



121	T	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
122	V	a(c,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
123	T	b(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
124	S	c(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
125	F	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
126	E	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
127	K	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
127	P	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
128	V	a(c,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
129	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	g:0.0
130	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
131	L	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	g:0.0
132	K	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
133	N	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
134	V	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
135	N	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
136	N	d(b,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
137	T	e(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
138	L	f(d,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
139	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	g:0.0
140	I	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
141	L	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
142	N	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
143	S	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
144	V	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
145	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
146	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	g:0.0
147	L	a(b,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
148	S	b(c,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
149	A	d(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
150	L	e(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
151	D	f(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
152	L	g(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
153	R	a(a,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	T	b(b,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
155	K	c(c,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
156	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:0.0
157	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
158	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
159	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
160	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
161	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
162	Q	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
163	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
164	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
165	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
166	S	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
167	F	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
168	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
169	V	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
170	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
171	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
172	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
173	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
174	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
175	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
176	V	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
177	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
178	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
179	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
180	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	g:0.0
181	R	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
182	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
183	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
184	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:0.0
185	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
186	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
187	A	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
188	W	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
189	R	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
190	N	c(c,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
191	G	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
192	E	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
193	M	f(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
194	E	g(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
195	K	a(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
196	Q	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
197	F	c(c,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
198	E	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
199	F	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
200	S	f(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
201	L	g(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
202	P	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
203	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
204	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:0.0
205	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
206	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
207	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
208	L	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
209	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	g:0.0
210	V	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
211	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	g:0.0
212	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
213	Y	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
214	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
215	P	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
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
217	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
218	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
219	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
220	I	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
221	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
222	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	g:0.0
223	P	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
224	Q	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
225	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	g:0.0
226	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
227	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
228	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
229	V	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
230	F	d(d,d)	0.0	0.0								

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981	Q	b(b,b)	0.338	0.338	0.0	a:0.0	b:0.338	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
982	H	c(c,c)	0.375	0.375	0.0	a:0.0	b:0.0	c:0.375	d:0.0	e:0.0	f:0.0	g:0.0
983	A	d(d,d)	0.405	0.404	0.0	a:0.0	b:0.0	c:0.0	d:0.405	e:0.0	f:0.0	g:0.0
984	V	e(e,e)	0.416	0.415	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.416	f:0.0	g:0.0
985	V	f(f,f)	0.467	0.466	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.467	g:0.0
986	H	g(g,g)	0.626	0.625	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.626
987	D	a(a,a)	0.725	0.724	0.0	a:0.725	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
988	D	b(b,b)	0.765	0.764	0.0	a:0.0	b:0.765	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
989	N	c(c,c)	0.782	0.781	0.0	a:0.0	b:0.0	c:0.782	d:0.0	e:0.0	f:0.0	g:0.0
990	K	d(d,d)	0.79	0.789	0.0	a:0.0	b:0.0	c:0.0	d:0.79	e:0.0	f:0.0	g:0.0
991	S	e(e,e)	0.814	0.813	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.814	f:0.0	g:0.0
992	K	f(f,f)	0.834	0.833	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.833	g:0.0
993	E	g(g,g)	0.844	0.843	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.844
994	M	a(a,a)	0.846	0.845	0.0	a:0.846	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
995	N	b(b,b)	0.848	0.847	0.0	a:0.0	b:0.848	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
996	E	c(c,c)	0.849	0.848	0.0	a:0.0	b:0.0	c:0.849	d:0.0	e:0.0	f:0.0	g:0.0
997	T	d(d,d)	0.849	0.848	0.0	a:0.0	b:0.0	c:0.0	d:0.849	e:0.0	f:0.0	g:0.0
998	S	e(e,e)	0.85	0.849	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.849	f:0.0	g:0.0
999	K	f(f,f)	0.85	0.849	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.85	g:0.0
1000	N	g(g,g)	0.85	0.849	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.85
1001	N	a(a,a)	0.85	0.849	0.0	a:0.85	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1002	R	b(b,b)	0.85	0.849	0.0	a:0.0	b:0.85	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1003	C	c(c,c)	0.85	0.849	0.0	a:0.0	b:0.0	c:0.85	d:0.0	e:0.0	f:0.0	g:0.0
1004	S	d(d,d)	0.85	0.849	0.0	a:0.0	b:0.0	c:0.0	d:0.85	e:0.0	f:0.0	g:0.0
1005	G	e(e,e)	0.85	0.849	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.85	f:0.0	g:0.0
1006	Q	f(f,f)	0.85	0.849	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.85	g:0.0
1007	P	g(g,g)	0.85	0.849	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.85
1008	N	a(a,a)	0.853	0.852	0.0	a:0.853	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1009	H	b(b,b)	0.854	0.853	0.0	a:0.0	b:0.853	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1010	G	c(c,c)	0.854	0.853	0.0	a:0.0	b:0.0	c:0.854	d:0.0	e:0.0	f:0.0	g:0.0
1011	V	d(d,d)	0.856	0.855	0.001	a:0.0	b:0.0	c:0.0	d:0.855	e:0.0	f:0.0	g:0.0
1012	Q	e(e,e)	0.857	0.856	0.001	a:0.0	b:0.0	c:0.0	d:0.0	e:0.857	f:0.0	g:0.0
1013	G	f(f,f)	0.858	0.857	0.001	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.857	g:0.0
1014	D	g(g,g)	0.858	0.857	0.001	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.858
1015	G	a(a,a)	0.859	0.858	0.001	a:0.859	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1016	I	b(b,b)	0.87	0.869	0.001	a:0.0	b:0.869	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1017	A	c(c,c)	0.92	0.919	0.001	a:0.0	b:0.0	c:0.92	d:0.0	e:0.0	f:0.0	g:0.0
1018	L	d(d,d)	0.959	0.957	0.001	a:0.0	b:0.0	c:0.0	d:0.958	e:0.0	f:0.0	g:0.0
1019	K	e(e,e)	0.966	0.964	0.001	a:0.001	b:0.0	c:0.0	d:0.0	e:0.965	f:0.0	g:0.0
1020	K	f(f,f)	0.97	0.968	0.001	a:0.0	b:0.001	c:0.0	d:0.0	e:0.0	f:0.969	g:0.0
1021	D	g(g,g)	0.971	0.97	0.001	a:0.0	b:0.0	c:0.001	d:0.0	e:0.0	f:0.0	g:0.97
1022	N	a(a,a)	0.973	0.971	0.001	a:0.971	b:0.0	c:0.0	d:0.001	e:0.0	f:0.0	g:0.0
1023	E	b(b,b)	0.973	0.972	0.001	a:0.0	b:0.972	c:0.0	d:0.0	e:0.001	f:0.0	g:0.0
1024	K	c(c,c)	0.973	0.972	0.001	a:0.0	b:0.0	c:0.972	d:0.0	e:0.0	f:0.001	g:0.0
1025	E	d(d,d)	0.973	0.972	0.001	a:0.0	b:0.0	c:0.0	d:0.972	e:0.0	f:0.0	g:0.001
1026	N	e(e,e)	0.973	0.972	0.001	a:0.001	b:0.0	c:0.0	d:0.0	e:0.972	f:0.0	g:0.0
1027	F	f(f,f)	0.973	0.972	0.001	a:0.0	b:0.001	c:0.0	d:0.0	e:0.0	f:0.972	g:0.0
1028	D	g(g,g)	0.973	0.972	0.001	a:0.0	b:0.0	c:0.001	d:0.0	e:0.0	f:0.0	g:0.972
1029	S	a(a,a)	0.973	0.972	0.001	a:0.972	b:0.0	c:0.0	d:0.001	e:0.0	f:0.0	g:0.0
1030	N	b(b,b)	0.974	0.972	0.001	a:0.0	b:0.972	c:0.0	d:0.0	e:0.001	f:0.0	g:0.0
1031	M	c(c,c)	0.974	0.972	0.001	a:0.0	b:0.0	c:0.972	d:0.0	e:0.0	f:0.001	g:0.0
1032	A	d(d,d)	0.974	0.972	0.001	a:0.0	b:0.0	c:0.0	d:0.972	e:0.0	f:0.0	g:0.001
1033	I	e(e,e)	0.974	0.972	0.001	a:0.001	b:0.0	c:0.0	d:0.0	e:0.972	f:0.0	g:0.0
1034	K	f(f,f)	0.974	0.972	0.001	a:0.0	b:0.001	c:0.0	d:0.0	e:0.0	f:0.972	g:0.0
1035	Q	g(g,g)	0.974	0.972	0.001	a:0.0	b:0.0	c:0.001	d:0.0	e:0.0	f:0.0	g:0.972
1036	F	a(a,a)	0.974	0.972	0.001	a:0.972	b:0.0	c:0.0	d:0.001	e:0.0	f:0.0	g:0.0
1037	E	b(b,b)	0.974	0.973	0.001	a:0.0	b:0.972	c:0.0	d:0.0	e:0.001	f:0.0	g:0.0
1038	D	c(c,c)	0.974	0.973	0.001	a:0.0	b:0.0	c:0.972	d:0.0	e:0.0	f:0.001	g:0.0
1039	H	d(d,d)	0.974	0.973	0.001	a:0.0	b:0.0	c:0.0	d:0.972	e:0.0	f:0.0	g:0.001
1040	Q	e(e,e)	0.974	0.973	0.001	a:0.001	b:0.0	c:0.0	d:0.0	e:0.972	f:0.0	g:0.0
1041	S	f(f,f)	0.974	0.973	0.001	a:0.0	b:0.001	c:0.0	d:0.0	e:0.0	f:0.972	g:0.0
1042	S	g(g,g)	0.974	0.973	0.001	a:0.0	b:0.0	c:0.001	d:0.0	e:0.0	f:0.0	g:0.972
1043	E	a(a,a)	0.974	0.973	0.001	a:0.972	b:0.0	c:0.0	d:0.001	e:0.0	f:0.0	g:0.0
1044	E	b(b,b)	0.974	0.973	0.001	a:0.0	b:0.972	c:0.0	d:0.0	e:0.001	f:0.0	g:0.0
1045	D	c(c,c)	0.974	0.973	0.001	a:0.0	b:0.0	c:0.972	d:0.0	e:0.0	f:0.001	g:0.0
1046	A	d(d,d)	0.974	0.973	0.001	a:0.0	b:0.0	c:0.0	d:0.972	e:0.0	f:0.0	g:0.001
1047	S	e(e,e)	0.974	0.973	0.001	a:0.001	b:0.0	c:0.0	d:0.0	e:0.972	f:0.0	g:0.0
1048	E	f(f,f)	0.974	0.973	0.001	a:0.0	b:0.001	c:0.0	d:0.0	e:0.0	f:0.972	g:0.0
1049	K	g(g,g)	0.974	0.973	0.001	a:0.0	b:0.0	c:0.001	d:0.0	e:0.0	f:0.0	g:0.972
1050	D	a(a,a)	0.974	0.973	0.001	a:0.972	b:0.0	c:0.0	d:0.001	e:0.0	f:0.0	g:0.0
1051	S	b(b,b)	0.974	0.973	0.001	a:0.0	b:0.972	c:0.0	d:0.0	e:0.001	f:0.0	g:0.0
1052	R	c(c,c)	0.974	0.973	0.001	a:0.0	b:0.0	c:0.972	d:0.0	e:0.0	f:0.001	g:0.0
1053	Q	d(d,d)	0.974	0.973	0.001	a:0.0	b:0.0	c:0.0	d:0.972	e:0.0	f:0.0	g:0.001
1054	S	e(e,e)	0.974	0.973	0.001	a:0.001	b:0.0	c:0.0	d:0.0	e:0.972	f:0.0	g:0.0
1055	S	f(f,f)	0.974	0.973	0.001	a:0.0	b:0.001	c:0.0	d:0.0	e:0.0	f:0.972	g:0.0
1056	E	g(g,g)	0.974	0.973	0.001	a:0.0	b:0.0	c:0.001	d:0.0	e:0.0	f:0.0	g:0.972
1057	V	a(a,a)	0.974	0.972	0.001	a:0.972	b:0.0	c:0.0	d:0.001	e:0.0	f:0.0	g:0.0
1058	K	b(b,b)	0.974	0.972	0.001	a:0.0	b:0.972	c:0.0	d:0.0	e:0.001	f:0.0	g:0.0
1059	E	c(c,c)	0.974	0.972	0.001	a:0.0	b:0.0	c:0.972	d:0.0	e:0.0	f:0.001	g:0.0
1060	S	d(d,d)	0.972	0.971	0.001	a:0.0	b:0.0	c:0.0	d:0.97	e:0.0	f:0.0	g:0.001
1061	D	e(e,e)	0.97	0.97	0.001	a:0.001	b:0.0	c:0.0	d:0.0	e:0.969	f:0.0	g:0.0
1062	D	f(f,f)	0.97	0.969	0.001	a:0.0	b:0.001	c:0.0	d:0.0	e:0.0	f:0.969	g:0.0
1063	N	g(g,g)	0.969	0.968	0.001	a:0.0	b:0.0	c:0.001	d:0.0	e:0.0	f:0.0	g:0.967
1064	M	a(a,a)	0.968	0.967	0.001	a:0.966	b:0.0	c:0.0	d:0.001	e:0.0	f:0.0	g:0.0
1065	S	b(b,b)	0.966	0.965	0.001	a:0.0	b:0.965	c:0.0	d:0.0	e:0.001	f:0.0	g:0.0
1066	L	c(c,c)	0.964	0.962	0.001	a:0.0	b:0.0	c:0.962	d:0.0	e:0.0	f:0.001	g:0.0
1067	N	d(d,d)	0.963	0.961	0.001	a:0.0	b:0.0	c:0.0	d:0.961	e:0.0	f:0.0	g:0.001
1068	S	e(e,e)	0.963	0.961	0.001	a:0.001	b:0.0	c:0.0	d:0.0	e:0.961	f:0.0	g:0.0
1069	D	f(f,f)	0.962	0.961	0.001	a:0.0	b:0.001	c:0.0	d:0.0	e:0.0	f:0.961	g:0.0
1070	R	g(g,g)	0.962	0.961	0.001	a:0.0	b:0.0	c:0.001	d:0.0	e:0.0	f:0.0	g:0.961
1071	D	a(a,a)	0.962	0.96	0.001	a:0.96	b:0.0	c:0.0	d:0.001	e:0.0	f:0.0	g:0.0
1072	E	b(b,b)	0.962	0.96	0.001	a:0.0	b:0.96	c:0.0	d:0.0	e:0.001	f:0.0	g:0.0
1073	S	c(c,c)	0.961	0.96	0.001	a:0.0	b:0.0	c:0.96	d:0.0	e:0.0	f:0.001	g:0.0
1074	I	d(d,d)	0.961	0.959	0.001	a:0.0	b:0.0	c:0.0	d:0.96	e:0.0	f:0.0	g:0.001
1075	S	e(e,e)	0.961	0.959	0.001	a:0.001	b:0.0	c:0.0	d:0.0	e:0.959	f:0.0	g:0.0
1076	E	f(f,f)	0.961	0.959	0.001	a:0.0	b:0.001	c:0.0	d:0.0	e:0.0	f:0.959	g:0.0
1077	S	g(g,g)	0.96	0.959	0.001	a:0.0	b:0.0	c:0.001	d:0.0	e:0.0	f:0.0	g:0.959
1078	Y	a(a,a)	0.96	0.958	0.001	a:0.958	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1079	D	b(b,b)	0.959	0.957	0.001	a:0.0	b:0.958	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1080	K	c(c,c)	0.958	0.956	0.001	a:0.0	b:0.0	c:0.957	d:0.0	e:0.0	f:0.0	g:0.0
1081	L	d(d,d)	0.956	0.954	0.001	a:0.0	b:0.0	c:0.0	d:0.955			

1104	S	f(f,f)	0.155	0.155	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.155	g:0.0
1105	A	g(g,g)	0.148	0.148	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.148
1106	D	a(a,a)	0.142	0.142	0.0	a:0.141	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1107	F	b(b,b)	0.141	0.141	0.0	a:0.0	b:0.141	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1108	D	c(c,c)	0.141	0.141	0.0	a:0.0	b:0.0	c:0.141	d:0.0	e:0.0	f:0.0	g:0.0
1109	V	d(d,d)	0.141	0.141	0.0	a:0.0	b:0.0	c:0.0	d:0.141	e:0.0	f:0.0	g:0.0
1110	Q	e(e,e)	0.141	0.141	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.14	f:0.0	g:0.0
1111	T	f(f,f)	0.14	0.14	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.14	g:0.0
1112	S	g(g,g)	0.139	0.139	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.139
1113	L	a(a,a)	0.138	0.138	0.0	a:0.138	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1114	E	b(b,b)	0.136	0.136	0.0	a:0.0	b:0.135	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1115	D	c(c,c)	0.129	0.129	0.0	a:0.0	b:0.0	c:0.128	d:0.0	e:0.0	f:0.0	g:0.0
1116	N	d(d,d)	0.117	0.117	0.0	a:0.0	b:0.0	c:0.0	d:0.116	e:0.0	f:0.0	g:0.0
1117	Y	e(e,e)	0.113	0.113	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.113	f:0.0	g:0.0
1118	A	f(f,f)	0.112	0.112	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.112	g:0.0
1119	E	g(g,g)	0.11	0.11	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.11
1120	S	a(a,a)	0.101	0.101	0.0	a:0.1	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1121	G	b(b,b)	0.095	0.095	0.0	a:0.0	b:0.095	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1122	I	c(c,g)	0.093	0.093	0.0	a:0.0	b:0.0	c:0.093	d:0.0	e:0.0	f:0.0	g:0.0
1123	Q	d(d,a)	0.092	0.092	0.0	a:0.0	b:0.0	c:0.0	d:0.092	e:0.0	f:0.0	g:0.0
1124	T	e(e,b)	0.092	0.092	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.091	f:0.0	g:0.0
1125	L	f(f,c)	0.091	0.091	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.09	g:0.0
1126	L	g(g,d)	0.089	0.089	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.089
1127	S	a(a,e)	0.088	0.088	0.0	a:0.088	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1128	E	b(b,f)	0.087	0.087	0.0	a:0.0	b:0.087	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1129	S	c(c,g)	0.085	0.085	0.0	a:0.0	b:0.0	c:0.085	d:0.0	e:0.0	f:0.0	g:0.0
1130	S	d(d,a)	0.081	0.081	0.0	a:0.0	b:0.0	c:0.0	d:0.081	e:0.0	f:0.0	g:0.0
1131	K	e(e,b)	0.079	0.079	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.078	f:0.0	g:0.0
1132	E	f(f,c)	0.074	0.074	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.074	g:0.0
1133	N	g(g,d)	0.064	0.064	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.064
1134	E	a(a,e)	0.054	0.054	0.0	a:0.054	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1135	V	b(b,f)	0.049	0.049	0.0	a:0.0	b:0.049	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1136	Q	c(c,g)	0.047	0.047	0.0	a:0.0	b:0.0	c:0.046	d:0.0	e:0.0	f:0.0	g:0.0
1137	T	d(d,a)	0.038	0.038	0.0	a:0.0	b:0.0	c:0.0	d:0.038	e:0.0	f:0.0	g:0.0
1138	D	e(e,b)	0.029	0.029	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.029	f:0.0	g:0.0
1139	A	f(f,c)	0.021	0.021	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.02	g:0.0
1140	I	g(g,d)	0.006	0.006	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.006
1141	P	a(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
1142	V	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
1143	K	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
1144	H	d(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	g:0.0
1145	N	e(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
1146	S	f(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
1147	T	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
1148	Q	a(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
1149	T	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
1150	V	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
1151	K	d(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	g:0.0
1152	K	e(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
1153	E	f(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
1154	A	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
1155	V	a(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
1156	D	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
1157	N	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
1158	G	d(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	g:0.0
1159	L	e(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
1160	Q	f(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
1161	T	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
1162	E	a(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
1163	P	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
1164	V	c(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
1165	E	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
1166	T	e(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
1167	C	f(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
1168	N	g(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
1169	F	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
1170	S	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
1171	V	a(c,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
1172	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
1173	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
1174	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	g:0.0
1175	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
1176	G	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
1177	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	g:0.0
1178	E	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
1179	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
1180	Y	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
1181	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
1182	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	g:0.0
1183	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
1184	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
1185	C	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
1186	K	b(g,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
1187	P	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
1188	K	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
1189	Q	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
1190	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
1191	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
1192	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
1193	Y	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
1194	Y	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
1195	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	g:0.0
1196	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	g:0.0
1197	A	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
1198	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
1199	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
1200	S	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
1201	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
1202	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
1203	P	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
1204	F	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	g:0.0
1205	V	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
1206	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
1207	Q	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
1208	N	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
1209	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</	

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1350	F	f(a,f)	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
1351	D	g(b,g)	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
1352	V	a(c,a)	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
1353	S	b(d,b)	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
1354	A	c(e,c)	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
1355	K	d(f,d)	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
1356	I	e(g,e)	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
1357	N	f(a,f)	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
1358	H	g(b,g)	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
1359	T	a(c,a)	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
1360	E	b(d,b)	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
1361	E	c(e,c)	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
1362	L	d(f,d)	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
1363	L	e(g,e)	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
1364	N	f(a,f)	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
1365	I	g(b,g)	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
1366	L	a(c,a)	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
1367	K	b(d,b)	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
1368	L	c(e,c)	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
1369	F	d(f,d)	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
1370	T	e(g,e)	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
1371	V	f(a,f)	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
1372	K	b(b,g)	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
1373	N	c(c,a)	0.001	0.001	0.0	a:0.0	b:0.0	c:0.001	d:0.0	e:0.0	f:0.0	g:0.0
1374	K	d(d,b)	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
1375	R	e(e,c)	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
1376	L	f(f,d)	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
1377	D	g(g,e)	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
1378	D	a(a,f)	0.001	0.001	0.0	a:0.001	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1379	N	b(b,g)	0.002	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
1380	P	c(c,c)	0.002	0.001	0.0	a:0.0	b:0.0	c:0.001	d:0.0	e:0.0	f:0.0	g:0.0
1381	L	d(d,d)	0.005	0.004	0.001	a:0.0	b:0.0	c:0.0	d:0.005	e:0.0	f:0.0	g:0.0
1382	V	e(e,e)	0.006	0.004	0.001	a:0.0	b:0.0	c:0.0	d:0.0	e:0.006	f:0.0	g:0.0
1383	A	f(f,f)	0.007	0.006	0.001	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.007	g:0.0
1384	K	g(g,g)	0.008	0.007	0.001	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.008
1385	L	a(a,a)	0.009	0.007	0.002	a:0.009	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1386	A	b(b,b)	0.009	0.007	0.002	a:0.0	b:0.009	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1387	K	c(c,c)	0.009	0.007	0.002	a:0.0	b:0.0	c:0.009	d:0.0	e:0.0	f:0.0	g:0.0
1388	E	d(d,d)	0.01	0.007	0.002	a:0.0	b:0.0	c:0.0	d:0.009	e:0.0	f:0.0	g:0.0
1389	S	e(e,e)	0.01	0.007	0.002	a:0.0	b:0.0	c:0.0	d:0.0	e:0.009	f:0.0	g:0.0
1390	L	f(f,f)	0.01	0.007	0.002	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.009	g:0.0
1391	A	g(g,g)	0.01	0.008	0.002	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.01
1392	R	a(a,a)	0.01	0.008	0.002	a:0.01	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1393	D	b(b,b)	0.01	0.008	0.002	a:0.0	b:0.01	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1394	G	c(c,c)	0.01	0.008	0.002	a:0.0	b:0.0	c:0.01	d:0.0	e:0.0	f:0.0	g:0.0
1395	L	d(d,d)	0.01	0.008	0.002	a:0.0	b:0.0	c:0.0	d:0.01	e:0.0	f:0.0	g:0.0
1396	L	e(e,e)	0.01	0.008	0.002	a:0.0	b:0.0	c:0.0	d:0.0	e:0.01	f:0.0	g:0.0
1397	K	f(f,f)	0.01	0.008	0.002	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.01	g:0.0
1398	E	g(g,g)	0.01	0.008	0.002	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.01
1399	I	a(a,a)	0.01	0.008	0.002	a:0.01	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1400	K	b(b,b)	0.01	0.008	0.002	a:0.0	b:0.01	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1401	L	c(c,c)	0.01	0.008	0.002	a:0.0	b:0.0	c:0.01	d:0.0	e:0.0	f:0.0	g:0.0
1402	L	d(d,d)	0.01	0.008	0.002	a:0.0	b:0.0	c:0.0	d:0.01	e:0.0	f:0.0	g:0.0
1403	R	e(e,e)	0.01	0.008	0.002	a:0.0	b:0.0	c:0.0	d:0.0	e:0.01	f:0.0	g:0.0
1404	E	f(f,f)	0.01	0.008	0.002	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.01	g:0.0
1405	V	g(g,g)	0.01	0.008	0.002	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.01
1406	V	a(a,a)	0.01	0.008	0.002	a:0.01	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1407	S	b(b,b)	0.01	0.008	0.002	a:0.0	b:0.01	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1408	R	c(c,c)	0.01	0.008	0.002	a:0.0	b:0.0	c:0.01	d:0.0	e:0.0	f:0.0	g:0.0
1409	L	d(d,d)	0.01	0.008	0.002	a:0.0	b:0.0	c:0.0	d:0.01	e:0.0	f:0.0	g:0.0
1410	Q	e(e,e)	0.01	0.007	0.002	a:0.0	b:0.0	c:0.0	d:0.0	e:0.01	f:0.0	g:0.0
1411	L	f(f,f)	0.009	0.007	0.002	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.009	g:0.0
1412	E	g(g,g)	0.008	0.006	0.002	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.008
1413	E	a(a,a)	0.006	0.005	0.001	a:0.006	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1414	K	b(b,b)	0.006	0.004	0.001	a:0.0	b:0.006	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1415	G	c(c,c)	0.005	0.003	0.001	a:0.0	b:0.0	c:0.005	d:0.0	e:0.0	f:0.0	g:0.0
1416	K	d(d,d)	0.004	0.003	0.001	a:0.0	b:0.0	c:0.0	d:0.004	e:0.0	f:0.0	g:0.0
1417	K	e(e,e)	0.004	0.003	0.001	a:0.0	b:0.0	c:0.0	d:0.0	e:0.004	f:0.0	g:0.0
1418	A	f(f,f)	0.004	0.002	0.001	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.004	g:0.0
1419	S	g(g,g)	0.003	0.002	0.001	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.003
1420	S	a(a,a)	0.003	0.002	0.001	a:0.003	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1421	F	b(b,b)	0.002	0.001	0.0	a:0.0	b:0.002	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1422	D	c(c,c)	0.002	0.001	0.0	a:0.0	b:0.0	c:0.002	d:0.0	e:0.0	f:0.0	g:0.0
1423	A	d(d,d)	0.002	0.001	0.0	a:0.0	b:0.0	c:0.0	d:0.002	e:0.0	f:0.0	g:0.0
1424	S	e(e,e)	0.002	0.001	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.002	f:0.0	g:0.0
1425	S	f(f,f)	0.002	0.001	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.002	g:0.0
1426	S	g(g,g)	0.002	0.001	0.0	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.002
1427	I	a(a,a)	0.001	0.001	0.0	a:0.001	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1428	T	b(b,b)	0.001	0.0	0.0	a:0.0	b:0.001	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
1429	K	c(c,c)	0.001	0.0	0.0	a:0.0	b:0.0	c:0.001	d:0.0	e:0.0	f:0.0	g:0.0
1430	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
1431	M	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
1432	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
1433	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
1434	F	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
1435	K	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
1436	V	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
1437	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
1438	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
1439	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
1440	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
1441	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
1442	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
1443	M	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
1444	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
1445	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
1446	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
1447	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
1448	Q	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
1449	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
1450	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
1451	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
1452	F	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
1453	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
1454	K											