Position	Residue	Register (Dimer, Trimer)	Probability	Dimer Prob	Trimer Prob	Probability by Heptad (a,b,c,d,e,f,g)
1 2	M S	e(e,e) c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
3 4	Q S	d(d,d) e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
5	S	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
6 7	R L	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
8	S A	b(b,b) c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
10	L	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
11 12	P I	b(f,b) c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
13 14	F Q	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
15	A	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
16 17	S L	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
18 19	S A	b(b,b) c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
20	S	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
21 22	Q S	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
23 24	P R	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
25	Y	b(b,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
26 27	I F	a(c,a) d(d,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
28 29	S	a(e,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
30	s Q	b(b,b) c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
31 32	N G	d(d,d) e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
33	T	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
34 35	R I	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q
36 37	V F	b(b,b) c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
38	I	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
39 40	Q D	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q
41 42	N I	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
43	I	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
44 45	R W	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
46 47	Y N	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 d:0.0 d:0.0 e:0.0 d:0.0 d:0.0 e:0.0 d:0.0
48	V	g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
49 50	L T	g(a,g) a(d,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q
51 52	D S	b(e,b) c(f,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
53	L	d(g,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
54 55	Y H	e(a,e) f(b,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g
56 57	S	g(c,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
58	L N	a(d,a) b(e,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q
59 60	F S	c(f,c) d(g,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q
61	R H	e(a,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
62 63	L	f(b,f) g(c,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q
64 65	V L	a(d,a) a(e,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q
66 67	D D	b(f,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
68	T	c(g,c) d(a,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
69 70	F H	e(b,e) f(c,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q
71 72	V I	g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
73	S	a(a,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
74 75	S T	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q
76	s	e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
78	D	g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 c
79 80	L L	a(a,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q
81	c	c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
83	F	a(a,a) e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q
84 85	N D	f(f,f) g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q:0.0
86	N	a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
87 88	E I	b(b,b) c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q
89	F	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
91	M	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
92 93	E V	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
94	P	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
96	G G	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
97 98	Y S	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
99	N	a(a'a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
100	V E	a(a,a) b(b,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
102	D V	a(c,a) h(d,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
104	s	c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
105 106	I Q	d(d,d) e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q
107	D	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
108	A F	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 d:0.0
110	Q T	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
112	F	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0
113 114	H Y	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 d:0.0
115	STSGDLLCLFNDNEIFVMEVPWGYSNVEDDVSIQDAFQIFHYSIDEEEV	g(g,g)	0.0	0.0	0.0	ai0.0 bi0.0 ci0.0 di0.0 ei0.0 fi0.0 di0.0 ei0.0
116 117	I D	a(a,a) b(b,b)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q
118	E	c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 c
	E.	u(u,u)	v. v	v. v	0.0	""" " """ " """ " """ " """ " """ " """ "

122	G	g(b,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
123 124	P K	c(c,a) d(d,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
125	S	e(e,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
126 127	S	f(f,d) g(g,e)	0.0 0.0	0.0	0.0 0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
128 129	K K	a(a,f) b(b,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
130 131	V L	c(c,d) d(d,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
132	F	f(e,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
133 134	H P	g(f,g) a(d,a)	0.0 0.0	0.0	0.0 0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
135 136	K S	b(e,b) c(f,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
137 138	Y R	d(g,d) e(a,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
139	D	f(b,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
140 141	S C	g(c,g) a(d,a)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
142 143	I V	b(e,b) c(f,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
144 145	V L	e(g,e) f(a,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
146	K	g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
147 148	E D	a(a,a) b(b,b)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
149 150	D T	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
151 152	I T	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
153	M	g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
154 155	F D	a(a,a) b(b,b)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
156 157	I L	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
158 159	N S	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
160	Q	g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
161 162	E K	a(a,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
163 164	P I	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
165 166	V L	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
167	N	g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
168 169	K P	a(a,a) g(b,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
170 171	N N	f(f,f) g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
172 173	S F	a(a,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
174	G	c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
175 176	L D	d(a,d) e(b,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
177 178	A R	f(c,f) g(d,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
179	V	e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
180 181	N D	f(f,f) g(g,g)	0.0 0.0	0.0	0.0 0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
182 183	I T	a(a,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
184 185	D L	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
186	E	e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
187 188	F S	f(f,f) g(g,g)	0.0 0.0	0.0	0.0 0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
189 190	K D	a(a,a) b(b,b)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
191 192	G L	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
193 194	T L	e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
195	Y	f(f,f) g(g,g)	0.0	0.0	0.0 0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
196 197	C L	a(a,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
198 199	N T	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
200	T	e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
202	G	g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
203	D	a(a,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
205 206	I F	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q:0.0
207	A F	e(e,e) f(f.f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
209	Y	d(g,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
211	F	c(f,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
212 213	L P	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
214 215	s V	b(b,b) c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
216	L	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
218	L	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
219	N E	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
221 222	K D	b(b,b) c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q:0.0
223	L N	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
225	L T	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
227	L	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
228 229	N K	b(b,b) c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q:0.0
230 231	S T.	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
232	v.	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
233 234	M Y	g(g,g) a(a,a)	0.0	0.0	0.0	a:v.v b:v.v c:v.v d:v.v e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
235 236	E S	b(b,b) c(e,c)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q:0.0
237 238	L	d(f,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
239	S	f(a,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
240 241	T T	g(b,g) a(c,a)	0.0	0.0	0.0	a:v.v b:v.v c:v.v d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
242 243	D V	b(d,b) e(e,c)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q:0.0
244 245	I V	((,c)) ((d,d)) ((e,e)) ((f,f)) ((g,g)) ((a,a)) ((b,b)) ((c,c)) ((d,d)) ((c,c)) ((f,f)) ((g,g)) ((a,a)) ((b,b)) ((c,c)) ((d,d)) ((e,e)) ((f,f)) ((e,e)) ((d,d)) ((e,e)) ((f,f)) ((f,g)) ((f,d))	0.0	0.0	0.0	ai0.0 bi0.0 ci0.0 di0.0 ei0.0 fi0.0 gi0.0 ai0.0 bi0.0 ci0.0 di0.0 ei0.0
	•	3(31~)	•••		•••	givin a.o.o a.o.o givin givin

246	K	a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
247 248	R N	b(b,b) c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
249	v	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
250 251	I K	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
252	Q Q	g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
253	L	a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
254 255	Q F	b(b,b) c(c,c)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
256	V	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
257	S	e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
258 259	K L	f(f,f) g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
260	H	a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
261	E	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
262 263	N W	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
264	N	e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
265 266	S R	f(f,f)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
267	F	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
268	G	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
269 270	K V	c(c,c) d(d,d)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
271	D	e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
272	I	f(f,f)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
273 274	Q K	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
275	E	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
276 277	Y R	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
278	L	e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
279	A	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
280 281	K V	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
282	o Q	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
283	G	c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
284 285	P F	d(d,d) e(e,e)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
286	T	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
287 288	I N	g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
289	P P	a(a,a) b(b,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
290	F	d(c,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
291 292	P G	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
293	E	g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
294	L	a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
295 296	Y D	a(b,a) b(c,b)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
297	Y	c(d,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
298	T	f(e,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
299 300	A T	g(f,g) a(g,a)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
301	N	b(a,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
302 303	I A	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
304	T	e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
305	I	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
306 307	L I	g(g,g) a(a,a)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
308	D	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
309	N	c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
310 311	G Q	d(d,d) e(e,e)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
312	N	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
313 314	E	g(g,g) a(a,a)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
315	v	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
316	С	c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
317 318	V S	d(d,d) e(e,e)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
319	F	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
320	D	g(g,g)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
321 322	D G	a(a,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
323	S	c(f,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
324 325	L I	g(g,g) a(a,a)	0.0 0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
326	L	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
327 328	L F	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
329	K	e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
330	D	e(e,e) f(f,f) g(g,g) a(a,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
331 332	E E	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
333	M	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
334 335	F K D L E M S M S W D V D N Y V	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
336	S	e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
337 338	W	f(f,f) f(f,f) g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
338	v.	9(9,9) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q:0.0
340	D	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
341 342	N Y	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
343	v	e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
344 345	Y	f(f,f) g(g,g) a(a,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
346	N	a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
347	S	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
348 349	Y N S L V L E R V K L	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
350	Ĺ	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
351 352	I	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
353	R	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
354	v	a(a,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
355 356	K T.	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
357			0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
358 359	R	f(f,f) g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
359 360	Ī	9(9,9) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q:0.0
361	E I K S	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
362 363	S L	c(c,c) d(d,d)	0.0	0.0	0.0	a:v.v b:v.v c:v.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
364	ī	e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
365	I T	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
366 367	L P	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
368	P E	b(b,b)	0.0	0.0	0.0	a10.0 b10.0 c10.0 d10.0 e10.0 e10.0 e10.0 g10.0 g10.0 <td< td=""></td<>
369	Q	c(c,c)	0.0	0.0	0.0	a:U.U b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0

370 371	L G	d(d,d) e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
372	K	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
373 374	L Y	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
375	V	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
376 377	I S	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
378 379	D	e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q:0.0
380	N I	f(f,f) g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
381 382	I 0	a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
383	Õ	b(b,b) c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
384 385	V N	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
386	F	e(g,e) c(a,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
387 388	M S	d(b,d) c(c,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
389	W	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
390 391	A S	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
392	T	g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
393 394	L S	a(a,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
395 396	K C	c(c,c) d(d,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
397	I	e(e,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
398 399	N E	f(f,b) g(g,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
400	S	a(a,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
401 402	D T.	b(b,e) c(a,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
403	N	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
404 405	P L	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
406	A	d(e,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
407 408	G L	a(f,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
409	K	c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
410 411	F E	d(d,d) e(e,e)	0.0	0.0	0.0 0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
412	S	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
413 414	K L	g(g,g) a(a,a)	0.0	0.0	0.0 0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
415 416	E D	b(b,b) c(c,c)	0.0	0.0	0.0 0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
417	I	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
418 419	A T	e(e,e) f(f,f)	0.0	0.0	0.0 0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
420	I	d(g,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
421 422	E R	e(a,e) f(b,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
423	I	c(c,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
424 425	P N	d(d,d) e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
426	L	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
427 428	A Y	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
429 430	I N	b(b,b) c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
431	W	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
432 433	N D	c(e,c) d(f,d)	0.0	0.0	0.0 0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
434	Q	e(g,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
435 436	S N	f(f,f) g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q:0.0
437	L	a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
438 439	A L	b(b,b) c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
440	М	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
441 442	s N	e(e,e) f(f,f)	0.0	0.0	0.0 0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
443 444	K T	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
445	L	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
446 447	T F	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
448	Q	e(e,e)	0.0	0.0	0.0	
449 450	N I	f(f,f) g(g,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
451	s s	a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
452 453	D	b(b,b) c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
454 455	M	c(c,c) d(d,d) e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
456	P	f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
457 458	Q S	f(1,1) g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
459 460	S M K P Q S T A E T S I S T	a(a,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
461	A	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
462 463	E T	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
464	S	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
465 466	I S	a(a,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
467	T	c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
467 468 469 470 471 472 473 474 475 476 477 478 479 480	E K	d(d,d) e(e,e)	0.0	0.0	0.0	a:v.v p:v.v c:v.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q:0.0
470	S	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
471	T	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
473 474	V G	b(b,b) c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
475	D	d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
476 477	G F	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
478	ĸ	g(d'd)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
479 480	M S	a(a,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
481	F	c(c,c)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
482 483	T Q P	d(d,d) e(e,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
484	P	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
485 486	I N	a(a,a) b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
487 488	E	g(c,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
489	I L	a(d,a) b(e,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
490 491	I L	c(f,c) g(g,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
492	N	a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
493	D	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 g:0.0 <td< td=""></td<>

494	N	2/2 2)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
495	F	c(c,c) d(d,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
496 497	Q K	e(e,e) f(f,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
498 499	A C	g(g,g) a(a,a)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
500	I	b(b,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
501 502	S P	c(c,c) c(d,c)	0.0	0.0	0.0 0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
503 504	C E	d(c,d) e(f,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
505	R	f(g,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
506 507	I I	g(a,g) a(b,a)	0.0 0.0	0.0	0.0 0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
508 509	P S	c(a,b) b(b,f)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
510	A	c(c,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
511 512	D R	d(d,a) b(e,b)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
513 514	Q I	c(f,c) d(g,d)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
515	P	e(a,e)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q:0.0
516 517	L K	b(b,f) c(c,g)	0.0	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
518 519	N E	d(d,a)	0.0 0.001	0.0	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
520	A	e(e,b) f(f,c)	0.001	0.001	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.001 g:0.0
521 522	S E	g(g,d) a(a,e)	0.001 0.001	0.001	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.001 a:0.001 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
523 524	N Q	b(b,f)	0.001 0.001	0.001	0.0	a:0.0 b:0.001 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.001 d:0.0 e:0.0 f:0.0 g:0.0
525	L	c(c,g) d(d,a)	0.001	0.001	0.0	a:0.0 b:0.0 c:0.0 d:0.001 e:0.0 f:0.0 g:0.0
526 527	E	e(e,b) f(f,c)	0.001 0.001	0.001	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.001 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.001 g:0.0
528	F T	g(g,d)	0.001	0.001	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.001
529 530	D	a(a,e) b(b,f)	0.001 0.002	0.002	0.0	a:0.001 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.001 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
531 532	I S	c(c,g) d(d,a)	0.002 0.002	0.002	0.0	a:0.0 b:0.0 c:0.001 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.002 e:0.0 f:0.0 g:0.0
533	K	e(e,b)	0.003	0.003	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.002 f:0.0 g:0.0
534 535	E F	f(f,c) g(g,d)	0.003 0.003	0.003	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.003 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.003
536 537	L Q	a(a,e) b(b,f)	0.009 0.012	0.003 0.009 0.012 0.013 0.013	0.0	a:0.009 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.012 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
538	R	c(c,g)	0.013	0.013	0.0	a:0.0 b:0.0 c:0.013 d:0.0 e:0.0 f:0.0 g:0.0
539 540	I V	d(d,a) e(e,b)	0.013 0.014	0.013	0.0	a:0.0 b:0.0 c:0.0 d:0.013 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.014 f:0.0 g:0.0
541 542	K a	f(f,c) g(g,d)	0.017 0.017	0.016	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.016 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.017
543	A Q	a(a,e)	0.018	0.018	0.0	a:0.018 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
544 545	T L	b(b,b) c(c,c)	0.02 0.022	0.02	0.0	a:0.0 b:0.02 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.022 d:0.0 e:0.0 f:0.0 g:0.0
546 547	G V	d(d,d) e(e,e)	0.026 0.085	0.026	0.0	a:0.0 b:0.0 c:0.0 d:0.026 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.085 f:0.0 g:0.0
548	S	f(f,f)	0.231	0.231	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.231 g:0.0
549 550	I H	g(g,g) a(a,a)	0.318 0.49	0.318	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.318 a:0.49 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
551 552	N R	b(b,b)	0.645 0.743	0 645	0 0	a:0.0 b:0.645 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.743 d:0.0 e:0.0 f:0.0 g:0.0
553	I	c(c,c) d(d,d)	0.798	0.743	0.0	a:0.0 b:0.0 c:0.0 d:0.798 e:0.0 f:0.0 g:0.0
554 555	H E	e(e,e) f(f,f)	0.855 0.897	0.743 0.798 0.855 0.897	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.855 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.897 g:0.0
556 557	Q	g(g,g)	0.915 0.92	0.914 0.92	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.914 a:0.92 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
558	Q F	a(a,a) b(b,b)	0.929	0.929	0.0	a:0.0 b:0.929 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
559 560	E L	c(c,c) d(d,d)	0.975 0.992	0.975 0.991	0.0	a:0.0 b:0.0 c:0.975 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.992 e:0.0 f:0.0 g:0.0
561	T	e(e,e)	0.995	0.994	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.995 f:0.0 g:0.0
562 563	R Q	f(f,f) g(g,g)	0.997 0.997	0.997	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.997 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.997
564 565	L Q	a(a,a) b(b,b)	0.998 0.998	0.997 0.997	0.0	a:0.997 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.998 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
566 567	S T	c(c,c)	0.998 0.998	0.997 0.997	0.0	a:0.0 b:0.0 c:0.998 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.998 e:0.0 f:0.0 g:0.0
568	C	d(d,d) e(e,e)	0.998	0.997	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.998 f:0.0 g:0.0
569 570	K	f(f,f) g(g,g)	0.998 0.998	0.997 0.998	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.998 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.998
571	I	a(a,a)	0.998 0.998	0 008	0.0	a-0 998 b-0 0 c-0 0 d-0 0 e-0 0 f-0 0 g-0 0
572 573	S K	b(b,b) c(c,c)	0.998	0.998	0.0	a:0.0 b:0.998 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.998 d:0.0 e:0.0 f:0.0 g:0.0
574 575	D D	d(d,d) e(e,e)	0.998 0.998	0.998	0.0	a:0.0 b:0.0 c:0.0 d:0.998 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.998 f:0.0 g:0.0
576 577	D	f(f,f)	0.998 0.999	0.998	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.998 g:0.0
578	R	a(a,a)	0.999	0.999	0.0	a:0.999 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
579 580	R K	b(b,b) c(c,c)	0.999 0.999	0.999	0.0	a:0.0 b:0.999 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.999 d:0.0 e:0.0 f:0.0 q:0.0
581 582	D L R R K F E A Q N K K W D D A Q L	d(d,d) e(e,e) f(f,f) g(g,g) a(a,a) b(b,b) c(c,c) d(d,d) e(e,e) f(f,f) g(g,g) a(a,a) b(b,b) c(c,c)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.999 e:0.0 f:0.0 g:0.0
583	A	f(f,f)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.999 g:0.0
584 585	Q N	g(g,g) a(a,a)	0.999 0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.999 a:0.999 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q:0.0
586 587	K	b(b,b)	0.999 0.999	0.999	0.0	a:0.0 b:0.999 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
588	W	d(d,d)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.999 e:0.0 f:0.0 g:0.0
589 590	D A	e(e,e) f(f,f)	0.999 0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.999 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.999 q:0.0
591 592	Q T	g(g,g)	0.999 0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.999
593	s	b(b,b)	0.999	0.999	0.0	a:0.0 b:0.999 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
594 595	R Q	c(c,c) d(d,d)	0.999 0.999	0.999	0.0	a:0.0 b:0.0 c:0.999 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.999 e:0.0 f:0.0 g:0.0
595 596 597	S	e(e,e)	0.999 0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.999 f:0.0 g:0.0
598	L	g(g,g)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.999
599 600	M E	a(a,a) b(b,b)	0.999 0.999	0.999	0.0	a:0.999 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.999 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
601 602	Q L S R Q S E L M E R	c(c,c)	0.999 0.999	0.999	0.0	a:0.0 b:0.0 c:0.999 d:0.0 e:0.0 f:0.0 g:0.0
603	S	e(e,e)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.999 f:0.0 g:0.0
604 605	S K L S	f(f,f) g(g,g)	0.999 0.999	0.999 0.999	0.0	a:u.u b:u.u c:u.0 d:0.0 e:0.0 f:0.999 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.999
606 607	S	a(a,a)	0.999	0.999	0.0	a:0.999 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
608	K -	c(c,c)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.999 d:0.0 e:0.0 f:0.0 g:0.0
609 610	L S	a(d,d) e(e,e)	0.999 0.999	0.999 0.999	0.0	a:u.u b:u.u c:u.0 d:0.999 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.999 f:0.0 g:0.0
611 612	S K L S Q I A	c(c,c) d(d,d) e(e,e) f(f,f) g(g,g) a(a,a) b(b,b) c(c,c) d(d,d,d) e(e,e) f(f,f) g(g,g) a(a,a) b(b,b)	0.999 0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.999 g:0.0
613	A	a(a,a)	0.999	0.999	0.0	a:0.999 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.99
614 615	E S	b(b,b) c(c,c)	0.999 0.999	0.999 0.999	0.0	a:0.0 b:0.999 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.999 d:0.0 e:0.0 f:0.0 g:0.0
616 617	N K	d(d,d) e(e,e)	0.999 0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.999 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.999 f:0.0 g:0.0
		-,-,-,	••••			and 0.0 br0.998 cr0.0 dr0.0 er0.0 fr0.0 gr0.0 ar0.0 br0.0 cr0.0 dr0.998 er0.0 fr0.0 gr0.0 ar0.0 br0.0 cr0.0 dr0.998 er0.0 fr0.0 gr0.0 ar0.0 br0.0 cr0.0 dr0.0 er0.0 gr0.0 ar0.0 br0.0 cr0.0 dr0.0 er0.0 fr0.0 gr0.0 ar0.0 br0.0 cr0.0 dr0.0 er0.

618	F	f(f,f)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.999 g:0.0
619	K	a(a'a)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.999
620	E	a(a,a)	0.999	0.999	0.0	a:0.999 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
621 622	K K	b(b,b) c(c,c)	0.999 0.999	0.999	0.0	a:0.0 b:0.999 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.999 d:0.0 e:0.0 f:0.0 g:0.0
623	I	d(d,d)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.999 e:0.0 f:0.0 q:0.0
624	s	e(e,e)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.999 f:0.0 g:0.0
625	н	f(f,f)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.999 g:0.0
626	G	g(g,g)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.999
627	E	a(a,a)	0.999	0.999	0.0	a:0.999 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
628	M	b(b,b)	0.999	0.999	0.0	a:0.0 b:0.999 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
629	K	c(c,c)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.999 d:0.0 e:0.0 f:0.0 g:0.0
630	W	d(d,d)	0.999	0.000	0 0	a:0.0 b:0.0 c:0.0 d:0.999 e:0.0 f:0.0 g:0.0
631	F	e(e,e)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.999 f:0.0 g:0.0
632	K	f(f,f)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.999 g:0.0
633	E	g(g,g)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.999
634	I	a(a,a)	0.999	0.999	0.0	a:0.999 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
635	R	b(b,b)	0.999	0.999	0.0	a:0.0 b:0.999 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
636	N	c(c,c)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.999 d:0.0 e:0.0 f:0.0 g:0.0
637	Q	d(d,d)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.999 e:0.0 f:0.0 g:0.0
638	I	e(e,e)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.999 f:0.0 g:0.0
639	L	f(f,f)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.999 g:0.0
640	Q	g(g,g)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.999
641	F	a(a,a)	0.999	0.999		a:0.999 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
642	N	b(b,b)	0.999	0.999		a:0.0 b:0.999 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
643	s	c(c,c)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.999 d:0.0 e:0.0 f:0.0 g:0.0
644	F	d(d,d)	0.999	0.999 0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.999 e:0.0 f:0.0 g:0.0
645	V	e(e,e)	0.999 0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.999 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.999 g:0.0
646 647	Н	f(f,f)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.999
648	S	g(g,g) a(a,a)	0.999	0.999	0.0	a:0.999 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.999
649	Q K	b(b,b)	0.999	0.999	0.0	a:0.0 b:0.999 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
650	s	c(c,c)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.999 d:0.0 e:0.0 f:0.0 g:0.0
651	L	d(d,d)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.999 e:0.0 f:0.0 g:0.0
652	Q	e(e,e)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.999 f:0.0 g:0.0
653	Q	f(f,f)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.999 g:0.0
654	Ď	g(g,g)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.999
655	L	a(a,a)	0.999	0.999	0.0	a:0.999 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
656	S	b(b,b)	0.999	0.999	0.0	a:0.0 b:0.999 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
657	Y	c(c,c)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.999 d:0.0 e:0.0 f:0.0 g:0.0
658	L	d(d,d)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.999 e:0.0 f:0.0 g:0.0
659	K	e(e,e)	0.999	0.999	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.999 f:0.0 g:0.0
660	S	f(f,f)	0.999	0.999		a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.999 g:0.0
661	E	g(g,g)	0.999	0.999		a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.999
662	L	a(a,a)	0.999	0.999	0.0	a:0.999 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
663	T	b(b,b)	0.999	0.999	0.0	a:0.0 b:0.999 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
664	R	c(c,c)	0.999	0.998	0.0	a:0.0 b:0.0 c:0.999 d:0.0 e:0.0 f:0.0 g:0.0
665	I	d(d,d)	0.998	0.998	0.0	a:0.0 b:0.0 c:0.0 d:0.998 e:0.0 f:0.0 g:0.0
666	E	e(e,e)	0.998	0.998	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.998 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.997 g:0.0
667 668	A E	f(f,f)	0.997 0.995	0.997 0.995	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 q:0.995
669	T	g(g,g) a(a,a)	0.99	0.99	0.0	a:0.99 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.93
670	Ī	b(b,b)	0.987	0.987		a:0.0 b:0.987 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
671	K	c(c,c)	0.987	0.986	0.0	a:0.0 b:0.0 c:0.987 d:0.0 e:0.0 f:0.0 g:0.0
672	v	d(d,d)	0.986	0.986 0.985	0.0	a:0.0 b:0.0 c:0.0 d:0.986 e:0.0 f:0.0 g:0.0
673	D	e(e,e)	0.985	0.984	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.985 f:0.0 g:0.0
674	K	f(f,f)	0.984	0.984 0.984 0.983	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.984 g:0.0
675	K	g(g,g)	0.983	0.983	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.983
676	S	a(a,a)	0.981	0.98	0.0	a:0.981 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
677	Q	b(b,b)	0.979	0.979	0.0	a:0.0 b:0.979 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
678	N	c(c,c)	0.974	0.973	0.0	a:0.0 b:0.0 c:0.974 d:0.0 e:0.0 f:0.0 g:0.0
679	E	d(d,d)	0.965	0.964	0.0	a:0.0 b:0.0 c:0.0 d:0.965 e:0.0 f:0.0 g:0.0
680	W	e(e,e)	0.954	0.953	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.954 f:0.0 g:0.0
681	D	f(f,f)	0.953	0.953	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.953 g:0.0
682	E	g(g,g)	0.952	0.952	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.952
683	L	a(a,a)	0.949	0.949	0.0	a:0.949 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
684	R	b(b,b)	0.944	0.944	0.0	a:0.0 b:0.944 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
685 686	K M	c(c,c) d(d,d)	0.936 0.926	0.936 0.926	0.0	a:0.0 b:0.0 c:0.936 d:0.0 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.926 e:0.0 f:0.0 g:0.0
687	L	e(e,e)	0.895	0.895	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.895 f:0.0 q:0.0
688	E	f(f,f)	0.88	0.88	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.88 g:0.0
689	ī	g(g,g)	0.853	0.853	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.853
690	D	a(a,a)	0.842	0.842		a:0.842 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
691	s	b(b,b)	0.841	0.841	0.0	a:0.0 b:0.841 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
692	K	c(c,c)	0.839	0.839	0.0	a:0.0 b:0.0 c:0.839 d:0.0 e:0.0 f:0.0 g:0.0
693	I	d(d,d)	0.837	0.837	0.0	a:0.0 b:0.0 c:0.0 d:0.837 e:0.0 f:0.0 g:0.0
694	I	e(e,e)	0.836	0.836	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.836 f:0.0 g:0.0
695	K	f(f,f)	0.835	0.835	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.835 g:0.0
696	E	g(g,g)	0.834	0.834	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.834
697	С	a(a,a)	0.831	0.831	0.0	a:0.831 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
698	N	b(b,b)	0.825	0.825	0.0	a:0.0 b:0.825 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
699	E	c(c,c)	0.815	0.815	0.0	a:0.0 b:0.0 c:0.815 d:0.0 e:0.0 f:0.0 g:0.0
700	E	d(d,d)	0.786	0.786	0.0	a:0.0 b:0.0 c:0.0 d:0.786 e:0.0 f:0.0 g:0.0
701	L	e(e,e)	0.756	0.755	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.756 f:0.0 g:0.0
702	L	f(f,f)	0.741	0.741	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.741 g:0.0
703	Q	a(a'a)	0.735	0.734	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.735
704	V	a(a,a)	0.709	0.709	0.0	a:0.709 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
705	S	b(b,b)	0.677	0.677	0.0	a:0.0 b:0.677 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
706 707	Q E	c(c,c)	0.616	0.615	0.0	a:0.0 b:0.0 c:0.616 d:0.0 e:0.0 f:0.0 g:0.0
707	E F	d(d,d)	0.485 0.357	0.485 0.357	0.0	a:0.0 b:0.0 c:0.0 d:0.485 e:0.0 f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.357 f:0.0 g:0.0
708	T	e(e,e) f(f f)	0.357	0.357	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.35/ f:0.0 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.338 g:0.0
710	T	f(f,f) g(g,g)	0.338	0.338	0.0	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.338 g:0.0 a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.317
710	K	g(g,g) a(a,a)	0.317	0.296	0.0	a:0.296 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.317
712	T	b(b,b)	0.217	0.217	0.0	a:0.0 b:0.217 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
713	Q	c(c,c)	0.159	0.159	0.0	a:0.0 b:0.0 c:0.159 d:0.0 e:0.0 f:0.0 g:0.0
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