

Residue,Conservation_Score, Conservation_percentile

M ,0,3.4375
D ,0,3.4375
L ,0,3.4375
E ,0,3.4375
G ,0,3.4375
D ,0,3.4375
R ,0,3.4375
N ,1,8.28125
G ,1,8.28125
G ,1,8.28125
A ,1,8.28125
K ,1,8.28125
K ,2,10.625
K ,1,8.28125
N ,1,8.28125
F ,1,8.28125
F ,1,8.28125
K ,1,8.28125
L ,1,8.28125
N ,2,10.625
N ,2,10.625
K ,2,10.625
S ,2,10.625
E ,2,10.625
K ,3,12.3828125
D ,3,12.3828125
K ,3,12.3828125
K ,4,14.1015625
E ,4,14.1015625
K ,6,17.3828125
K ,4,14.1015625
P ,6,17.3828125
T ,5,15.703125
V ,8,21.40625
S ,9,24.0234375
V ,8,21.40625
F ,6,17.3828125
S ,14,36.953125
M ,26,64.1796875
F ,22,56.7578125
R ,22,56.7578125
Y ,15,39.53125
S ,35,74.765625
N ,23,58.75
W ,8,21.40625
L ,7,19.1796875
D ,46,82.5
K ,4,14.1015625
L ,6,17.3828125
Y ,9,24.0234375
M ,8,21.40625
V ,6,17.3828125
V ,8,21.40625
G ,12,31.640625
T ,3,12.3828125
L ,28,67.65625
A ,9,24.0234375
A ,45,81.953125
I ,18,47.1484375
I ,12,31.640625
H ,16,42.03125
G ,54,85.546875
A ,9,24.0234375
G ,8,21.40625
L ,7,19.1796875
P ,38,77.265625
L ,22,56.7578125
M ,12,31.640625
M ,11,29.296875
L ,29,68.90625
V ,30,70.1953125
F ,18,47.1484375
G ,30,70.1953125

E ,14,36.953125
M ,14,36.953125
T ,16,42.03125
D ,21,54.1015625
I ,15,39.53125
F ,14,36.953125
A ,10,26.640625
N ,11,29.296875
A ,10,26.640625
G ,13,34.140625
N ,8,21.40625
L ,8,21.40625
E ,7,19.1796875
D ,6,17.3828125
L ,4,14.1015625
M ,4,14.1015625
S ,4,14.1015625
N ,3,12.3828125
I ,2,10.625
T ,1,8.28125
N ,0,3.4375
R ,0,3.4375
S ,1,8.28125
D ,0,3.4375
I ,0,3.4375
N ,0,3.4375
D ,0,3.4375
T ,0,3.4375
G ,0,3.4375
F ,0,3.4375
F ,0,3.4375
M ,0,3.4375
N ,0,3.4375
L ,0,3.4375
E ,0,3.4375
E ,0,3.4375
D ,0,3.4375
M ,0,3.4375
T ,0,3.4375
R ,0,3.4375
Y ,1,8.28125
A ,1,8.28125
Y ,1,8.28125
Y ,3,12.3828125
Y ,4,14.1015625
S ,18,47.1484375
G ,8,21.40625
I ,35,74.765625
G ,17,44.7265625
A ,21,54.1015625
G ,12,31.640625
V ,14,36.953125
L ,0,3.4375
V ,0,3.4375
A ,0,3.4375
A ,17,44.7265625
Y ,14,36.953125
I ,21,54.1015625
Q ,13,34.140625
V ,14,36.953125
S ,11,29.296875
F ,8,21.40625
W ,11,29.296875
C ,13,34.140625
L ,11,29.296875
A ,26,64.1796875
A ,21,54.1015625
G ,22,56.7578125
R ,43,80.625
Q ,19,49.4140625
I ,21,54.1015625
H ,16,42.03125
K ,31,71.40625
I ,47,82.9296875

R ,78,98.3984375
K ,16,42.03125
Q ,17,44.7265625
F ,34,74.1796875
F ,28,67.65625
H ,30,70.1953125
A ,44,81.25
I ,42,80
M ,68,91.3671875
R ,35,74.765625
Q ,57,86.5625
E ,46,82.5
I ,39,78.203125
G ,27,65.9765625
W ,14,36.953125
F ,32,72.5
D ,76,97.1484375
V ,15,39.53125
H ,16,42.03125
D ,17,44.7265625
V ,16,42.03125
G ,15,39.53125
E ,11,29.296875
L ,36,75.6640625
N ,23,58.75
T ,33,73.5546875
R ,33,73.5546875
L ,43,80.625
T ,32,72.5
D ,25,62.265625
D ,0,3.4375
V ,0,3.4375
S ,0,3.4375
K ,0,3.4375
I ,0,3.4375
N ,0,3.4375
E ,24,60.390625
V ,22,56.7578125
I ,50,84.0234375
G ,27,65.9765625
D ,38,77.265625
K ,74,95.5859375
I ,27,65.9765625
G ,19,49.4140625
M ,10,26.640625
F ,3,12.3828125
F ,26,64.1796875
Q ,19,49.4140625
S ,8,21.40625
M ,17,44.7265625
A ,29,68.90625
T ,20,51.640625
F ,19,49.4140625
F ,32,72.5
T ,21,54.1015625
G ,25,62.265625
F ,19,49.4140625
I ,22,56.7578125
V ,44,81.25
G ,25,62.265625
F ,36,75.6640625
T ,14,36.953125
R ,10,26.640625
G ,15,39.53125
W ,27,65.9765625
K ,38,77.265625
L ,59,87.5
T ,52,85.078125
L ,33,73.5546875
V ,24,60.390625
I ,22,56.7578125
L ,16,42.03125
A ,17,44.7265625
I ,14,36.953125

S ,15,39.53125
P ,17,44.7265625
V ,21,54.1015625
L ,19,49.4140625
G ,11,29.296875
L ,17,44.7265625
S ,14,36.953125
A ,12,31.640625
A ,13,34.140625
V ,14,36.953125
W ,13,34.140625
A ,21,54.1015625
K ,14,36.953125
I ,0,3.4375
L ,3,12.3828125
S ,8,21.40625
S ,5,15.703125
F ,5,15.703125
T ,9,24.0234375
D ,20,51.640625
K ,22,56.7578125
E ,17,44.7265625
L ,13,34.140625
L ,3,12.3828125
A ,19,49.4140625
Y ,16,42.03125
A ,32,72.5
K ,31,71.40625
A ,61,88.046875
G ,26,64.1796875
A ,29,68.90625
V ,39,78.203125
A ,44,81.25
E ,42,80
E ,58,87.03125
V ,23,58.75
L ,18,47.1484375
A ,11,29.296875
A ,12,31.640625
I ,53,85.3515625
R ,62,88.5546875
T ,44,81.25
V ,73,94.6875
I ,12,31.640625
A ,57,86.5625
F ,30,70.1953125
G ,18,47.1484375
G ,14,36.953125
Q ,45,81.953125
K ,29,68.90625
K ,20,51.640625
E ,11,29.296875
L ,15,39.53125
E ,28,67.65625
R ,30,70.1953125
Y ,56,86.171875
N ,23,58.75
K ,27,65.9765625
N ,10,26.640625
L ,48,83.28125
E ,18,47.1484375
E ,21,54.1015625
A ,45,81.953125
K ,13,34.140625
R ,30,70.1953125
I ,10,26.640625
G ,24,60.390625
I ,15,39.53125
K ,25,62.265625
K ,21,54.1015625
A ,20,51.640625
I ,12,31.640625
T ,11,29.296875
A ,13,34.140625

N ,27,65.9765625
I ,16,42.03125
S ,11,29.296875
I ,2,10.625
G ,3,12.3828125
A ,2,10.625
A ,2,10.625
F ,1,8.28125
L ,1,8.28125
L ,19,49.4140625
I ,22,56.7578125
Y ,19,49.4140625
A ,11,29.296875
S ,18,47.1484375
Y ,15,39.53125
A ,32,72.5
L ,32,72.5
A ,25,62.265625
F ,20,51.640625
W ,19,49.4140625
Y ,16,42.03125
G ,59,87.5
T ,22,56.7578125
T ,14,36.953125
L ,30,70.1953125
V ,36,75.6640625
L ,12,31.640625
S ,19,49.4140625
G ,10,26.640625
E ,1,8.28125
Y ,3,12.3828125
S ,22,56.7578125
I ,10,26.640625
G ,37,76.484375
Q ,22,56.7578125
V ,42,80
L ,22,56.7578125
T ,24,60.390625
V ,33,73.5546875
F ,15,39.53125
F ,18,47.1484375
S ,21,54.1015625
V ,38,77.265625
L ,37,76.484375
I ,16,42.03125
G ,28,67.65625
A ,14,36.953125
F ,9,24.0234375
S ,2,10.625
V ,23,58.75
G ,13,34.140625
Q ,10,26.640625
A ,11,29.296875
S ,10,26.640625
P ,32,72.5
S ,12,31.640625
I ,33,73.5546875
E ,24,60.390625
A ,23,58.75
F ,21,54.1015625
A ,21,54.1015625
N ,21,54.1015625
A ,33,73.5546875
R ,19,49.4140625
G ,20,51.640625
A ,58,87.03125
A ,42,80
Y ,11,29.296875
E ,25,62.265625
I ,50,84.0234375
F ,20,51.640625
K ,29,68.90625
I ,22,56.7578125
I ,69,92.0703125

D ,37,76.484375
N ,27,65.9765625
K ,0,3.4375
P ,1,8.28125
S ,1,8.28125
I ,1,8.28125
D ,1,8.28125
S ,1,8.28125
Y ,1,8.28125
S ,2,10.625
K ,1,8.28125
S ,3,12.3828125
G ,6,17.3828125
H ,5,15.703125
K ,9,24.0234375
P ,7,19.1796875
D ,9,24.0234375
N ,10,26.640625
I ,20,51.640625
K ,21,54.1015625
G ,46,82.5
N ,26,64.1796875
L ,63,89.2578125
E ,26,64.1796875
F ,25,62.265625
R ,32,72.5
N ,36,75.6640625
V ,67,90.703125
H ,15,39.53125
F ,54,85.546875
S ,28,67.65625
Y ,81,99.5703125
P ,68,91.3671875
S ,22,56.7578125
R ,47,82.9296875
K ,20,51.640625
E ,14,36.953125
V ,9,24.0234375
K ,9,24.0234375
I ,19,49.4140625
L ,20,51.640625
K ,17,44.7265625
G ,22,56.7578125
L ,24,60.390625
N ,42,80
L ,39,78.203125
K ,21,54.1015625
V ,37,76.484375
Q ,22,56.7578125
S ,24,60.390625
G ,50,84.0234375
Q ,41,79.375
T ,32,72.5
V ,24,60.390625
A ,68,91.3671875
L ,51,84.609375
V ,68,91.3671875
G ,80,99.140625
N ,21,54.1015625
S ,78,98.3984375
G ,78,98.3984375
C ,16,42.03125
G ,73,94.6875
K ,75,96.3671875
S ,73,94.6875
T ,72,93.828125
T ,27,65.9765625
V ,35,74.765625
Q ,26,64.1796875
L ,72,93.828125
M ,55,85.8203125
Q ,26,64.1796875
R ,74,95.5859375
L ,29,68.90625

Y ,70,92.5390625
D ,47,82.9296875
P ,20,51.640625
T ,16,42.03125
E ,22,56.7578125
G ,60,87.7734375
M ,4,14.1015625
V ,7,19.1796875
S ,3,12.3828125
V ,7,19.1796875
D ,6,17.3828125
G ,45,81.953125
Q ,12,31.640625
D ,31,71.40625
I ,51,84.609375
R ,39,78.203125
T ,28,67.65625
I ,41,79.375
N ,44,81.25
V ,40,78.8671875
R ,30,70.1953125
F ,9,24.0234375
L ,40,78.8671875
R ,75,96.3671875
E ,28,67.65625
I ,26,64.1796875
I ,59,87.5
G ,44,81.25
V ,36,75.6640625
V ,74,95.5859375
S ,28,67.65625
Q ,75,96.3671875
E ,56,86.171875
P ,69,92.0703125
V ,21,54.1015625
L ,75,96.3671875
F ,62,88.5546875
A ,26,64.1796875
T ,17,44.7265625
T ,62,88.5546875
I ,70,92.5390625
A ,11,29.296875
E ,46,82.5
N ,78,98.3984375
I ,68,91.3671875
R ,17,44.7265625
Y ,14,36.953125
G ,73,94.6875
R ,11,29.296875
E ,8,21.40625
N ,11,29.296875
V ,14,36.953125
T ,25,62.265625
M ,8,21.40625
D ,21,54.1015625
E ,16,42.03125
I ,42,80
E ,10,26.640625
K ,26,64.1796875
A ,58,87.03125
V ,18,47.1484375
K ,34,74.1796875
E ,14,36.953125
A ,60,87.7734375
N ,30,70.1953125
A ,45,81.953125
Y ,17,44.7265625
D ,27,65.9765625
F ,66,90.2734375
I ,67,90.703125
M ,13,34.140625
K ,23,58.75
L ,5,15.703125
P ,5,15.703125

H ,0,3.4375
K ,1,8.28125
F ,2,10.625
D ,4,14.1015625
T ,4,14.1015625
L ,3,12.3828125
V ,5,15.703125
G ,8,21.40625
E ,16,42.03125
R ,14,36.953125
G ,41,79.375
A ,14,36.953125
Q ,18,47.1484375
L ,73,94.6875
S ,78,98.3984375
G ,63,89.2578125
G ,76,97.1484375
Q ,77,97.8515625
K ,66,90.2734375
Q ,72,93.828125
R ,74,95.5859375
I ,66,90.2734375
A ,51,84.609375
I ,67,90.703125
A ,76,97.1484375
R ,76,97.1484375
A ,66,90.2734375
L ,52,85.078125
V ,42,80
R ,39,78.203125
N ,39,78.203125
P ,69,92.0703125
K ,31,71.40625
I ,63,89.2578125
L ,74,95.5859375
L ,67,90.703125
L ,71,93.125
D ,77,97.8515625
E ,73,94.6875
A ,62,88.5546875
T ,79,98.7890625
S ,76,97.1484375
A ,75,96.3671875
L ,78,98.3984375
D ,82,99.8828125
T ,27,65.9765625
E ,33,73.5546875
S ,63,89.2578125
E ,77,97.8515625
A ,25,62.265625
V ,23,58.75
V ,71,93.125
Q ,64,89.7265625
V ,27,65.9765625
A ,65,89.921875
L ,71,93.125
D ,44,81.25
K ,30,70.1953125
A ,15,39.53125
R ,12,31.640625
K ,13,34.140625
G ,0,3.4375
R ,1,8.28125
T ,76,97.1484375
T ,55,85.8203125
I ,61,88.046875
V ,32,72.5
I ,63,89.2578125
A ,77,97.8515625
H ,76,97.1484375
R ,71,93.125
L ,77,97.8515625
S ,68,91.3671875
T ,75,96.3671875

V ,58,87.03125
R ,38,77.265625
N ,38,77.265625
A ,50,84.0234375
D ,53,85.3515625
V ,13,34.140625
I ,79,98.7890625
A ,18,47.1484375
G ,31,71.40625
F ,39,78.203125
D ,29,68.90625
D ,9,24.0234375
G ,16,42.03125
V ,21,54.1015625
I ,50,84.0234375
V ,32,72.5
E ,74,95.5859375
K ,13,34.140625
G ,40,78.8671875
N ,32,72.5
H ,52,85.078125
D ,28,67.65625
E ,37,76.484375
L ,81,99.5703125
M ,38,77.265625
K ,26,64.1796875
E ,13,34.140625
K ,16,42.03125
G ,16,42.03125
I ,3,12.3828125
Y ,3,12.3828125
F ,6,17.3828125
K ,6,17.3828125
L ,6,17.3828125
V ,7,19.1796875
T ,7,19.1796875
M ,7,19.1796875
Q ,12,31.640625
T ,7,19.1796875
A ,5,15.703125
G ,3,12.3828125
N ,4,14.1015625
E ,2,10.625
V ,2,10.625
E ,2,10.625
L ,1,8.28125
E ,1,8.28125
N ,1,8.28125
A ,0,3.4375
A ,0,3.4375
D ,0,3.4375
E ,0,3.4375
S ,0,3.4375
K ,0,3.4375
S ,0,3.4375
E ,0,3.4375
I ,0,3.4375
D ,0,3.4375
A ,0,3.4375
L ,0,3.4375
E ,0,3.4375
M ,0,3.4375
S ,0,3.4375
S ,0,3.4375
N ,0,3.4375
D ,0,3.4375
S ,0,3.4375
R ,6,17.3828125
S ,6,17.3828125
S ,6,17.3828125
L ,9,24.0234375
I ,8,21.40625
R ,11,29.296875
K ,10,26.640625

R ,10,26.640625
S ,10,26.640625
T ,13,34.140625
R ,11,29.296875
R ,11,29.296875
S ,10,26.640625
V ,9,24.0234375
R ,11,29.296875
G ,15,39.53125
S ,12,31.640625
Q ,11,29.296875
A ,13,34.140625
Q ,12,31.640625
D ,13,34.140625
R ,10,26.640625
K ,10,26.640625
L ,1,8.28125
S ,1,8.28125
T ,2,10.625
K ,2,10.625
E ,4,14.1015625
A ,4,14.1015625
L ,4,14.1015625
D ,5,15.703125
E ,7,19.1796875
S ,8,21.40625
I ,7,19.1796875
P ,7,19.1796875
P ,5,15.703125
V ,9,24.0234375
S ,12,31.640625
F ,15,39.53125
W ,6,17.3828125
R ,13,34.140625
I ,26,64.1796875
M ,14,36.953125
K ,17,44.7265625
L ,10,26.640625
N ,20,51.640625
L ,18,47.1484375
T ,19,49.4140625
E ,19,49.4140625
W ,4,14.1015625
P ,7,19.1796875
Y ,8,21.40625
F ,15,39.53125
V ,18,47.1484375
V ,21,54.1015625
G ,24,60.390625
V ,11,29.296875
F ,20,51.640625
C ,10,26.640625
A ,36,75.6640625
I ,15,39.53125
I ,16,42.03125
N ,13,34.140625
G ,65,89.921875
G ,13,34.140625
L ,16,42.03125
Q ,8,21.40625
P ,38,77.265625
A ,15,39.53125
F ,8,21.40625
A ,35,74.765625
I ,12,31.640625
I ,17,44.7265625
F ,16,42.03125
S ,17,44.7265625
K ,19,49.4140625
I ,19,49.4140625
I ,19,49.4140625
G ,17,44.7265625
V ,15,39.53125
F ,17,44.7265625

T ,11,29.296875
R ,10,26.640625
I ,8,21.40625
D ,13,34.140625
D ,0,3.4375
P ,0,3.4375
E ,0,3.4375
T ,1,8.28125
K ,10,26.640625
R ,13,34.140625
Q ,21,54.1015625
N ,20,51.640625
S ,15,39.53125
N ,15,39.53125
L ,9,24.0234375
F ,7,19.1796875
S ,24,60.390625
L ,13,34.140625
L ,16,42.03125
F ,20,51.640625
L ,16,42.03125
A ,12,31.640625
L ,29,68.90625
G ,25,62.265625
I ,17,44.7265625
I ,13,34.140625
S ,19,49.4140625
F ,7,19.1796875
I ,22,56.7578125
T ,15,39.53125
F ,8,21.40625
F ,10,26.640625
L ,14,36.953125
Q ,25,62.265625
G ,9,24.0234375
F ,7,19.1796875
T ,8,21.40625
F ,15,39.53125
G ,18,47.1484375
K ,9,24.0234375
A ,19,49.4140625
G ,27,65.9765625
E ,29,68.90625
I ,6,17.3828125
L ,25,62.265625
T ,21,54.1015625
K ,10,26.640625
R ,21,54.1015625
L ,23,58.75
R ,70,92.5390625
Y ,12,31.640625
M ,13,34.140625
V ,13,34.140625
F ,34,74.1796875
R ,27,65.9765625
S ,32,72.5
M ,36,75.6640625
L ,49,83.5546875
R ,24,60.390625
Q ,25,62.265625
D ,31,71.40625
V ,25,62.265625
S ,24,60.390625
W ,17,44.7265625
F ,36,75.6640625
D ,59,87.5
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P ,11,29.296875
K ,28,67.65625
N ,35,74.765625
T ,42,80
T ,20,51.640625
G ,42,80
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L ,55,85.8203125
T ,20,51.640625
T ,41,79.375
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L ,73,94.6875
A ,49,83.5546875
N ,28,67.65625
D ,35,74.765625
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A ,27,65.9765625
Q ,5,15.703125
V ,49,83.5546875
K ,30,70.1953125
G ,19,49.4140625
A ,19,49.4140625
I ,15,39.53125
G ,29,68.90625
S ,14,36.953125
R ,20,51.640625
L ,27,65.9765625
A ,18,47.1484375
V ,12,31.640625
I ,19,49.4140625
T ,38,77.265625
Q ,26,64.1796875
N ,9,24.0234375
I ,14,36.953125
A ,10,26.640625
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L ,9,24.0234375
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T ,27,65.9765625
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I ,33,73.5546875
I ,16,42.03125
S ,14,36.953125
F ,9,24.0234375
I ,10,26.640625
Y ,10,26.640625
G ,14,36.953125
W ,7,19.1796875
Q ,13,34.140625
L ,23,58.75
T ,13,34.140625
L ,11,29.296875
L ,10,26.640625
L ,8,21.40625
L ,20,51.640625
A ,9,24.0234375
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V ,4,14.1015625
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I ,0,3.4375
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A ,0,3.4375
I ,0,3.4375
A ,0,3.4375
G ,0,3.4375
V ,0,3.4375
V ,0,3.4375
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M ,10,26.640625
L ,11,29.296875
S ,22,56.7578125
G ,15,39.53125
Q ,7,19.1796875
A ,17,44.7265625
L ,15,39.53125
K ,21,54.1015625
D ,13,34.140625
K ,21,54.1015625

K ,21,54.1015625
E ,11,29.296875
L ,7,19.1796875
E ,12,31.640625
G ,20,51.640625
A ,25,62.265625
G ,15,39.53125
K ,25,62.265625
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A ,19,49.4140625
T ,13,34.140625
E ,34,74.1796875
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E ,22,56.7578125
N ,32,72.5
F ,30,70.1953125
R ,36,75.6640625
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V ,47,82.9296875
V ,19,49.4140625
S ,36,75.6640625
L ,24,60.390625
T ,17,44.7265625
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E ,45,81.953125
Q ,27,65.9765625
K ,12,31.640625
F ,17,44.7265625
E ,10,26.640625
H ,26,64.1796875
M ,12,31.640625
Y ,27,65.9765625
A ,17,44.7265625
Q ,25,62.265625
S ,16,42.03125
L ,19,49.4140625
Q ,23,58.75
V ,16,42.03125
P ,18,47.1484375
Y ,9,24.0234375
R ,28,67.65625
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S ,17,44.7265625
L ,11,29.296875
R ,17,44.7265625
K ,24,60.390625
A ,23,58.75
H ,5,15.703125
I ,8,21.40625
F ,8,21.40625
G ,17,44.7265625
I ,19,49.4140625
T ,8,21.40625
F ,16,42.03125
S ,24,60.390625
F ,18,47.1484375
T ,44,81.25
Q ,22,56.7578125
A ,9,24.0234375
M ,22,56.7578125
M ,12,31.640625
Y ,16,42.03125
F ,8,21.40625
S ,14,36.953125
Y ,9,24.0234375
A ,37,76.484375
G ,18,47.1484375
C ,15,39.53125
F ,33,73.5546875
R ,6,17.3828125
F ,14,36.953125
G ,10,26.640625
A ,18,47.1484375

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V ,41,79.375
A ,18,47.1484375
H ,18,47.1484375
K ,16,42.03125
L ,6,17.3828125
M ,9,24.0234375
S ,6,17.3828125
F ,6,17.3828125
E ,13,34.140625
D ,6,17.3828125
V ,7,19.1796875
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V ,0,3.4375
F ,0,3.4375
S ,0,3.4375
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V ,45,81.953125
V ,21,54.1015625
F ,14,36.953125
G ,23,58.75
A ,30,70.1953125
M ,10,26.640625
A ,21,54.1015625
V ,19,49.4140625
G ,21,54.1015625
Q ,24,60.390625
V ,15,39.53125
S ,8,21.40625
S ,28,67.65625
F ,15,39.53125
A ,17,44.7265625
P ,28,67.65625
D ,41,79.375
Y ,12,31.640625
A ,23,58.75
K ,43,80.625
A ,41,79.375
K ,21,54.1015625
I ,13,34.140625
S ,52,85.078125
A ,29,68.90625
A ,17,44.7265625
H ,17,44.7265625
I ,39,78.203125
I ,18,47.1484375
M ,20,51.640625
I ,39,78.203125
I ,27,65.9765625
E ,31,71.40625
K ,23,58.75
T ,16,42.03125
P ,17,44.7265625
L ,5,15.703125
I ,4,14.1015625
D ,3,12.3828125
S ,2,10.625
Y ,2,10.625
S ,3,12.3828125
T ,8,21.40625
E ,6,17.3828125
G ,5,15.703125
L ,3,12.3828125
M ,2,10.625
P ,0,3.4375
N ,6,17.3828125
T ,9,24.0234375
L ,8,21.40625
E ,19,49.4140625
G ,23,58.75
N ,24,60.390625
V ,51,84.609375

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F ,23,58.75
G ,30,70.1953125
E ,30,70.1953125
V ,57,86.5625
V ,14,36.953125
F ,68,91.3671875
N ,25,62.265625
Y ,76,97.1484375
P ,57,86.5625
T ,34,74.1796875
R ,63,89.2578125
P ,26,64.1796875
D ,17,44.7265625
I ,10,26.640625
P ,9,24.0234375
V ,49,83.5546875
L ,38,77.265625
Q ,36,75.6640625
G ,22,56.7578125
L ,27,65.9765625
S ,28,67.65625
L ,31,71.40625
E ,24,60.390625
V ,40,78.8671875
K ,23,58.75
K ,21,54.1015625
G ,62,88.5546875
Q ,43,80.625
T ,16,42.03125
L ,36,75.6640625
A ,62,88.5546875
L ,45,81.953125
V ,58,87.03125
G ,71,93.125
S ,20,51.640625
S ,70,92.5390625
G ,69,92.0703125
C ,13,34.140625
G ,75,96.3671875
K ,75,96.3671875
S ,73,94.6875
T ,68,91.3671875
V ,22,56.7578125
V ,47,82.9296875
Q ,31,71.40625
L ,71,93.125
L ,56,86.171875
E ,29,68.90625
R ,72,93.828125
F ,50,84.0234375
Y ,73,94.6875
D ,44,81.25
P ,21,54.1015625
L ,13,34.140625
A ,22,56.7578125
G ,27,65.9765625
K ,21,54.1015625
V ,52,85.078125
L ,11,29.296875
L ,28,67.65625
D ,28,67.65625
G ,9,24.0234375
K ,4,14.1015625
E ,0,3.4375
I ,0,3.4375
K ,0,3.4375
R ,23,58.75
L ,22,56.7578125
N ,32,72.5
V ,29,68.90625
Q ,23,58.75
W ,5,15.703125
L ,24,60.390625

R ,80,99.140625
A ,32,72.5
H ,25,62.265625
L ,43,80.625
G ,25,62.265625
I ,51,84.609375
V ,80,99.140625
S ,27,65.9765625
Q ,80,99.140625
E ,74,95.5859375
P ,61,88.046875
I ,19,49.4140625
L ,80,99.140625
F ,56,86.171875
D ,26,64.1796875
C ,9,24.0234375
S ,63,89.2578125
I ,67,90.703125
A ,21,54.1015625
E ,25,62.265625
N ,79,98.7890625
I ,72,93.828125
A ,16,42.03125
Y ,18,47.1484375
G ,50,84.0234375
D ,4,14.1015625
N ,5,15.703125
S ,5,15.703125
R ,3,12.3828125
V ,2,10.625
V ,7,19.1796875
S ,14,36.953125
Q ,6,17.3828125
E ,26,64.1796875
E ,36,75.6640625
I ,56,86.171875
V ,11,29.296875
R ,30,70.1953125
A ,51,84.609375
A ,21,54.1015625
K ,45,81.953125
E ,13,34.140625
A ,72,93.828125
N ,55,85.8203125
I ,19,49.4140625
H ,20,51.640625
A ,30,70.1953125
F ,43,80.625
I ,63,89.2578125
E ,17,44.7265625
S ,27,65.9765625
L ,26,64.1796875
P ,26,64.1796875
N ,1,8.28125
K ,1,8.28125
Y ,14,36.953125
S ,20,51.640625
T ,26,64.1796875
K ,9,24.0234375
V ,34,74.1796875
G ,70,92.5390625
D ,19,49.4140625
K ,31,71.40625
G ,30,70.1953125
T ,21,54.1015625
Q ,31,71.40625
L ,66,90.2734375
S ,74,95.5859375
G ,66,90.2734375
G ,76,97.1484375
Q ,71,93.125
K ,68,91.3671875
Q ,76,97.1484375
R ,75,96.3671875

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A ,62,88.5546875
I ,72,93.828125
A ,72,93.828125
R ,74,95.5859375
A ,69,92.0703125
L ,58,87.03125
V ,50,84.0234375
R ,59,87.5
Q ,20,51.640625
P ,25,62.265625
H ,37,76.484375
I ,61,88.046875
L ,73,94.6875
L ,73,94.6875
L ,71,93.125
D ,81,99.5703125
E ,79,98.7890625
A ,75,96.3671875
T ,81,99.5703125
S ,81,99.5703125
A ,77,97.8515625
L ,82,99.8828125
D ,81,99.5703125
T ,38,77.265625
E ,38,77.265625
S ,73,94.6875
E ,83,100
K ,0,3.4375
V ,25,62.265625
V ,70,92.5390625
Q ,65,89.921875
E ,28,67.65625
A ,63,89.2578125
L ,61,88.046875
D ,38,77.265625
K ,30,70.1953125
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R ,14,36.953125
E ,18,47.1484375
G ,4,14.1015625
R ,25,62.265625
T ,72,93.828125
C ,17,44.7265625
I ,54,85.546875
V ,23,58.75
I ,58,87.03125
A ,77,97.8515625
H ,74,95.5859375
R ,73,94.6875
L ,68,91.3671875
S ,57,86.5625
T ,71,93.125
I ,64,89.7265625
Q ,39,78.203125
N ,32,72.5
A ,25,62.265625
D ,0,3.4375
L ,12,31.640625
I ,77,97.8515625
V ,10,26.640625
V ,51,84.609375
F ,35,74.765625
Q ,24,60.390625
N ,26,64.1796875
G ,39,78.203125
R ,15,39.53125
V ,48,83.28125
K ,22,56.7578125
E ,68,91.3671875
H ,21,54.1015625
G ,68,91.3671875
T ,43,80.625
H ,40,78.8671875

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Q ,40,78.8671875
L ,69,92.0703125
L ,36,75.6640625
A ,27,65.9765625
Q ,10,26.640625
K ,18,47.1484375
G ,5,15.703125
I ,1,8.28125
Y ,13,34.140625
F ,5,15.703125
S ,15,39.53125
M ,17,44.7265625
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S ,12,31.640625
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A ,0,3.4375
G ,0,3.4375
T ,0,3.4375
K ,0,3.4375
R ,0,3.4375
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