864 8855
CONECT 8855 8854 8856
CONECT 8856 8855 8857 8858
CONECT 8857 8856 8859
CONECT 8858 8856 8860
CONECT 8859 8857 8861
CONECT 8860 8858 8861
CONECT 8861 8859 8860 8862
CONECT 8862 8861 8863
CONECT 8863 8862
CONECT 8864 8865 8854 8866
CONECT 8865 8864
CONECT 8866 8864 8868 8867
CONECT 8867 8866
CONECT 8868 8866 8869 8872
CONECT 8869 8868 8870
CONECT 8870 8869 8871
CONECT 8871 8870
CONECT 8872 8868 8873 8874
CONECT 8873 8872
CONECT 8874 8872 8875 8876
CONECT 8875 8874
CONECT 8876 8874 8881 8877
CONECT 8877 8878 8876 8880
CONECT 8878 8879 8877
CONECT 8879 8878
CONECT 8880 8877
CONECT 8881 8883 8876 8882
CONECT 8882 8881
CONECT 8883 8884 8885 8881
CONECT 8884 8883
CONECT 8885 8891 8883 8886
CONECT 8886 8887 8885
CONECT 8887 8888 8886
CONECT 8888 8890 8889 8887
CONECT 8889 8888
CONECT 8890 8888
CONECT 8891 8892 8893 8885
CONECT 8892 8891
CONECT 8893 8895 8894 8891
CONECT 8894 8893
CONECT 8895 8896 8893
CONECT 8896 8897 8895 8898
CONECT 8897 8896
CONECT 8898 8896 8900 8899
CONECT 8899 8898
CONECT 8900 8901 8898 8905
CONECT 8901 8902 8900
CONECT 8902 8903 8901 8904
CONECT 8903 8902
CONECT 8904 8902
CONECT 8905 8906 8900 8907
CONECT 8906 8905
CONECT 8907 8905 8909 8908
CONECT 8908 8907
CONECT 8909 8907 8914 8910
CONECT 8910 8909 8911
CONECT 8911 8912 8910
CONECT 8912 8911 8913
CONECT 8913 8912
CONECT 8914 8916 8909 8915
CONECT 8915 8914
CONECT 8916 8918 8917 8914
CONECT 8917 8919 8916 8921
CONECT 8918 8920 8916
CONECT 8919 8920 8917
CONECT 8920 8918 8919
CONECT 8921 8917 8922 8923
CONECT 8922 8921
CONECT 8923 8921 8924 8925
CONECT 8924 8923
CONECT 8925 8923 8926 8932
CONECT 8926 8925 8927

CONNECT 8927 8926 8928 8929
CONNECT 8928 8927
CONNECT 8929 8927 8930 8931
CONNECT 8930 8929
CONNECT 8931 8929
CONNECT 8932 8925 8934 8933
CONNECT 8933 8932
CONNECT 8934 8935 8936 8932
CONNECT 8935 8934
CONNECT 8936 8937 8934 8941
CONNECT 8937 8940 8938 8936
CONNECT 8938 8937 8939
CONNECT 8939 8938
CONNECT 8940 8937
CONNECT 8941 8943 8936 8942
CONNECT 8942 8941
CONNECT 8943 8944 8945 8941
CONNECT 8944 8943
CONNECT 8945 8946 8943 8950
CONNECT 8946 8947 8945
CONNECT 8947 8949 8948 8946
CONNECT 8948 8947
CONNECT 8949 8947
CONNECT 8950 8945 8951 8952
CONNECT 8951 8950
CONNECT 8952 8950 8953 8954
CONNECT 8953 8952
CONNECT 8954 8952 8960 8955
CONNECT 8955 8954 8956
CONNECT 8956 8955 8957
CONNECT 8957 8959 8956 8958
CONNECT 8958 8957
CONNECT 8959 8957
CONNECT 8960 8954 8961 8962
CONNECT 8961 8960
CONNECT 8962 8963 8960 8964
CONNECT 8963 8962
CONNECT 8964 8962 8965
CONNECT 8965 8964 8966 8967
CONNECT 8966 8965
CONNECT 8967 8965 8968 8969
CONNECT 8968 8967
CONNECT 8969 8967 8976 8970
CONNECT 8970 8969 8971
CONNECT 8971 8972 8970 8973
CONNECT 8972 8971
CONNECT 8973 8971 8974 8975
CONNECT 8974 8973
CONNECT 8975 8973
CONNECT 8976 8977 8969 8978
CONNECT 8977 8976
CONNECT 8978 8976 8980 8979
CONNECT 8979 8978
CONNECT 8980 8981 8978 8984
CONNECT 8981 8983 8982 8980
CONNECT 8982 8981
CONNECT 8983 8981
CONNECT 8984 8980 8986 8985
CONNECT 8985 8984
CONNECT 8986 8987 8984 8988
CONNECT 8987 8986
CONNECT 8988 8986 8993 8989
CONNECT 8989 8992 8988 8990
CONNECT 8990 8989 8991
CONNECT 8991 8990
CONNECT 8992 8989
CONNECT 8993 8994 8988 8995
CONNECT 8994 8993
CONNECT 8995 8993 8997 8996
CONNECT 8996 8995
CONNECT 8997 8995 8998 9005
CONNECT 8998 8999 8997
CONNECT 8999 9000 9001 8998
CONNECT 9000 9002 8999

CONNECT 9001 9003 8999
CONNECT 9002 9004 9000
CONNECT 9003 9004 9001
CONNECT 9004 9002 9003
CONNECT 9005 8997 9007 9006
CONNECT 9006 9005
CONNECT 9007 9008 9005 9009
CONNECT 9008 9007
CONNECT 9009 9007 9010
CONNECT 9010 9011 9009 9012
CONNECT 9011 9010
CONNECT 9012 9010 9014 9013
CONNECT 9013 9012
CONNECT 9014 9020 9012 9015
CONNECT 9015 9014 9016
CONNECT 9016 9015 9017
CONNECT 9017 9016 9018 9019
CONNECT 9018 9017
CONNECT 9019 9017
CONNECT 9020 9022 9021 9014
CONNECT 9021 9020
CONNECT 9022 9024 9023 9020
CONNECT 9023 9022
CONNECT 9024 9025 9028 9022
CONNECT 9025 9026 9027 9024
CONNECT 9026 9025
CONNECT 9027 9025
CONNECT 9028 9024 9030 9029
CONNECT 9029 9028
CONNECT 9030 9031 9028 9032
CONNECT 9031 9030
CONNECT 9032 9036 9030 9033
CONNECT 9033 9032 9034 9035
CONNECT 9034 9033
CONNECT 9035 9033
CONNECT 9036 9037 9038 9032
CONNECT 9037 9036
CONNECT 9038 9040 9036 9039
CONNECT 9039 9038
CONNECT 9040 9041 9048 9038
CONNECT 9041 9042 9040
CONNECT 9042 9043 9044 9041
CONNECT 9043 9045 9042
CONNECT 9044 9046 9042
CONNECT 9045 9047 9043
CONNECT 9046 9047 9044
CONNECT 9047 9045 9046
CONNECT 9048 9050 9040 9049
CONNECT 9049 9048
CONNECT 9050 9051 9052 9048
CONNECT 9051 9050
CONNECT 9052 9059 9050 9053
CONNECT 9053 9052 9054
CONNECT 9054 9055 9053 9056
CONNECT 9055 9054
CONNECT 9056 9054 9057 9058
CONNECT 9057 9056
CONNECT 9058 9056
CONNECT 9059 9061 9060 9052
CONNECT 9060 9059
CONNECT 9061 9063 9062 9059
CONNECT 9062 9061
CONNECT 9063 9064 9073 9061
CONNECT 9064 9065 9063
CONNECT 9065 9064 9067 9066
CONNECT 9066 9065 9068
CONNECT 9067 9065 9069
CONNECT 9068 9066 9070
CONNECT 9069 9067 9070
CONNECT 9070 9069 9068 9071
CONNECT 9071 9070 9072
CONNECT 9072 9071
CONNECT 9073 9075 9063 9074
CONNECT 9074 9073

CONECT 9075 9077 9076 9073
CONECT 9076 9078 9075 9080
CONECT 9077 9079 9075
CONECT 9078 9079 9076
CONECT 9079 9078 9077
CONECT 9080 9081 9076 9082
CONECT 9081 9080
CONECT 9082 9080 9084 9083
CONECT 9083 9082
CONECT 9084 9082 9085 9089
CONECT 9085 9084 9086 9088
CONECT 9086 9085 9087
CONECT 9087 9086
CONECT 9088 9085
CONECT 9089 9084 9091 9090
CONECT 9090 9089
CONECT 9091 9092 9089 9093
CONECT 9092 9091
CONECT 9093 9091 9094 9106
CONECT 9094 9093 9095
CONECT 9095 9094 9096
CONECT 9096 9097 9095
CONECT 9097 9099 9098 9096
CONECT 9098 9097
CONECT 9099 9103 9100 9097
CONECT 9100 9101 9099 9102
CONECT 9101 9100
CONECT 9102 9100
CONECT 9103 9104 9105 9099
CONECT 9104 9103
CONECT 9105 9103
CONECT 9106 9093 9108 9107
CONECT 9107 9106
CONECT 9108 9110 9106 9109
CONECT 9109 9108 9111 9113
CONECT 9110 9112 9108
CONECT 9111 9112 9109
CONECT 9112 9110 9111
CONECT 9113 9109 9115 9114
CONECT 9114 9113
CONECT 9115 9116 9117 9113
CONECT 9116 9115
CONECT 9117 9118 9115 9122
CONECT 9118 9119 9117
CONECT 9119 9118 9121 9120
CONECT 9120 9119
CONECT 9121 9119
CONECT 9122 9117 9124 9123
CONECT 9123 9122
CONECT 9124 9125 9122 9126
CONECT 9125 9124
CONECT 9126 9124 9131 9127
CONECT 9127 9126 9129 9128
CONECT 9128 9127 9130
CONECT 9129 9127
CONECT 9130 9128
CONECT 9131 9132 9133 9126
CONECT 9132 9131
CONECT 9133 9134 9131 9135
CONECT 9134 9136 9138 9133
CONECT 9135 9137 9133
CONECT 9136 9134 9137
CONECT 9137 9136 9135
CONECT 9138 9140 9134 9139
CONECT 9139 9138
CONECT 9140 9141 9142 9138
CONECT 9141 9140
CONECT 9142 9143 9140 9146
CONECT 9143 9144 9145 9142
CONECT 9144 9143
CONECT 9145 9143
CONECT 9146 9142 9148 9147
CONECT 9147 9146
CONECT 9148 9149 9146 9150

CONNECT 9149 9148
CONNECT 9150 9151 9148 9155
CONNECT 9151 9152 9150
CONNECT 9152 9154 9153 9151
CONNECT 9153 9152
CONNECT 9154 9152
CONNECT 9155 9150 9156 9157
CONNECT 9156 9155
CONNECT 9157 9155 9158 9159
CONNECT 9158 9157
CONNECT 9159 9157 9167 9160
CONNECT 9160 9159 9161
CONNECT 9161 9160 9162
CONNECT 9162 9161 9163 9164
CONNECT 9163 9162
CONNECT 9164 9162 9165 9166
CONNECT 9165 9164
CONNECT 9166 9164
CONNECT 9167 9159 9169 9168
CONNECT 9168 9167
CONNECT 9169 9170 9167 9171
CONNECT 9170 9169
CONNECT 9171 9169 9172
CONNECT 9172 9174 9171 9173
CONNECT 9173 9172
CONNECT 9174 9175 9176 9172
CONNECT 9175 9174
CONNECT 9176 9177 9181 9174
CONNECT 9177 9178 9176
CONNECT 9178 9180 9177 9179
CONNECT 9179 9178
CONNECT 9180 9178
CONNECT 9181 9182 9176 9183
CONNECT 9182 9181
CONNECT 9183 9181 9185 9184
CONNECT 9184 9183
CONNECT 9185 9189 9183 9186
CONNECT 9186 9185 9187
CONNECT 9187 9186 9188
CONNECT 9188 9187
CONNECT 9189 9191 9185 9190
CONNECT 9190 9189
CONNECT 9191 9192 9193 9189
CONNECT 9192 9191
CONNECT 9193 9198 9194 9191
CONNECT 9194 9195 9193
CONNECT 9195 9194 9197 9196
CONNECT 9196 9195
CONNECT 9197 9195
CONNECT 9198 9200 9199 9193
CONNECT 9199 9198
CONNECT 9200 9202 9201 9198
CONNECT 9201 9200
CONNECT 9202 9208 9203 9200
CONNECT 9203 9202 9204
CONNECT 9204 9203 9205
CONNECT 9205 9206 9204 9207
CONNECT 9206 9205
CONNECT 9207 9205
CONNECT 9208 9210 9209 9202
CONNECT 9209 9208
CONNECT 9210 9212 9211 9208
CONNECT 9211 9210
CONNECT 9212 9213 9216 9210
CONNECT 9213 9214 9215 9212
CONNECT 9214 9213
CONNECT 9215 9213
CONNECT 9216 9217 9212 9218
CONNECT 9217 9216
CONNECT 9218 9216 9220 9219
CONNECT 9219 9218
CONNECT 9220 9229 9218 9221
CONNECT 9221 9220 9222
CONNECT 9222 9221 9223

CONNECT 9223 9222 9224
CONNECT 9224 9223 9225
CONNECT 9225 9224 9228 9227 9226
CONNECT 9225
CONNECT 9226 9225
CONNECT 9227 9225
CONNECT 9228 9225
CONNECT 9229 9230 9231 9220
CONNECT 9230 9229
CONNECT 9231 9233 9229 9232
CONNECT 9232 9231
CONNECT 9233 9234 9242 9231
CONNECT 9234 9235 9233
CONNECT 9235 9234 9236
CONNECT 9236 9235 9237
CONNECT 9237 9238 9236
CONNECT 9238 9241 9239 9240 9237
CONNECT 9238
CONNECT 9239 9238
CONNECT 9240 9238
CONNECT 9241 9238
CONNECT 9242 9244 9233 9243
CONNECT 9243 9242
CONNECT 9244 9245 9246 9242
CONNECT 9245 9244
CONNECT 9246 9244 9247
CONNECT 9247 9246 9248 9249
CONNECT 9248 9247
CONNECT 9249 9247 9250 9251
CONNECT 9250 9249
CONNECT 9251 9249 9259 9252
CONNECT 9252 9251 9253
CONNECT 9253 9252 9254
CONNECT 9254 9255 9253 9256
CONNECT 9255 9254
CONNECT 9256 9254 9257 9258
CONNECT 9257 9256
CONNECT 9258 9256
CONNECT 9259 9260 9251 9261
CONNECT 9260 9259
CONNECT 9261 9259 9263 9262
CONNECT 9262 9261
CONNECT 9263 9264 9261 9268
CONNECT 9264 9267 9263 9265
CONNECT 9265 9264 9266
CONNECT 9266 9265
CONNECT 9267 9264
CONNECT 9268 9263 9270 9269
CONNECT 9269 9268
CONNECT 9270 9271 9268 9272
CONNECT 9271 9270
CONNECT 9272 9270 9273 9277
CONNECT 9273 9272 9274
CONNECT 9274 9273 9276 9275
CONNECT 9275 9274
CONNECT 9276 9274
CONNECT 9277 9278 9272 9279
CONNECT 9278 9277
CONNECT 9279 9277 9281 9280
CONNECT 9280 9279
CONNECT 9281 9279 9283 9282
CONNECT 9282 9281
CONNECT 9283 9285 9281 9284
CONNECT 9284 9283
CONNECT 9285 9286 9287 9283
CONNECT 9286 9285
CONNECT 9287 9288 9285 9292
CONNECT 9288 9289 9287
CONNECT 9289 9288 9290 9291
CONNECT 9290 9289
CONNECT 9291 9289
CONNECT 9292 9293 9287 9294
CONNECT 9293 9292
CONNECT 9294 9292 9296 9295

CONNECT 9295 9294
CONNECT 9296 9294 9300 9297
CONNECT 9297 9296 9299 9298
CONNECT 9298 9297
CONNECT 9299 9297
CONNECT 9300 9302 9296 9301
CONNECT 9301 9300
CONNECT 9302 9303 9304 9300
CONNECT 9303 9302
CONNECT 9304 9302 9305
CONNECT 9305 9304 9306 9307
CONNECT 9306 9305
CONNECT 9307 9305 9308 9309
CONNECT 9308 9307
CONNECT 9309 9313 9307 9310
CONNECT 9310 9309 9311
CONNECT 9311 9310 9312
CONNECT 9312 9311
CONNECT 9313 9315 9314 9309
CONNECT 9314 9313
CONNECT 9315 9317 9316 9313
CONNECT 9316 9315
CONNECT 9317 9321 9318 9315
CONNECT 9318 9317 9319
CONNECT 9319 9318 9320
CONNECT 9320 9319
CONNECT 9321 9323 9322 9317
CONNECT 9322 9321
CONNECT 9323 9325 9324 9321
CONNECT 9324 9323
CONNECT 9325 9326 9323
CONNECT 9326 9327 9325 9328
CONNECT 9327 9326
CONNECT 9328 9326 9330 9329
CONNECT 9329 9328
CONNECT 9330 9328 9331 9333
CONNECT 9331 9330 9332
CONNECT 9332 9331
CONNECT 9333 9330 9335 9334
CONNECT 9334 9333
CONNECT 9335 9336 9333 9337
CONNECT 9336 9335
CONNECT 9337 9335 9338
CONNECT 9338 9340 9339 9337
CONNECT 9339 9338
CONNECT 9340 9342 9341 9338
CONNECT 9341 9340
CONNECT 9342 9351 9343 9340
CONNECT 9343 9342 9344
CONNECT 9344 9343 9345
CONNECT 9345 9344 9346
CONNECT 9346 9345 9347
CONNECT 9347 9349 9346 9350 9348
CONNECT 9347
CONNECT 9348 9347
CONNECT 9349 9347
CONNECT 9350 9347
CONNECT 9351 9353 9352 9342
CONNECT 9352 9351
CONNECT 9353 9355 9354 9351
CONNECT 9354 9353
CONNECT 9355 9356 9359 9353
CONNECT 9356 9357 9355
CONNECT 9357 9358 9356
CONNECT 9358 9357
CONNECT 9359 9360 9355 9361
CONNECT 9360 9359
CONNECT 9361 9359 9363 9362
CONNECT 9362 9361
CONNECT 9363 9361 9368 9364
CONNECT 9364 9363 9367 9365
CONNECT 9365 9364 9366
CONNECT 9366 9365
CONNECT 9367 9364

CONNECT 9368 9369 9363 9370
CONNECT 9369 9368
CONNECT 9370 9368 9372 9371
CONNECT 9371 9370
CONNECT 9372 9376 9370 9373
CONNECT 9373 9372 9374 9375
CONNECT 9374 9373
CONNECT 9375 9373
CONNECT 9376 9378 9377 9372
CONNECT 9377 9376
CONNECT 9378 9380 9379 9376
CONNECT 9379 9378
CONNECT 9380 9384 9381 9378
CONNECT 9381 9383 9380 9382
CONNECT 9382 9381
CONNECT 9383 9381
CONNECT 9384 9385 9386 9380
CONNECT 9385 9384
CONNECT 9386 9388 9384 9387
CONNECT 9387 9386
CONNECT 9388 9389 9396 9386
CONNECT 9389 9390 9388
CONNECT 9390 9391 9389
CONNECT 9391 9392 9390 9393
CONNECT 9392 9391
CONNECT 9393 9391 9395 9394
CONNECT 9394 9393
CONNECT 9395 9393
CONNECT 9396 9397 9388 9398
CONNECT 9397 9396
CONNECT 9398 9396 9400 9399
CONNECT 9399 9398
CONNECT 9400 9405 9398 9401
CONNECT 9401 9400 9402
CONNECT 9402 9404 9401 9403
CONNECT 9403 9402
CONNECT 9404 9402
CONNECT 9405 9406 9407 9400
CONNECT 9406 9405
CONNECT 9407 9409 9405 9408
CONNECT 9408 9407
CONNECT 9409 9414 9410 9407
CONNECT 9410 9411 9409
CONNECT 9411 9413 9412 9410
CONNECT 9412 9411
CONNECT 9413 9411
CONNECT 9414 9416 9415 9409
CONNECT 9415 9414
CONNECT 9416 9418 9417 9414
CONNECT 9417 9416
CONNECT 9418 9419 9424 9416
CONNECT 9419 9420 9418
CONNECT 9420 9421 9419
CONNECT 9421 9423 9422 9420
CONNECT 9422 9421
CONNECT 9423 9421
CONNECT 9424 9425 9418 9426
CONNECT 9425 9424
CONNECT 9426 9424 9428 9427
CONNECT 9427 9426
CONNECT 9428 9441 9429 9426
CONNECT 9429 9430 9428
CONNECT 9430 9431 9429
CONNECT 9431 9430 9432
CONNECT 9432 9434 9431 9433
CONNECT 9433 9432
CONNECT 9434 9435 9438 9432
CONNECT 9435 9437 9436 9434
CONNECT 9436 9435
CONNECT 9437 9435
CONNECT 9438 9434 9440 9439
CONNECT 9439 9438
CONNECT 9440 9438
CONNECT 9441 9442 9443 9428

CONNECT 9442 9441
CONNECT 9443 9445 9441 9444
CONNECT 9444 9443
CONNECT 9445 9446 9453 9443
CONNECT 9446 9447 9445
CONNECT 9447 9448 9449 9446
CONNECT 9448 9450 9447
CONNECT 9449 9451 9447
CONNECT 9450 9452 9448
CONNECT 9451 9452 9449
CONNECT 9452 9450 9451
CONNECT 9453 9445 9454 9455
CONNECT 9454 9453
CONNECT 9455 9453 9456 9457
CONNECT 9456 9455
CONNECT 9457 9455 9467 9458
CONNECT 9458 9457 9459
CONNECT 9459 9461 9460 9458
CONNECT 9460 9462 9459
CONNECT 9461 9463 9459
CONNECT 9462 9464 9460
CONNECT 9463 9464 9461
CONNECT 9464 9465 9463 9462
CONNECT 9465 9466 9464
CONNECT 9466 9465
CONNECT 9467 9457 9469 9468
CONNECT 9468 9467
CONNECT 9469 9470 9467 9471
CONNECT 9470 9469
CONNECT 9471 9469 9472 9476
CONNECT 9472 9473 9471
CONNECT 9473 9475 9474 9472
CONNECT 9474 9473
CONNECT 9475 9473
CONNECT 9476 9471 9477 9478
CONNECT 9477 9476
CONNECT 9478 9476 9480 9479
CONNECT 9479 9478 9483 9481
CONNECT 9480 9478 9482
CONNECT 9481 9482 9479
CONNECT 9482 9480 9481
CONNECT 9483 9484 9479 9485
CONNECT 9484 9483
CONNECT 9485 9483 9486 9487
CONNECT 9486 9485
CONNECT 9487 9485 9492 9488
CONNECT 9488 9487 9489
CONNECT 9489 9491 9488 9490
CONNECT 9490 9489
CONNECT 9491 9489
CONNECT 9492 9487 9493 9494
CONNECT 9493 9492
CONNECT 9494 9492 9495 9496
CONNECT 9495 9494
CONNECT 9496 9494 9498 9497
CONNECT 9497 9496
CONNECT 9498 9496 9499 9500
CONNECT 9499 9498
CONNECT 9500 9498 9501 9502
CONNECT 9501 9500
CONNECT 9502 9503 9500
CONNECT 9503 9504 9505 9502
CONNECT 9504 9503
CONNECT 9505 9507 9503 9506
CONNECT 9506 9505
CONNECT 9507 9508 9516 9505
CONNECT 9508 9507 9509
CONNECT 9509 9508 9510
CONNECT 9510 9509 9511
CONNECT 9511 9510 9512
CONNECT 9512 9515 9511 9514 9513
CONNECT 9512
CONNECT 9513 9512
CONNECT 9514 9512

CONNECT 9515 9512
CONNECT 9516 9518 9507 9517
CONNECT 9517 9516
CONNECT 9518 9519 9520 9516
CONNECT 9519 9518
CONNECT 9520 9524 9521 9518
CONNECT 9521 9522 9523 9520
CONNECT 9522 9521
CONNECT 9523 9521
CONNECT 9524 9525 9526 9520
CONNECT 9525 9524
CONNECT 9526 9528 9524 9527
CONNECT 9527 9526
CONNECT 9528 9533 9526 9529
CONNECT 9529 9528 9530
CONNECT 9530 9529 9532 9531
CONNECT 9531 9530
CONNECT 9532 9530
CONNECT 9533 9535 9528 9534
CONNECT 9534 9533
CONNECT 9535 9536 9537 9533
CONNECT 9536 9535
CONNECT 9537 9538 9542 9535
CONNECT 9538 9539 9537
CONNECT 9539 9540 9541 9538
CONNECT 9540 9539
CONNECT 9541 9539
CONNECT 9542 9537 9543 9544
CONNECT 9543 9542
CONNECT 9544 9542 9545 9546
CONNECT 9545 9544
CONNECT 9546 9547 9544 9551
CONNECT 9547 9548 9546
CONNECT 9548 9550 9547 9549
CONNECT 9549 9548
CONNECT 9550 9548
CONNECT 9551 9553 9546 9552
CONNECT 9552 9551
CONNECT 9553 9554 9555 9551
CONNECT 9554 9553
CONNECT 9555 9553 9556
CONNECT 9556 9558 9555 9557
CONNECT 9557 9556
CONNECT 9558 9559 9560 9556
CONNECT 9559 9558
CONNECT 9560 9561 9569 9558
CONNECT 9561 9562 9560
CONNECT 9562 9563 9561
CONNECT 9563 9564 9562
CONNECT 9564 9565 9563
CONNECT 9565 9567 9566 9568 9564
CONNECT 9565
CONNECT 9566 9565
CONNECT 9567 9565
CONNECT 9568 9565
CONNECT 9569 9570 9560 9571
CONNECT 9570 9569
CONNECT 9571 9569 9573 9572
CONNECT 9572 9571
CONNECT 9573 9579 9571 9574
CONNECT 9574 9573 9575
CONNECT 9575 9574 9576
CONNECT 9576 9577 9575 9578
CONNECT 9577 9576
CONNECT 9578 9576
CONNECT 9579 9580 9581 9573
CONNECT 9580 9579
CONNECT 9581 9583 9579 9582
CONNECT 9582 9581
CONNECT 9583 9584 9588 9581
CONNECT 9584 9586 9583 9585
CONNECT 9585 9584 9587
CONNECT 9586 9584
CONNECT 9587 9585

CONNECT 9588 9583 9590 9589
CONNECT 9589 9588
CONNECT 9590 9588 9592 9591
CONNECT 9591 9590
CONNECT 9592 9601 9590 9593
CONNECT 9593 9592 9594
CONNECT 9594 9593 9595
CONNECT 9595 9594 9596
CONNECT 9596 9595 9597
CONNECT 9597 9600 9599 9596 9598
CONNECT 9597
CONNECT 9598 9597
CONNECT 9599 9597
CONNECT 9600 9597
CONNECT 9601 9602 9603 9592
CONNECT 9602 9601
CONNECT 9603 9605 9601 9604
CONNECT 9604 9603
CONNECT 9605 9618 9606 9603
CONNECT 9606 9605 9607
CONNECT 9607 9606 9608
CONNECT 9608 9607 9609
CONNECT 9609 9608 9611 9610
CONNECT 9610 9609
CONNECT 9611 9612 9609 9615
CONNECT 9612 9614 9613 9611
CONNECT 9613 9612
CONNECT 9614 9612
CONNECT 9615 9611 9616 9617
CONNECT 9616 9615
CONNECT 9617 9615
CONNECT 9618 9620 9605 9619
CONNECT 9619 9618
CONNECT 9620 9622 9621 9618
CONNECT 9621 9620
CONNECT 9622 9627 9623 9620
CONNECT 9623 9624 9622
CONNECT 9624 9625 9626 9623
CONNECT 9625 9624
CONNECT 9626 9624
CONNECT 9627 9629 9628 9622
CONNECT 9628 9627
CONNECT 9629 9631 9630 9627
CONNECT 9630 9629
CONNECT 9631 9632 9638 9629
CONNECT 9632 9633 9631
CONNECT 9633 9635 9634 9632
CONNECT 9634 9633
CONNECT 9635 9637 9636 9633
CONNECT 9636 9635
CONNECT 9637 9635
CONNECT 9638 9640 9639 9631
CONNECT 9639 9638
CONNECT 9640 9641 9638 9642
CONNECT 9641 9640
CONNECT 9642 9646 9643 9640
CONNECT 9643 9644 9645 9642
CONNECT 9644 9643
CONNECT 9645 9643
CONNECT 9646 9648 9647 9642
CONNECT 9647 9646
CONNECT 9648 9650 9649 9646
CONNECT 9649 9648
CONNECT 9650 9651 9658 9648
CONNECT 9651 9652 9650
CONNECT 9652 9653 9651
CONNECT 9653 9655 9654 9652
CONNECT 9654 9653
CONNECT 9655 9657 9656 9653
CONNECT 9656 9655
CONNECT 9657 9655
CONNECT 9658 9650 9659 9660
CONNECT 9659 9658
CONNECT 9660 9658 9661 9662

CONNECT 9661 9660
CONNECT 9662 9660 9663 9674
CONNECT 9663 9662 9664
CONNECT 9664 9666 9663 9665
CONNECT 9665 9664 9669 9670
CONNECT 9666 9664 9667
CONNECT 9667 9666 9668 9669
CONNECT 9668 9667
CONNECT 9669 9667 9665 9671
CONNECT 9670 9665 9672
CONNECT 9671 9669 9673
CONNECT 9672 9670 9673
CONNECT 9673 9671 9672
CONNECT 9674 9662 9675 9676
CONNECT 9675 9674
CONNECT 9676 9674 9677 9678
CONNECT 9677 9676
CONNECT 9678 9676 9683 9679
CONNECT 9679 9678 9680
CONNECT 9680 9679 9682 9681
CONNECT 9681 9680
CONNECT 9682 9680
CONNECT 9683 9685 9678 9684
CONNECT 9684 9683
CONNECT 9685 9687 9686 9683
CONNECT 9686 9685
CONNECT 9687 9688 9700 9685
CONNECT 9688 9689 9687
CONNECT 9689 9688 9690
CONNECT 9690 9689 9691
CONNECT 9691 9690 9693 9692
CONNECT 9692 9691
CONNECT 9693 9694 9691 9697
CONNECT 9694 9696 9695 9693
CONNECT 9695 9694
CONNECT 9696 9694
CONNECT 9697 9693 9698 9699
CONNECT 9698 9697
CONNECT 9699 9697
CONNECT 9700 9702 9701 9687
CONNECT 9701 9700
CONNECT 9702 9704 9703 9700
CONNECT 9703 9702
CONNECT 9704 9705 9702 9706
CONNECT 9705 9704
CONNECT 9706 9704 9707 9708
CONNECT 9707 9706
CONNECT 9708 9706 9709 9710
CONNECT 9709 9708
CONNECT 9710 9708 9719 9714
CONNECT 9711 9718 9713 9712
CONNECT 9712 9711
CONNECT 9713 9717 9711 9714
CONNECT 9714 9710 9713
CONNECT 9715 9716 9718 9717
CONNECT 9716 9715
CONNECT 9717 9715 9713
CONNECT 9718 9715 9711
CONNECT 9719 9710 9721 9720
CONNECT 9720 9719
CONNECT 9721 9722 9719 9723
CONNECT 9722 9721
CONNECT 9723 9721 9728 9724
CONNECT 9724 9725 9723
CONNECT 9725 9727 9726 9724
CONNECT 9726 9725
CONNECT 9727 9725
CONNECT 9728 9729 9723 9730
CONNECT 9729 9728
CONNECT 9730 9728 9732 9731
CONNECT 9731 9730
CONNECT 9732 9730 9733
CONNECT 9733 9735 9732 9734
CONNECT 9734 9733

CONNECT 9735 9736 9737 9733
CONNECT 9736 9735
CONNECT 9737 9742 9735 9738
CONNECT 9738 9740 9737 9739
CONNECT 9739 9738 9741
CONNECT 9740 9738
CONNECT 9741 9739
CONNECT 9742 9743 9737 9744
CONNECT 9743 9742
CONNECT 9744 9742 9746 9745
CONNECT 9745 9744
CONNECT 9746 9747 9744 9750
CONNECT 9747 9749 9748 9746
CONNECT 9748 9747
CONNECT 9749 9747
CONNECT 9750 9746 9752 9751
CONNECT 9751 9750
CONNECT 9752 9753 9750 9754
CONNECT 9753 9752
CONNECT 9754 9752 9758 9755
CONNECT 9755 9754 9756
CONNECT 9756 9755 9757
CONNECT 9757 9756
CONNECT 9758 9759 9754 9760
CONNECT 9759 9758
CONNECT 9760 9758 9762 9761
CONNECT 9761 9760
CONNECT 9762 9770 9760 9763
CONNECT 9763 9762 9764
CONNECT 9764 9763 9765
CONNECT 9765 9764 9767 9766
CONNECT 9766 9765
CONNECT 9767 9769 9765 9768
CONNECT 9768 9767
CONNECT 9769 9767
CONNECT 9770 9772 9771 9762
CONNECT 9771 9770
CONNECT 9772 9774 9773 9770
CONNECT 9773 9772
CONNECT 9774 9780 9775 9772
CONNECT 9775 9776 9774
CONNECT 9776 9777 9775
CONNECT 9777 9779 9776 9778
CONNECT 9778 9777
CONNECT 9779 9777
CONNECT 9780 9782 9781 9774
CONNECT 9781 9780
CONNECT 9782 9783 9784 9780
CONNECT 9783 9787 9785 9782
CONNECT 9784 9786 9782
CONNECT 9785 9783 9786
CONNECT 9786 9785 9784
CONNECT 9787 9789 9788 9783
CONNECT 9788 9787
CONNECT 9789 9791 9790 9787
CONNECT 9790 9789
CONNECT 9791 9796 9792 9789
CONNECT 9792 9793 9791 9794
CONNECT 9793 9795 9792
CONNECT 9794 9792
CONNECT 9795 9793
CONNECT 9796 9798 9797 9791
CONNECT 9797 9796
CONNECT 9798 9800 9799 9796
CONNECT 9799 9798
CONNECT 9800 9805 9801 9798
CONNECT 9801 9800 9802
CONNECT 9802 9801 9804 9803
CONNECT 9803 9802
CONNECT 9804 9802
CONNECT 9805 9807 9806 9800
CONNECT 9806 9805
CONNECT 9807 9809 9808 9805
CONNECT 9808 9807

CONNECT 9809 9817 9810 9807
CONNECT 9810 9811 9809
CONNECT 9811 9813 9812 9810
CONNECT 9812 9814 9811
CONNECT 9813 9815 9811
CONNECT 9814 9816 9812
CONNECT 9815 9816 9813
CONNECT 9816 9815 9814
CONNECT 9817 9819 9818 9809
CONNECT 9818 9817
CONNECT 9819 9821 9820 9817
CONNECT 9820 9819
CONNECT 9821 9822 9826 9819
CONNECT 9822 9823 9821
CONNECT 9823 9822 9825 9824
CONNECT 9824 9823
CONNECT 9825 9823
CONNECT 9826 9827 9828 9821
CONNECT 9827 9826
CONNECT 9828 9830 9826 9829
CONNECT 9829 9828
CONNECT 9830 9833 9831 9828
CONNECT 9831 9830 9832
CONNECT 9832 9831
CONNECT 9833 9835 9830 9834
CONNECT 9834 9833
CONNECT 9835 9836 9837 9833
CONNECT 9836 9835
CONNECT 9837 9838 9835 9841
CONNECT 9838 9839 9837
CONNECT 9839 9840 9838
CONNECT 9840 9839
CONNECT 9841 9837 9842 9843
CONNECT 9842 9841
CONNECT 9843 9841 9844 9845
CONNECT 9844 9843
CONNECT 9845 9843 9850 9846
CONNECT 9846 9847 9845 9848
CONNECT 9847 9849 9846
CONNECT 9848 9846
CONNECT 9849 9847
CONNECT 9850 9852 9845 9851
CONNECT 9851 9850
CONNECT 9852 9853 9854 9850
CONNECT 9853 9852
CONNECT 9854 9855 9852 9856
CONNECT 9855 9854
CONNECT 9856 9858 9854 9857
CONNECT 9857 9856
CONNECT 9858 9859 9860 9856
CONNECT 9859 9858
CONNECT 9860 9861 9858 9866
CONNECT 9861 9862 9860
CONNECT 9862 9863 9861
CONNECT 9863 9865 9862 9864
CONNECT 9864 9863
CONNECT 9865 9863
CONNECT 9866 9860 9868 9867
CONNECT 9867 9866
CONNECT 9868 9866 9869 9870
CONNECT 9869 9868
CONNECT 9870 9868 9871 9877
CONNECT 9871 9872 9870
CONNECT 9872 9874 9873 9871
CONNECT 9873 9872
CONNECT 9874 9876 9875 9872
CONNECT 9875 9874
CONNECT 9876 9874
CONNECT 9877 9870 9879 9878
CONNECT 9878 9877
CONNECT 9879 9880 9877 9881
CONNECT 9880 9879
CONNECT 9881 9879 9882 9886
CONNECT 9882 9883 9881 9884

CONECT 9883 9882 9885
CONECT 9884 9882
CONECT 9885 9883
CONECT 9886 9888 9881 9887
CONECT 9887 9886
CONECT 9888 9889 9890 9886
CONECT 9889 9888
CONECT 9890 9891 9888 9892
CONECT 9891 9890
CONECT 9892 9890 9893 9894
CONECT 9893 9892
CONECT 9894 9892 9895 9896
CONECT 9895 9894
CONECT 9896 9894 9906 9897
CONECT 9897 9896 9898
CONECT 9898 9899 9897 9900
CONECT 9899 9901 9898
CONECT 9900 9898 9902
CONECT 9901 9899 9903
CONECT 9902 9903 9900
CONECT 9903 9901 9904 9902
CONECT 9904 9903 9905
CONECT 9905 9904
CONECT 9906 9908 9896 9907
CONECT 9907 9906
CONECT 9908 9909 9910 9906
CONECT 9909 9908
CONECT 9910 9908 9911
CONECT 9911 9910 9912 9913
CONECT 9912 9911
CONECT 9913 9911 9914 9915
CONECT 9914 9913
CONECT 9915 9913 9920 9916
CONECT 9916 9915 9917
CONECT 9917 9919 9916 9918
CONECT 9918 9917
CONECT 9919 9917
CONECT 9920 9922 9915 9921
CONECT 9921 9920
CONECT 9922 9924 9923 9920
CONECT 9923 9922
CONECT 9924 9931 9922 9925
CONECT 9925 9924 9926
CONECT 9926 9927 9925 9928
CONECT 9927 9926
CONECT 9928 9926 9930 9929
CONECT 9929 9928
CONECT 9930 9928
CONECT 9931 9932 9933 9924
CONECT 9932 9931
CONECT 9933 9935 9931 9934
CONECT 9934 9933
CONECT 9935 9936 9939 9933
CONECT 9936 9937 9935
CONECT 9937 9938 9936
CONECT 9938 9937
CONECT 9939 9940 9935 9941
CONECT 9940 9939
CONECT 9941 9939 9943 9942
CONECT 9942 9941
CONECT 9943 9956 9941 9944
CONECT 9944 9943 9945
CONECT 9945 9944 9946
CONECT 9946 9947 9945
CONECT 9947 9948 9949 9946
CONECT 9948 9947
CONECT 9949 9953 9947 9950
CONECT 9950 9949 9951 9952
CONECT 9951 9950
CONECT 9952 9950
CONECT 9953 9955 9954 9949
CONECT 9954 9953
CONECT 9955 9953
CONECT 9956 9958 9957 9943

CONNECT 9957 9956
CONNECT 9958 9960 9959 9956
CONNECT 9959 9958
CONNECT 9960 9961 9964 9958
CONNECT 9961 9963 9962 9960
CONNECT 9962 9961
CONNECT 9963 9961
CONNECT 9964 9966 9960 9965
CONNECT 9965 9964
CONNECT 9966 9967 9968 9964
CONNECT 9967 9966
CONNECT 9968 9969 9966 9972
CONNECT 9969 9971 9970 9968
CONNECT 9970 9969
CONNECT 9971 9969
CONNECT 9972 9973 9968 9974
CONNECT 9973 9972
CONNECT 9974 9972 9976 9975
CONNECT 9975 9974
CONNECT 9976 9974 9980 9977
CONNECT 9977 9976 9978
CONNECT 9978 9977 9979
CONNECT 9979 9978
CONNECT 9980 9982 9976 9981
CONNECT 9981 9980
CONNECT 9982 9983 9984 9980
CONNECT 9983 9982
CONNECT 9984 9985 9982 9992
CONNECT 9985 9986 9984
CONNECT 9986 9987 9985
CONNECT 9987 9989 9988 9986
CONNECT 9988 9987
CONNECT 9989 9990 9991 9987
CONNECT 9990 9989
CONNECT 9991 9989
CONNECT 9992 9984 9994 9993
CONNECT 9993 9992
CONNECT 9994 9995 9992 9996
CONNECT 9995 9994
CONNECT 9996 9994 999710002
CONNECT 9997 9998 9996
CONNECT 9998 9999 9997
CONNECT 99991000110000 9998
CONNECT10000 9999
CONNECT10001 9999
CONNECT10002 99961000410003
CONNECT1000310002
CONNECT10004100051000210006
CONNECT1000510004
CONNECT10006100041001210007
CONNECT100071000810006
CONNECT100081000710009
CONNECT10009100081001110010
CONNECT1001010009
CONNECT1001110009
CONNECT10012100141000610013
CONNECT1001310012
CONNECT10014100151001610012
CONNECT1001510014
CONNECT10016100171001410021
CONNECT10017100181001910016
CONNECT100181002010017
CONNECT1001910017
CONNECT1002010018
CONNECT10021100231001610022
CONNECT1002210021
CONNECT10023100241002510021
CONNECT1002410023
CONNECT10025100261002310029
CONNECT10026100271002810025
CONNECT1002710026
CONNECT1002810026
CONNECT10029100251003110030
CONNECT1003010029

CONNECT10031100321002910033
CONNECT1003210031
CONNECT10033100311003410046
CONNECT100341003310035
CONNECT100351003610034
CONNECT100361003710035
CONNECT10037100391003810036
CONNECT1003810037
CONNECT10039100431004010037
CONNECT10040100411003910042
CONNECT1004110040
CONNECT1004210040
CONNECT10043100441004510039
CONNECT1004410043
CONNECT1004510043
CONNECT10046100331004810047
CONNECT1004710046
CONNECT10048100491004610050
CONNECT1004910048
CONNECT10050100481005110052
CONNECT1005110050
CONNECT10052100541005010053
CONNECT1005310052
CONNECT10054100551005610052
CONNECT1005510054
CONNECT10056100571005410058
CONNECT1005710056
CONNECT10058100561006010059
CONNECT1005910058
CONNECT10060100611005810062
CONNECT1006110060
CONNECT10062100601006310071
CONNECT100631006410062
CONNECT100641006510063
CONNECT100651006610064
CONNECT100661006710065
CONNECT1006710068100661006910070
CONNECT10067
CONNECT1006810067
CONNECT1006910067
CONNECT1007010067
CONNECT10071100621007210073
CONNECT1007210071
CONNECT10073100711007410075
CONNECT1007410073
CONNECT10075100731008110076
CONNECT100761007510077
CONNECT100771007610078
CONNECT10078100771007910080
CONNECT1007910078
CONNECT1008010078
CONNECT10081100831007510082
CONNECT1008210081
CONNECT10083100841008510081
CONNECT1008410083
CONNECT10085100861008310087
CONNECT1008610085
CONNECT10087100891008510088
CONNECT1008810087
CONNECT10089100901009110087
CONNECT1009010089
CONNECT10091100981008910092
CONNECT100921009110093
CONNECT10093100921009510094
CONNECT1009410093
CONNECT10095100971009610093
CONNECT1009610095
CONNECT1009710095
CONNECT10098101001009910091
CONNECT1009910098
CONNECT10100101021010110098
CONNECT1010110100
CONNECT10102101071010310100
CONNECT10103101051010410102

CONNECT101041010610103
CONNECT1010510103
CONNECT1010610104
CONNECT10107101081010910102
CONNECT1010810107
CONNECT10109101111010710110
CONNECT1011010109
CONNECT10111101201011510109
CONNECT10112101191011310114
CONNECT1011310112
CONNECT10114101121011810115
CONNECT101151011410111
CONNECT10116101171011910118
CONNECT1011710116
CONNECT101181011610114
CONNECT101191011610112
CONNECT10120101211011110122
CONNECT1012110120
CONNECT10122101201012410123
CONNECT1012310122
CONNECT10124101261012210125
CONNECT1012510124
CONNECT10126101271012810124
CONNECT1012710126
CONNECT10128101301012610129
CONNECT1012910128
CONNECT10130101381013110128
CONNECT101311013010132
CONNECT10132101311013410133
CONNECT101331013210135
CONNECT101341013210136
CONNECT101351013310137
CONNECT101361013410137
CONNECT101371013610135
CONNECT10138101391014010130
CONNECT1013910138
CONNECT10140101421013810141
CONNECT1014110140
CONNECT10142101471014310140
CONNECT10143101451014210144
CONNECT101441014310146
CONNECT1014510143
CONNECT1014610144
CONNECT10147101481014910142
CONNECT1014810147
CONNECT10149101511014710150
CONNECT1015010149
CONNECT10151101571014910152
CONNECT101521015110153
CONNECT101531015210154
CONNECT10154101531015610155
CONNECT1015510154
CONNECT1015610154
CONNECT10157101581015910151
CONNECT1015810157
CONNECT10159101611015710160
CONNECT1016010159
CONNECT10161101651016210159
CONNECT101621016110163
CONNECT101631016210164
CONNECT1016410163
CONNECT10165101661016110167
CONNECT1016610165
CONNECT10167101651016910168
CONNECT1016810167
CONNECT10169101741016710170
CONNECT101701016910171
CONNECT10171101721017010173
CONNECT1017210171
CONNECT1017310171
CONNECT10174101761017510169
CONNECT1017510174
CONNECT10176101771017810174
CONNECT10177101791018110176

CONNECT101781018010176
CONNECT101791017710180
CONNECT101801017910178
CONNECT10181101831017710182
CONNECT1018210181
CONNECT10183101841018510181
CONNECT1018410183
CONNECT10185101861018310192
CONNECT101861018710185
CONNECT10187101881018910186
CONNECT1018810187
CONNECT10189101901018710191
CONNECT1019010189
CONNECT1019110189
CONNECT10192101851019310194
CONNECT1019310192
CONNECT10194101921019510196
CONNECT1019510194
CONNECT10196101941019710205
CONNECT101971019810196
CONNECT101981019910197
CONNECT101991020010198
CONNECT102001020110199
CONNECT1020110204102021020010203
CONNECT10201
CONNECT1020210201
CONNECT1020310201
CONNECT1020410201
CONNECT10205101961020710206
CONNECT1020610205
CONNECT10207102081020510209
CONNECT1020810207
CONNECT10209102191020710210
CONNECT102101020910211
CONNECT10211102101021310212
CONNECT102121021110214
CONNECT102131021110215
CONNECT102141021210216
CONNECT102151021310216
CONNECT10216102151021410217
CONNECT102171021610218
CONNECT1021810217
CONNECT10219102211022010209
CONNECT1022010219
CONNECT10221102231022210219
CONNECT1022210221
CONNECT10223102241022710221
CONNECT102241022510223
CONNECT102251022610224
CONNECT1022610225
CONNECT10227102281022310229
CONNECT1022810227
CONNECT10229102271023110230
CONNECT1023010229
CONNECT10231102291023610232
CONNECT10232102311023310235
CONNECT102331023410232
CONNECT1023410233
CONNECT1023510232
CONNECT10236102381023110237
CONNECT1023710236
CONNECT10238102391024010236
CONNECT1023910238
CONNECT10240102411023810249
CONNECT102411024210240
CONNECT102421024310241
CONNECT102431024210244
CONNECT102441024310245
CONNECT1024510248102471024610244
CONNECT10245
CONNECT1024610245
CONNECT1024710245
CONNECT1024810245
CONNECT10249102401025010251

CONNECT1025010249
CONNECT10251102491025210253
CONNECT1025210251
CONNECT10253102511025710254
CONNECT10254102551025310256
CONNECT1025510254
CONNECT1025610254
CONNECT10257102591025310258
CONNECT1025810257
CONNECT10259102601026110257
CONNECT1026010259
CONNECT102611025910262
CONNECT10262102641026110263
CONNECT1026310262
CONNECT10264102651026610262
CONNECT1026510264
CONNECT10266102641026710271
CONNECT102671026610268
CONNECT10268102701026710269
CONNECT1026910268
CONNECT1027010268
CONNECT10271102661027310272
CONNECT1027210271
CONNECT10273102741027110275
CONNECT1027410273
CONNECT10275102731027610284
CONNECT102761027510277
CONNECT102771027810276
CONNECT102781027910277
CONNECT102791028010278
CONNECT1028010282102811028310279
CONNECT10280
CONNECT1028110280
CONNECT1028210280
CONNECT1028310280
CONNECT10284102751028610285
CONNECT1028510284
CONNECT10286102871028410288
CONNECT1028710286
CONNECT102881028610289
CONNECT10289102881029110290
CONNECT1029010289
CONNECT10291102921028910293
CONNECT1029210291
CONNECT10293102981029410291
CONNECT10294102951029310297
CONNECT102951029610294
CONNECT1029610295
CONNECT1029710294
CONNECT10298102991030010293
CONNECT1029910298
CONNECT10300102981030210301
CONNECT1030110300
CONNECT10302103031030010310
CONNECT103031030410302
CONNECT103041030510303
CONNECT10305103061030710304
CONNECT1030610305
CONNECT10307103091030510308
CONNECT1030810307
CONNECT1030910307
CONNECT10310103021031110312
CONNECT1031110310
CONNECT10312103101031310314
CONNECT1031310312
CONNECT10314103121031510319
CONNECT103151031610314
CONNECT10316103171031810315
CONNECT1031710316
CONNECT1031810316
CONNECT10319103141032010321
CONNECT1032010319
CONNECT10321103191032210323
CONNECT1032210321

CONNECT10323103211032710324
CONNECT103241032310325
CONNECT103251032410326
CONNECT1032610325
CONNECT10327103281032310329
CONNECT1032810327
CONNECT10329103271033010331
CONNECT1033010329
CONNECT103311032910332
CONNECT10332103311033310334
CONNECT1033310332
CONNECT10334103321033510336
CONNECT1033510334
CONNECT103361033710334
CONNECT10337103391033810336
CONNECT1033810337
CONNECT10339103411034010337
CONNECT1034010339
CONNECT10341103421034910339
CONNECT103421034310341
CONNECT103431034210344
CONNECT10344103461034310345
CONNECT1034510344
CONNECT10346103481034710344
CONNECT1034710346
CONNECT1034810346
CONNECT10349103501035110341
CONNECT1035010349
CONNECT10351103531034910352
CONNECT1035210351
CONNECT10353103511035410362
CONNECT103541035510353
CONNECT103551035610354
CONNECT103561035710355
CONNECT103571035810356
CONNECT1035810359103571036010361
CONNECT10358
CONNECT1035910358
CONNECT1036010358
CONNECT1036110358
CONNECT10362103531036310364
CONNECT1036310362
CONNECT10364103621036510366
CONNECT1036510364
CONNECT10366103641037410367
CONNECT103671036610368
CONNECT103681036710369
CONNECT10369103701036810371
CONNECT1037010369
CONNECT10371103691037310372
CONNECT1037210371
CONNECT1037310371
CONNECT10374103761037510366
CONNECT1037510374
CONNECT10376103781037710374
CONNECT1037710376
CONNECT10378103911037910376
CONNECT103791037810380
CONNECT103801037910381
CONNECT103811038010382
CONNECT10382103811038310384
CONNECT1038310382
CONNECT10384103821038510388
CONNECT10385103871038410386
CONNECT1038610385
CONNECT1038710385
CONNECT10388103841039010389
CONNECT1038910388
CONNECT1039010388
CONNECT10391103931039210378
CONNECT1039210391
CONNECT10393103951039410391
CONNECT1039410393
CONNECT10395103961040010393

CONNECT10396103981039710395
CONNECT103971039910396
CONNECT1039810396
CONNECT1039910397
CONNECT10400103951040110402
CONNECT1040110400
CONNECT10402104001040310404
CONNECT1040310402
CONNECT10404104021040610405
CONNECT1040510404
CONNECT10406104041040710408
CONNECT1040710406
CONNECT10408104061040910410
CONNECT1040910408
CONNECT10410104151040810411
CONNECT10411104101041310412
CONNECT104121041110414
CONNECT1041310411
CONNECT1041410412
CONNECT10415104171041610410
CONNECT1041610415
CONNECT10417104191041810415
CONNECT1041810417
CONNECT10419104201042110417
CONNECT1042010419
CONNECT10421104231041910422
CONNECT1042210421
CONNECT10423104251042410421
CONNECT1042410423
CONNECT10425104261042310438
CONNECT104261042510427
CONNECT104271042610428
CONNECT104281042910427
CONNECT10429104311042810430
CONNECT1043010429
CONNECT10431104321043510429
CONNECT10432104331043410431
CONNECT1043310432
CONNECT1043410432
CONNECT10435104361043110437
CONNECT1043610435
CONNECT1043710435
CONNECT10438104251043910440
CONNECT1043910438
CONNECT10440104381044110442
CONNECT1044110440
CONNECT10442104401044410443
CONNECT1044310442
CONNECT10444104451044210446
CONNECT1044510444
CONNECT10446104441044810447
CONNECT1044710446
CONNECT10448104531044610449
CONNECT104491044810450
CONNECT10450104491045210451
CONNECT1045110450
CONNECT1045210450
CONNECT10453104551045410448
CONNECT1045410453
CONNECT10455104571045610453
CONNECT1045610455
CONNECT10457104581046110455
CONNECT10458104591046010457
CONNECT1045910458
CONNECT1046010458
CONNECT10461104621045710463
CONNECT1046210461
CONNECT10463104611046510464
CONNECT1046410463
CONNECT10465104631046610478
CONNECT104661046510467
CONNECT104671046610468
CONNECT104681046910467
CONNECT10469104701047110468

CONNECT1047010469
CONNECT10471104751046910472
CONNECT10472104711047310474
CONNECT1047310472
CONNECT1047410472
CONNECT10475104771047610471
CONNECT1047610475
CONNECT1047710475
CONNECT10478104651047910480
CONNECT1047910478
CONNECT10480104781048110482
CONNECT1048110480
CONNECT10482104801048310490
CONNECT104831048410482
CONNECT104841048510483
CONNECT10485104871048610484
CONNECT1048610485
CONNECT10487104881048910485
CONNECT1048810487
CONNECT1048910487
CONNECT10490104821049110492
CONNECT1049110490
CONNECT10492104901049410493
CONNECT10493104921049510497
CONNECT104941049210496
CONNECT104951049610493
CONNECT104961049410495
CONNECT10497104931049810499
CONNECT1049810497
CONNECT10499104971050010501
CONNECT1050010499
CONNECT10501104991050510510
CONNECT10502105091050310504
CONNECT1050310502
CONNECT10504105021050810505
CONNECT105051050410501
CONNECT10506105091050710508
CONNECT1050710506
CONNECT105081050610504
CONNECT105091050210506
CONNECT10510105011051210511
CONNECT1051110510
CONNECT10512105131051010514
CONNECT1051310512
CONNECT10514105121051910515
CONNECT10515105171051410516
CONNECT105161051510518
CONNECT1051710515
CONNECT1051810516
CONNECT10519105201051410521
CONNECT1052010519
CONNECT10521105191052310522
CONNECT1052210521
CONNECT10523105241052110528
CONNECT105241052510523
CONNECT10525105271052610524
CONNECT1052610525
CONNECT1052710525
CONNECT10528105231053010529
CONNECT1052910528
CONNECT10530105311052810532
CONNECT1053110530
CONNECT10532105301053310537
CONNECT105331053410532
CONNECT10534105351053310536
CONNECT1053510534
CONNECT1053610534
CONNECT10537105381053210539
CONNECT1053810537
CONNECT10539105371054110540
CONNECT1054010539
CONNECT10541105421053910546
CONNECT105421054310541
CONNECT10543105441054510542

CONNECT1054410543
CONNECT1054510543
CONNECT10546105411054810547
CONNECT1054710546
CONNECT10548105491054610550
CONNECT1054910548
CONNECT10550105511054810555
CONNECT105511055010552
CONNECT10552105511055410553
CONNECT1055310552
CONNECT1055410552
CONNECT10555105561055010557
CONNECT1055610555
CONNECT10557105551055910558
CONNECT1055810557
CONNECT10559105651055710560
CONNECT105601055910561
CONNECT105611056010562
CONNECT10562105631056110564
CONNECT1056310562
CONNECT1056410562
CONNECT10565105671056610559
CONNECT1056610565
CONNECT10567105691056810565
CONNECT1056810567
CONNECT10569105701057110567
CONNECT1057010569
CONNECT10571105721056910573
CONNECT1057210571
CONNECT10573105711057510574
CONNECT1057410573
CONNECT10575105761057310580
CONNECT10576105791057510577
CONNECT105771057610578
CONNECT1057810577
CONNECT1057910576
CONNECT10580105751058210581
CONNECT1058110580
CONNECT10582105831058010584
CONNECT1058310582
CONNECT10584105821058810585
CONNECT105851058410586
CONNECT105861058510587
CONNECT1058710586
CONNECT10588105901058410589
CONNECT1058910588
CONNECT10590105911059210588
CONNECT1059110590
CONNECT10592105941059310590
CONNECT1059310592
CONNECT10594105951059610592
CONNECT1059510594
CONNECT10596105981059410597
CONNECT1059710596
CONNECT10598105991060310596
CONNECT105991060010598
CONNECT10600106011059910602
CONNECT1060110600
CONNECT1060210600
CONNECT10603105981060510604
CONNECT1060410603
CONNECT10605106061060310607
CONNECT1060610605
CONNECT10607106081060510612
CONNECT106081060910607
CONNECT10609106111061010608
CONNECT1061010609
CONNECT1061110609
CONNECT10612106071061310614
CONNECT1061310612
CONNECT10614106121061510616
CONNECT1061510614
CONNECT10616106211061410617
CONNECT10617106201061610618

CONNECT106181061710619
CONNECT1061910618
CONNECT1062010617
CONNECT10621106231062210616
CONNECT1062210621
CONNECT10623106251062410621
CONNECT1062410623
CONNECT10625106261063110623
CONNECT106261062710625
CONNECT106271062810626
CONNECT10628106291063010627
CONNECT1062910628
CONNECT1063010628
CONNECT10631106331063210625
CONNECT1063210631
CONNECT10633106351063410631
CONNECT1063410633
CONNECT10635106361063310639
CONNECT106361063710635
CONNECT106371063810636
CONNECT1063810637
CONNECT10639106351064010641
CONNECT1064010639
CONNECT10641106391064210643
CONNECT1064210641
CONNECT10643106411064910644
CONNECT106441064310645
CONNECT106451064410646
CONNECT10646106451064810647
CONNECT1064710646
CONNECT1064810646
CONNECT10649106431065010651
CONNECT1065010649
CONNECT10651106491065210653
CONNECT1065210651
CONNECT10653106621065110654
CONNECT106541065510653
CONNECT106551065610654
CONNECT106561065710655
CONNECT106571065810656
CONNECT1065810659106611065710660
CONNECT10658
CONNECT1065910658
CONNECT1066010658
CONNECT1066110658
CONNECT10662106641066310653
CONNECT1066310662
CONNECT10664106661066510662
CONNECT1066510664
CONNECT10666106671067010664
CONNECT10667106691066810666
CONNECT1066810667
CONNECT1066910667
CONNECT10670106711066610672
CONNECT1067110670
CONNECT10672106701067410673
CONNECT1067310672
CONNECT10674106751067210678
CONNECT10675106761067410677
CONNECT1067610675
CONNECT1067710675
CONNECT10678106741067910680
CONNECT1067910678
CONNECT10680106781068110682
CONNECT1068110680
CONNECT10682106801069010683
CONNECT106831068210684
CONNECT106841068310685
CONNECT10685106861068410687
CONNECT1068610685
CONNECT10687106851068910688
CONNECT1068810687
CONNECT1068910687
CONNECT10690106921068210691

CONNECT1069110690
CONNECT10692106941069310690
CONNECT1069310692
CONNECT10694107001069510692
CONNECT106951069610694
CONNECT106961069710695
CONNECT10697106981069910696
CONNECT1069810697
CONNECT1069910697
CONNECT10700107021070110694
CONNECT1070110700
CONNECT10702107041070310700
CONNECT1070310702
CONNECT10704107051070610702
CONNECT1070510704
CONNECT10706107041070710708
CONNECT1070710706
CONNECT10708107061070910710
CONNECT1070910708
CONNECT10710107081071510711
CONNECT107111071010712
CONNECT10712107111071310714
CONNECT1071310712
CONNECT1071410712
CONNECT10715107101071610717
CONNECT1071610715
CONNECT10717107151071810719
CONNECT1071810717
CONNECT10719107171072410720
CONNECT107201071910721
CONNECT10721107201072310722
CONNECT1072210721
CONNECT1072310721
CONNECT10724107261072510719
CONNECT1072510724
CONNECT10726107281072710724
CONNECT1072710726
CONNECT10728107291073710726
CONNECT107291073010728
CONNECT107301073110729
CONNECT107311073210730
CONNECT107321073110733
CONNECT1073310732107361073510734
CONNECT10733
CONNECT1073410733
CONNECT1073510733
CONNECT1073610733
CONNECT10737107381073910728
CONNECT1073810737
CONNECT10739107411073710740
CONNECT1074010739
CONNECT10741107421073910743
CONNECT1074210741
CONNECT10743107411074410745
CONNECT1074410743
CONNECT10745107431074610747
CONNECT1074610745
CONNECT10747107451076010748
CONNECT107481074710749
CONNECT107491074810750
CONNECT107501074910751
CONNECT10751107521075010753
CONNECT1075210751
CONNECT10753107511075710754
CONNECT10754107531075610755
CONNECT1075510754
CONNECT1075610754
CONNECT10757107591075310758
CONNECT1075810757
CONNECT1075910757
CONNECT10760107611074710762
CONNECT1076110760
CONNECT10762107601076310764
CONNECT1076310762

CONNECT10764107701076210765
CONNECT107651076410766
CONNECT107661076510767
CONNECT10767107681076910766
CONNECT1076810767
CONNECT1076910767
CONNECT10770107721077110764
CONNECT1077110770
CONNECT10772107741077310770
CONNECT1077310772
CONNECT107741077510772
CONNECT10775107741077610777
CONNECT1077610775
CONNECT10777107751077910778
CONNECT1077810777
CONNECT10779107801077710792
CONNECT107801078110779
CONNECT107811078210780
CONNECT107821078310781
CONNECT10783107851078410782
CONNECT1078410783
CONNECT10785107891078610783
CONNECT10786107881078510787
CONNECT1078710786
CONNECT1078810786
CONNECT10789107911079010785
CONNECT1079010789
CONNECT1079110789
CONNECT10792107791079410793
CONNECT1079310792
CONNECT10794107921079510796
CONNECT1079510794
CONNECT10796107941080110797
CONNECT10797108001079610798
CONNECT107981079710799
CONNECT1079910798
CONNECT1080010797
CONNECT10801108021079610803
CONNECT1080210801
CONNECT10803108011080510804
CONNECT1080410803
CONNECT10805108061080310808
CONNECT108061080710805
CONNECT1080710806
CONNECT10808108051081010809
CONNECT1080910808
CONNECT10810108111080810812
CONNECT1081110810
CONNECT10812108101081710813
CONNECT10813108121081410815
CONNECT108141081310816
CONNECT1081510813
CONNECT1081610814
CONNECT10817108181081210819
CONNECT1081810817
CONNECT10819108171082110820
CONNECT1082010819
CONNECT10821108221081910825
CONNECT10822108231082110824
CONNECT1082310822
CONNECT1082410822
CONNECT10825108211082710826
CONNECT1082610825
CONNECT10827108281082510829
CONNECT1082810827
CONNECT10829108271083410830
CONNECT10830108311083210829
CONNECT108311083310830
CONNECT1083210830
CONNECT1083310831
CONNECT10834108351082910836
CONNECT1083510834
CONNECT10836108341083810837
CONNECT1083710836

CONNECT10838108391083610840
CONNECT1083910838
CONNECT10840108381084210841
CONNECT1084110840
CONNECT10842108431084010844
CONNECT1084310842
CONNECT10844108421084810853
CONNECT10845108471084610852
CONNECT1084610845
CONNECT10847108481085110845
CONNECT108481084410847
CONNECT10849108511085210850
CONNECT1085010849
CONNECT108511084710849
CONNECT108521084510849
CONNECT10853108551084410854
CONNECT1085410853
CONNECT10855108561085710853
CONNECT1085610855
CONNECT10857108581085510870
CONNECT108581085910857
CONNECT108591086010858
CONNECT108601086110859
CONNECT10861108631086210860
CONNECT1086210861
CONNECT10863108671086410861
CONNECT10864108661086310865
CONNECT1086510864
CONNECT1086610864
CONNECT10867108691086810863
CONNECT1086810867
CONNECT1086910867
CONNECT10870108571087110872
CONNECT1087110870
CONNECT10872108701087310874
CONNECT1087310872
CONNECT10874108721087910875
CONNECT108751087410876
CONNECT10876108781087510877
CONNECT1087710876
CONNECT1087810876
CONNECT10879108811087410880
CONNECT1088010879
CONNECT10881108821088310879
CONNECT1088210881
CONNECT10883108841088710881
CONNECT108841088510883
CONNECT108851088610884
CONNECT1088610885
CONNECT10887108891088310888
CONNECT1088810887
CONNECT10889108911089010887
CONNECT1089010889
CONNECT10891108921089610889
CONNECT10892108931089510891
CONNECT108931089410892
CONNECT1089410893
CONNECT1089510892
CONNECT10896108971089110898
CONNECT1089710896
CONNECT10898108961090010899
CONNECT1089910898
CONNECT10900108981090110905
CONNECT10901109001090210903
CONNECT109021090410901
CONNECT1090310901
CONNECT1090410902
CONNECT10905109001090610907
CONNECT1090610905
CONNECT10907109051090810909
CONNECT1090810907
CONNECT10909109071091710910
CONNECT109101090910911
CONNECT109111091010912

CONNECT10912109111091310914
CONNECT1091310912
CONNECT10914109121091610915
CONNECT1091510914
CONNECT1091610914
CONNECT10917109191090910918
CONNECT1091810917
CONNECT10919109201092110917
CONNECT1092010919
CONNECT10921109221092810919
CONNECT109221092310921
CONNECT10923109251092410922
CONNECT1092410923
CONNECT10925109271092610923
CONNECT1092610925
CONNECT1092710925
CONNECT10928109291092110930
CONNECT1092910928
CONNECT10930109281093210931
CONNECT1093110930
CONNECT10932109301093310934
CONNECT1093310932
CONNECT10934109321093610935
CONNECT1093510934
CONNECT10936109371093410938
CONNECT1093710936
CONNECT10938109391093610943
CONNECT109391094010938
CONNECT10940109421094110939
CONNECT1094110940
CONNECT1094210940
CONNECT10943109381094510944
CONNECT1094410943
CONNECT10945109461094310947
CONNECT1094610945
CONNECT10947109451095210948
CONNECT109481094710949
CONNECT10949109481095110950
CONNECT1095010949
CONNECT1095110949
CONNECT10952109531094710954
CONNECT1095310952
CONNECT10954109521095610955
CONNECT1095510954
CONNECT10956109541095710961
CONNECT10957109581095610959
CONNECT109581096010957
CONNECT1095910957
CONNECT1096010958
CONNECT10961109561096310962
CONNECT1096210961
CONNECT10963109641096110965
CONNECT1096410963
CONNECT10965109661096310969
CONNECT10966109681096510967
CONNECT1096710966
CONNECT1096810966
CONNECT10969109701096510971
CONNECT1097010969
CONNECT10971109691097310972
CONNECT1097210971
CONNECT10973109711097710974
CONNECT10974109731097610975
CONNECT1097510974
CONNECT1097610974
CONNECT10977109791097310978
CONNECT1097810977
CONNECT10979109801098110977
CONNECT1098010979
CONNECT10981109821097910989
CONNECT109821098310981
CONNECT10983109851098410982
CONNECT109841098610983
CONNECT109851098710983

CONNECT109861098810984
CONNECT109871098810985
CONNECT109881098710986
CONNECT10989109901098110991
CONNECT1099010989
CONNECT10991109891099310992
CONNECT1099210991
CONNECT10993110011099110994
CONNECT109941099310995
CONNECT109951099610994
CONNECT10996109971099510998
CONNECT1099710996
CONNECT10998109961099911000
CONNECT1099910998
CONNECT1100010998
CONNECT11001110031100210993
CONNECT1100211001
CONNECT11003110051100411001
CONNECT1100411003
CONNECT11005110061101211003
CONNECT110061100711005
CONNECT11007110081100911006
CONNECT1100811007
CONNECT11009110071101111010
CONNECT1101011009
CONNECT1101111009
CONNECT11012110131100511014
CONNECT1101311012
CONNECT11014110121101611015
CONNECT1101511014
CONNECT110161101411017
CONNECT11017110161101811019
CONNECT1101811017
CONNECT11019110171102011021
CONNECT1102011019
CONNECT11021110191103411022
CONNECT110221102111023
CONNECT110231102211024
CONNECT110241102311025
CONNECT11025110241102611027
CONNECT1102611025
CONNECT11027110251102811031
CONNECT11028110291103011027
CONNECT1102911028
CONNECT1103011028
CONNECT11031110271103211033
CONNECT1103211031
CONNECT1103311031
CONNECT11034110211103511036
CONNECT1103511034
CONNECT11036110341103711038
CONNECT1103711036
CONNECT11038110391103611042
CONNECT11039110411104011038
CONNECT1104011039
CONNECT1104111039
CONNECT11042110381104411043
CONNECT1104311042
CONNECT11044110451104211046
CONNECT1104511044
CONNECT11046110441105511047
CONNECT110471104611048
CONNECT110481104711049
CONNECT110491104811050
CONNECT110501104911051
CONNECT1105111053110541105011052
CONNECT11051
CONNECT1105211051
CONNECT1105311051
CONNECT1105411051
CONNECT11055110571104611056
CONNECT1105611055
CONNECT11057110581105911055
CONNECT1105811057

CONNECT11059110651105711060
CONNECT110601105911061
CONNECT110611106011062
CONNECT11062110631106111064
CONNECT1106311062
CONNECT1106411062
CONNECT11065110661106711059
CONNECT1106611065
CONNECT11067110691106511068
CONNECT1106811067
CONNECT11069110731107811067
CONNECT11070110711107211077
CONNECT1107111070
CONNECT11072110731107011076
CONNECT110731107211069
CONNECT11074110761107711075
CONNECT1107511074
CONNECT110761107211074
CONNECT110771107011074
CONNECT11078110801106911079
CONNECT1107911078
CONNECT11080110811108211078
CONNECT1108111080
CONNECT110821108311080
CONNECT11083110841108511082
CONNECT1108411083
CONNECT11085110871108311086
CONNECT1108611085
CONNECT11087110881109211085
CONNECT11088110891108711091
CONNECT110891109011088
CONNECT1109011089
CONNECT1109111088
CONNECT11092110941108711093
CONNECT1109311092
CONNECT11094110951109611092
CONNECT1109511094
CONNECT11096111001109411105
CONNECT11097110991110411098
CONNECT1109811097
CONNECT11099111031110011097
CONNECT111001109911096
CONNECT11101111031110211104
CONNECT1110211101
CONNECT111031110111099
CONNECT111041110111097
CONNECT11105110961110711106
CONNECT1110611105
CONNECT11107111081110511109
CONNECT1110811107
CONNECT11109111071111011117
CONNECT111101110911111
CONNECT111111111211110
CONNECT11112111131111411111
CONNECT1111311112
CONNECT11114111161111211115
CONNECT1111511114
CONNECT1111611114
CONNECT11117111091111911118
CONNECT1111811117
CONNECT11119111201111711121
CONNECT1112011119
CONNECT11121111191112211129
CONNECT111221112111123
CONNECT111231112211124
CONNECT11124111251112611123
CONNECT1112511124
CONNECT11126111281112411127
CONNECT1112711126
CONNECT1112811126
CONNECT11129111311112111130
CONNECT1113011129
CONNECT11131111321113311129
CONNECT1113211131

CONNECT11133111341113111138
CONNECT111341113511133
CONNECT11135111371113611134
CONNECT1113611135
CONNECT1113711135
CONNECT11138111331114011139
CONNECT1113911138
CONNECT11140111411113811142
CONNECT1114111140
CONNECT11142111401114311147
CONNECT111431114211144
CONNECT11144111431114511146
CONNECT1114511144
CONNECT1114611144
CONNECT11147111421114911148
CONNECT1114811147
CONNECT11149111501114711151
CONNECT1115011149
CONNECT11151111491115211153
CONNECT1115211151
CONNECT11153111551115111154
CONNECT1115411153
CONNECT11155111561115711153
CONNECT1115611155
CONNECT11157111581115511165
CONNECT111581115911157
CONNECT111591116011158
CONNECT11160111621116111159
CONNECT1116111160
CONNECT11162111631116411160
CONNECT1116311162
CONNECT1116411162
CONNECT11165111661115711167
CONNECT1116611165
CONNECT11167111651116911168
CONNECT1116811167
CONNECT11169111781116711170
CONNECT111701116911171
CONNECT111711117011172
CONNECT111721117111173
CONNECT111731117411172
CONNECT1117411177111761117511173
CONNECT11174
CONNECT1117511174
CONNECT1117611174
CONNECT1117711174
CONNECT11178111801116911179
CONNECT1117911178
CONNECT11180111811118211178
CONNECT1118111180
CONNECT111821118311180
CONNECT11183111851118411182
CONNECT1118411183
CONNECT11185111871118611183
CONNECT1118611185
CONNECT11187111921118811185
CONNECT11188111901118711189
CONNECT111891118811191
CONNECT1119011188
CONNECT1119111189
CONNECT11192111931119411187
CONNECT1119311192
CONNECT11194111961119211195
CONNECT1119511194
CONNECT11196111971120611194
CONNECT111971119811196
CONNECT11198111991120011197
CONNECT111991120111198
CONNECT112001120211198
CONNECT112011120311199
CONNECT112021120311200
CONNECT11203112041120111202
CONNECT112041120511203
CONNECT1120511204

CONNECT11206112071119611208
CONNECT1120711206
CONNECT11208112061121011209
CONNECT1120911208
CONNECT11210112081121811211
CONNECT112111121011212
CONNECT11212112111121311214
CONNECT112131121211215
CONNECT112141121211216
CONNECT112151121311217
CONNECT112161121411217
CONNECT112171121511216
CONNECT11218112191122011210
CONNECT1121911218
CONNECT11220112181122211221
CONNECT1122111220
CONNECT11222112261122011223
CONNECT112231122211224
CONNECT112241122311225
CONNECT1122511224
CONNECT11226112281122711222
CONNECT1122711226
CONNECT11228112301122911226
CONNECT1122911228
CONNECT11230112311123511228
CONNECT112311123211230
CONNECT112321123311231
CONNECT112331123211234
CONNECT1123411233
CONNECT11235112361123011237
CONNECT1123611235
CONNECT11237112351123911238
CONNECT1123811237
CONNECT11239112371124011243
CONNECT11240112411123911242
CONNECT1124111240
CONNECT1124211240
CONNECT11243112441123911245
CONNECT1124411243
CONNECT11245112431124611247
CONNECT1124611245
CONNECT11247112511124511248
CONNECT112481124711249
CONNECT112491124811250
CONNECT1125011249
CONNECT11251112531125211247
CONNECT1125211251
CONNECT11253112551125411251
CONNECT1125411253
CONNECT11255112591125611253
CONNECT11256112571125811255
CONNECT1125711256
CONNECT1125811256
CONNECT11259112601126111255
CONNECT1126011259
CONNECT11261112631125911262
CONNECT1126211261
CONNECT11263112641127111261
CONNECT112641126511263
CONNECT112651126611264
CONNECT11266112681126511267
CONNECT1126711266
CONNECT11268112691127011266
CONNECT1126911268
CONNECT1127011268
CONNECT11271112721126311273
CONNECT1127211271
CONNECT11273112711127511274
CONNECT1127411273
CONNECT11275112731127711276
CONNECT1127611275
CONNECT11277112781127511279
CONNECT1127811277
CONNECT1127911277

END