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123	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
124	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	g:0.0
125	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
126	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
127	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
128	L	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
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	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
131	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
132	S	g(e,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
133	S	a(f,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
134	T	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
135	N	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
136	S	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	N	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	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
139	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
140	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
141	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
142	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
143	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
144	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
145	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
146	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
147	F	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
148	G	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
149	G	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
150	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
151	N	a(f,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
152	N	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
153	T	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
154	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
155	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
156	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
157	S	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
158	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
159	G	g(g,g)	0.0	0.0	0.0	a:0.0	b:					

371	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
372	D	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
373	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	g:0.0
374	D	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
375	A	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
376	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
377	K	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
378	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
379	A	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
380	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
381	S	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
382	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
383	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
384	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
385	K	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
386	P	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
387	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
388	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
389	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
390	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
391	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
392	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
393	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
394	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
395	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
396	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
397	P	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
398	F	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
399	F	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
400	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
401	G	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
402	F	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
403	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
404	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
405	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
406	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
407	E	f(f,f)	0.0	0.0	0.0	a:0.0	b:					

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618	L	f(f,f)	0.057	0.053	0.003	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.057	g:0.0
619	K	g(g,g)	0.058	0.054	0.003	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.058
620	L	a(a,a)	0.059	0.055	0.004	a:0.059	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
621	N	b(b,b)	0.059	0.055	0.004	a:0.0	b:0.059	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
622	S	c(c,c)	0.059	0.055	0.004	a:0.0	b:0.0	c:0.059	d:0.0	e:0.0	f:0.0	g:0.0
623	K	d(d,d)	0.06	0.055	0.004	a:0.0	b:0.0	c:0.0	d:0.06	e:0.0	f:0.0	g:0.0
624	P	e(e,e)	0.06	0.056	0.004	a:0.0	b:0.0	c:0.0	d:0.0	e:0.06	f:0.0	g:0.0
625	V	f(f,f)	0.162	0.141	0.02	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.162	g:0.0
626	E	g(g,g)	0.341	0.293	0.047	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.341
627	L	a(a,a)	0.384	0.326	0.058	a:0.384	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
628	K	b(b,b)	0.401	0.339	0.062	a:0.0	b:0.401	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
629	P	c(c,c)	0.409	0.345	0.064	a:0.0	b:0.0	c:0.409	d:0.0	e:0.0	f:0.0	g:0.0
630	V	d(d,d)	0.482	0.399	0.082	a:0.0	b:0.0	c:0.0	d:0.482	e:0.0	f:0.0	g:0.0
631	S	e(e,e)	0.564	0.467	0.096	a:0.0	b:0.0	c:0.0	d:0.0	e:0.564	f:0.0	g:0.0
632	L	f(f,f)	0.633	0.522	0.11	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.633	g:0.0
633	D	g(g,g)	0.761	0.631	0.129	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.761
634	N	a(a,a)	0.849	0.704	0.144	a:0.849	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
635	K	b(b,b)	0.888	0.732	0.156	a:0.0	b:0.888	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
636	T	c(c,c)	0.913	0.747	0.165	a:0.0	b:0.0	c:0.913	d:0.0	e:0.0	f:0.0	g:0.0
637	L	d(d,d)	0.941	0.766	0.175	a:0.0	b:0.0	c:0.0	d:0.941	e:0.0	f:0.0	g:0.0
638	D	e(e,e)	0.946	0.768	0.177	a:0.0	b:0.0	c:0.0	d:0.0	e:0.946	f:0.0	g:0.0
639	S	f(f,f)	0.954	0.774	0.18	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.954	g:0.0
640	L	g(g,g)	0.962	0.778	0.184	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.962
641	V	a(a,a)	0.972	0.783	0.188	a:0.972	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
642	T	b(b,b)	0.979	0.788	0.19	a:0.0	b:0.979	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
643	K	c(c,c)	0.988	0.794	0.193	a:0.0	b:0.0	c:0.988	d:0.0	e:0.0	f:0.0	g:0.0
644	W	d(d,d)	0.992	0.796	0.195	a:0.0	b:0.0	c:0.0	d:0.992	e:0.0	f:0.0	g:0.0
645	T	e(e,e)	0.995	0.797	0.197	a:0.0	b:0.0	c:0.0	d:0.0	e:0.995	f:0.0	g:0.0
646	N	f(f,f)	0.997	0.798	0.198	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.997	g:0.0
647	Q	g(g,g)	0.998	0.799	0.199	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.998
648	L	a(a,a)	0.998	0.799	0.199	a:0.998	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
649	T	b(b,b)	0.999	0.799	0.199	a:0.0	b:0.999	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
650	E	c(c,c)	0.999	0.799	0.199	a:0.0	b:0.0	c:0.999	d:0.0	e:0.0	f:0.0	g:0.0
651	S	d(d,d)	0.999	0.799	0.199	a:0.0	b:0.0	c:0.0	d:0.999	e:0.0	f:0.0	g:0.0
652	D	e(e,e)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.999	f:0.0	g:0.0
653	S	f(f,f)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.999	g:0.0
654	H	g(g,g)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.999
655	F	a(a,a)	0.999	0.799	0.2	a:0.999	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
656	E	b(b,b)	0.999	0.799	0.2	a:0.0	b:0.999	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
657	Q	c(c,c)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.999	d:0.0	e:0.0	f:0.0	g:0.0
658	Y	d(d,d)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.999	e:0.0	f:0.0	g:0.0
659	T	e(e,e)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.999	f:0.0	g:0.0
660	K	f(f,f)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.999	g:0.0
661	K	g(g,g)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.999
662	I	a(a,a)	0.999	0.799	0.2	a:0.999	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
663	N	b(b,b)	0.999	0.799	0.2	a:0.0	b:0.999	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
664	S	c(c,c)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.999	d:0.0	e:0.0	f:0.0	g:0.0
665	W	d(d,d)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.999	e:0.0	f:0.0	g:0.0
666	D	e(e,e)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.999	f:0.0	g:0.0
667	Q	f(f,f)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.999	g:0.0
668	V	g(g,g)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.999
669	L	a(a,a)	0.999	0.799	0.2	a:0.999	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
670	V	b(b,b)	0.999	0.799	0.2	a:0.0	b:0.999	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
671	K	c(c,c)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.999	d:0.0	e:0.0	f:0.0	g:0.0
672	G	d(d,d)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.999	e:0.0	f:0.0	g:0.0
673	G	e(e,e)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.999	f:0.0	g:0.0
674	E	f(f,f)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.999	g:0.0
675	Q	g(g,g)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.999
676	I	a(a,a)	0.999	0.799	0.2	a:0.999	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
677	S	b(b,b)	0.999	0.799	0.2	a:0.0	b:0.999	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
678	Q	c(c,c)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.999	d:0.0	e:0.0	f:0.0	g:0.0
679	L	d(d,d)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.999	e:0.0	f:0.0	g:0.0
680	Y	e(e,e)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.999	f:0.0	g:0.0
681	S	f(f,f)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.999	g:0.0
682	D	g(g,g)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.999
683	A	a(a,a)	0.999	0.799	0.2	a:0.999	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
684	V	b(b,b)	0.999	0.799	0.2	a:0.0	b:0.999	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
685	M	c(c,c)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.999	d:0.0	e:0.0	f:0.0	g:0.0
686	A	d(d,d)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.999	e:0.0	f:0.0	g:0.0
687	E	e(e,e)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.999	f:0.0	g:0.0
688	H	f(f,f)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.999	g:0.0
689	S	g(g,g)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.999
690	Q	a(a,a)	0.999	0.799	0.2	a:0.999	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
691	N	b(b,b)	0.999	0.799	0.2	a:0.0	b:0.999	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
692	K	c(c,c)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.999	d:0.0	e:0.0	f:0.0	g:0.0
693	I	d(d,d)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.999	e:0.0	f:0.0	g:0.0
694	D	e(e,e)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.999	f:0.0	g:0.0
695	S	f(f,f)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.999	g:0.0
696	S	g(g,g)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.999
697	L	a(a,a)	0.999	0.799	0.2	a:0.999	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
698	Q	b(b,b)	0.999	0.799	0.2	a:0.0	b:0.999	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
699	Y	c(c,c)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.999	d:0.0	e:0.0	f:0.0	g:0.0
700	I	d(d,d)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.999	e:0.0	f:0.0	g:0.0
701	E	e(e,e)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.999	f:0.0	g:0.0
702	R	f(f,f)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.999	g:0.0
703	Q	g(g,g)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.999
704	Q	a(a,a)	0.999	0.799	0.2	a:0.999	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
705	D	b(b,b)	0.999	0.799	0.2	a:0.0	b:0.999	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
706	E	c(c,c)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.999	d:0.0	e:0.0	f:0.0	g:0.0
707	L	d(d,d)	0.999	0.799	0.2	a:0.0	b:0.0	c:0.0	d:0.999	e:0.0	f:0.0	g:0.0
708	E	e(e,e)	0.998	0.798	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.998	f:0.0	g:0.0
709	N	f(f,f)	0.995	0.795	0.2	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.995	g:0.0
710	F	g(g,g)	0.989	0.79	0.199	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.989
711	L	a(a,a)	0.989	0.789	0.199	a:0.989	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
712	D	b(b,b)	0.989	0.789	0.199	a:0.0	b:0.989	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
713	N	c(c,c)	0.988	0.788	0.199	a:0.0	b:0.0	c:0.988	d:0.0	e:0.0	f:0.0	g:0.0
714	F	d(d,d)	0.987	0.788	0.199	a:0.0	b:0.0	c:0.0	d:0.987	e:0.0	f:0.0	g:0.0
715	E	e(e,e)	0.986	0.787	0.198	a:0.0	b:0.0	c:0.0	d:0.0	e:0.986	f:0.0	g:0.0
716	T	f(f,f)	0.983	0.784	0.198	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.983	g:0.0
717	K	g(g,g)	0.979	0.781	0.197	a:0.0	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.979
718	T	a(a,a)	0.971	0.774	0.196	a:0.971	b:0.0	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
719	E	b(b,b)	0.968	0.772	0.195	a:0.0	b:0.968	c:0.0	d:0.0	e:0.0	f:0.0	g:0.0
720	A	c(c,c)	0.958	0.764	0.194	a:0.0						

742	Q	b(d,b)	0.431	0.192	0.238	a:0.0 b:0.3 c:0.0 d:0.131 e:0.0 f:0.0 g:0.0
743	Q	c(e,c)	0.435	0.19	0.244	a:0.0 b:0.0 c:0.308 d:0.0 e:0.126 f:0.0 g:0.0
744	A	d(f,d)	0.426	0.181	0.244	a:0.0 b:0.0 c:0.0 d:0.313 e:0.0 f:0.112 g:0.0
745	Y	e(e,e)	0.407	0.166	0.24	a:0.0 b:0.0 c:0.0 d:0.0 e:0.316 f:0.0 g:0.09
746	K	f(f,f)	0.412	0.164	0.247	a:0.086 b:0.0 c:0.0 d:0.0 e:0.0 f:0.325 g:0.0
747	T	g(g,g)	0.403	0.152	0.25	a:0.0 b:0.072 c:0.0 d:0.0 e:0.0 f:0.0 g:0.33
748	A	a(a,a)	0.394	0.14	0.253	a:0.336 b:0.0 c:0.057 d:0.0 e:0.0 f:0.0 g:0.0
749	Q	b(b,b)	0.386	0.129	0.257	a:0.0 b:0.342 c:0.0 d:0.044 e:0.0 f:0.0 g:0.0
750	T	c(c,c)	0.38	0.121	0.259	a:0.0 b:0.0 c:0.345 d:0.0 e:0.035 f:0.0 g:0.0
751	L	d(d,d)	0.37	0.109	0.261	a:0.0 b:0.0 c:0.0 d:0.349 e:0.0 f:0.021 g:0.0
752	D	e(e,e)	0.366	0.105	0.261	a:0.0 b:0.0 c:0.0 d:0.0 e:0.35 f:0.0 g:0.016
753	E	f(f,f)	0.36	0.099	0.261	a:0.009 b:0.0 c:0.0 d:0.0 e:0.0 f:0.351 g:0.0
754	N	g(g,g)	0.358	0.096	0.261	a:0.0 b:0.006 c:0.0 d:0.0 e:0.0 f:0.0 g:0.351
755	L	a(a,a)	0.354	0.092	0.261	a:0.352 b:0.0 c:0.002 d:0.0 e:0.0 f:0.0 g:0.0
756	N	b(b,b)	0.353	0.091	0.261	a:0.0 b:0.352 c:0.0 d:0.001 e:0.0 f:0.0 g:0.0
757	S	c(c,c)	0.353	0.091	0.262	a:0.0 b:0.0 c:0.352 d:0.0 e:0.0 f:0.0 g:0.0
758	L	d(d,d)	0.353	0.091	0.262	a:0.0 b:0.0 c:0.0 d:0.353 e:0.0 f:0.0 g:0.0
759	S	e(e,e)	0.353	0.091	0.262	a:0.0 b:0.0 c:0.0 d:0.0 e:0.353 f:0.0 g:0.0
760	S	f(f,f)	0.353	0.091	0.262	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.353 g:0.0
761	N	g(g,g)	0.353	0.091	0.262	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.353
762	L	a(a,a)	0.353	0.091	0.262	a:0.353 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
763	S	b(b,b)	0.353	0.091	0.262	a:0.0 b:0.353 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
764	S	c(c,c)	0.353	0.091	0.262	a:0.0 b:0.0 c:0.353 d:0.0 e:0.0 f:0.0 g:0.0
765	L	d(d,d)	0.353	0.091	0.262	a:0.0 b:0.0 c:0.0 d:0.353 e:0.0 f:0.0 g:0.0
766	I	e(e,e)	0.353	0.091	0.262	a:0.0 b:0.0 c:0.0 d:0.0 e:0.353 f:0.0 g:0.0
767	V	f(f,f)	0.353	0.09	0.262	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.353 g:0.0
768	E	g(g,g)	0.353	0.09	0.262	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.353
769	I	a(a,a)	0.353	0.09	0.262	a:0.353 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
770	N	b(b,b)	0.353	0.09	0.262	a:0.0 b:0.353 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
771	N	c(c,c)	0.352	0.09	0.262	a:0.0 b:0.0 c:0.352 d:0.0 e:0.0 f:0.0 g:0.0
772	V	d(d,d)	0.352	0.09	0.262	a:0.0 b:0.0 c:0.0 d:0.352 e:0.0 f:0.0 g:0.0
773	S	e(e,e)	0.352	0.09	0.261	a:0.0 b:0.0 c:0.0 d:0.0 e:0.352 f:0.0 g:0.0
774	N	f(f,f)	0.352	0.09	0.261	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.352 g:0.0
775	T	g(g,g)	0.352	0.09	0.261	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.352
776	F	a(a,a)	0.351	0.09	0.261	a:0.351 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
777	N	b(b,b)	0.351	0.09	0.261	a:0.0 b:0.351 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
778	K	c(c,c)	0.351	0.09	0.261	a:0.0 b:0.0 c:0.351 d:0.0 e:0.0 f:0.0 g:0.0
779	T	d(d,d)	0.351	0.09	0.261	a:0.0 b:0.0 c:0.0 d:0.351 e:0.0 f:0.0 g:0.0
780	T	e(e,e)	0.351	0.09	0.261	a:0.0 b:0.0 c:0.0 d:0.0 e:0.351 f:0.0 g:0.0
781	N	f(f,f)	0.351	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.351 g:0.0
782	I	g(g,g)	0.35	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.35
783	D	a(a,a)	0.35	0.09	0.26	a:0.35 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
784	I	b(b,b)	0.35	0.09	0.26	a:0.0 b:0.35 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
785	N	c(c,c)	0.35	0.09	0.26	a:0.0 b:0.0 c:0.35 d:0.0 e:0.0 f:0.0 g:0.0
786	N	d(d,d)	0.35	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.35 e:0.0 f:0.0 g:0.0
787	E	e(e,e)	0.35	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.0 e:0.35 f:0.0 g:0.0
788	D	f(f,f)	0.351	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.351 g:0.0
789	E	g(g,g)	0.351	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.351
790	N	a(a,a)	0.351	0.09	0.26	a:0.351 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
791	I	b(b,b)	0.351	0.09	0.26	a:0.0 b:0.351 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
792	Q	c(c,c)	0.351	0.09	0.26	a:0.0 b:0.0 c:0.351 d:0.0 e:0.0 f:0.0 g:0.0
793	L	d(d,d)	0.351	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.351 e:0.0 f:0.0 g:0.0
794	I	e(e,e)	0.351	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.0 e:0.351 f:0.0 g:0.0
795	K	f(f,f)	0.351	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.351 g:0.0
796	I	g(g,g)	0.351	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.351
797	L	a(a,a)	0.351	0.09	0.26	a:0.351 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
798	N	b(b,b)	0.351	0.09	0.26	a:0.0 b:0.351 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
799	S	c(c,c)	0.351	0.09	0.26	a:0.0 b:0.0 c:0.351 d:0.0 e:0.0 f:0.0 g:0.0
800	H	d(d,d)	0.351	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.35 e:0.0 f:0.0 g:0.0
801	F	e(e,e)	0.35	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.0 e:0.35 f:0.0 g:0.0
802	D	f(f,f)	0.35	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.35 g:0.0
803	A	g(g,g)	0.35	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.35
804	L	a(a,a)	0.35	0.09	0.26	a:0.35 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
805	R	b(b,b)	0.35	0.09	0.26	a:0.0 b:0.35 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
806	S	c(c,c)	0.35	0.09	0.26	a:0.0 b:0.0 c:0.35 d:0.0 e:0.0 f:0.0 g:0.0
807	L	d(d,d)	0.35	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.35 e:0.0 f:0.0 g:0.0
808	D	e(e,e)	0.35	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.0 e:0.35 f:0.0 g:0.0
809	D	f(f,f)	0.35	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.35 g:0.0
810	N	g(g,g)	0.35	0.09	0.26	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.35
811	S	a(a,a)	0.35	0.09	0.26	a:0.35 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
812	T	b(b,b)	0.35	0.089	0.26	a:0.0 b:0.35 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
813	S	c(c,c)	0.35	0.089	0.26	a:0.0 b:0.0 c:0.35 d:0.0 e:0.0 f:0.0 g:0.0
814	L	d(d,d)	0.35	0.089	0.26	a:0.0 b:0.0 c:0.0 d:0.35 e:0.0 f:0.0 g:0.0
815	E	e(e,e)	0.349	0.089	0.259	a:0.0 b:0.0 c:0.0 d:0.0 e:0.349 f:0.0 g:0.0
816	K	f(f,f)	0.347	0.089	0.258	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.347 g:0.0
817	Q	g(g,g)	0.344	0.088	0.255	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.344
818	I	a(a,a)	0.334	0.084	0.249	a:0.334 b:0.0 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
819	N	b(b,b)	0.313	0.079	0.233	a:0.0 b:0.313 c:0.0 d:0.0 e:0.0 f:0.0 g:0.0
820	S	c(c,c)	0.286	0.072	0.213	a:0.0 b:0.0 c:0.286 d:0.0 e:0.0 f:0.0 g:0.0
821	I	d(d,d)	0.237	0.056	0.18	a:0.0 b:0.0 c:0.0 d:0.237 e:0.0 f:0.0 g:0.0
822	K	e(e,e)	0.186	0.046	0.139	a:0.0 b:0.0 c:0.0 d:0.0 e:0.186 f:0.0 g:0.0
823	K	f(f,f)	0.11	0.029	0.081	a:0.0 b:0.0 c:0.0 d:0.0 e:0.0 f:0.11 g:0.0