

Appendix C: Genotype data used in linkage mapping and QTL analysis

The complete genotypic data are given. RAPD markers are listed down the page and are named according to the primer which generated the band, an underscore and the size of the band produced (kB). Loci 1-352 were generated by RAPD primer kits obtained from the University of Guelph. Loci 353-475 were generated by RAPD primer kits obtained from Operon Technologies. Loci designated mA followed by a number refer to microsatellite markers. Loci with the prefix sts refer to sequence tagged sites. Size polymorphisms are indicated by an "f" following the marker name. All other loci refer to presence / absence polymorphisms.

Individual bees are listed across the page. W17 is the F1 drone mother, and daughter of the hygienic queen R79. Individuals 1-119 are from Experimental cross A. For each marker, the allele inherited from the hygienic parent is coded "A" and the allele from the non-hygienic parent is coded "H". Alleles are to be read by the mapping software. Missing data is designated by "-".

	individual	R79	W17	A	H	1	2	3	4	5	6	7	8	9	10	11	12
locus	RAPD marker																
1	*U101_25	+	+	+	-	A	H	A	H	A	A	A	A	H	A	H	
2	*U102_1.8	+	+	+	-	H	H	H	A	A	A	H	A	A	H	A	A
3	*U103_49	-	+	-	+	H	H	H	A	A	A	A	H	H	A	A	A
4	*U104_45	-	+	-	+	-	-	H	H	A	H	A	A	A	A	A	A
5	*U104_65	+	+	+	-	H	H	H	H	H	A	A	A	A	A	H	H
6	*U105_31	+	+	+	-	H	A	H	A	H	H	H	H	A	H	A	H
7	*U105_4f	both	both	380	390	A	A	A	H	H	A	A	H	H	H	A	H
8	*U105_64	+	+	+	-	A	H	H	H	H	H	H	H	A	H	H	A
9	*U105_0.8	+	+	+	-	A	H	H	A	H	A	A	H	H	A	A	A
10	*U108_4f	490bp	both	490	483	A	H	A	H	A	A	A	H	A	A	H	A
11	*U108_61	+	+	+	-	-	A	A	H	A	H	A	H	A	H	A	H
12	*U110_1.7	+	+	+	-	A	H	A	H	A	A	A	A	A	H	A	H
13	*U111_33	-	+	-	+	A	H	H	A	H	H	H	H	A	A	H	H
14	*U114_30	+	+	+	-	A	-	H	H	H	A	A	H	H	H	H	A
15	*U114_1.1	+	+	+	-	A	A	A	H	H	H	A	A	A	H	A	H
16	*U116_20	202	both	202	191	H	A	H	H	A	H	H	H	H	A	H	A
17	*U116_84	-	+	-	+	A	A	A	H	A	A	H	A	A	A	H	H
18	*U117_83	+	+	+	-	A	-	-	H	A	A	A	A	A	H	A	H
19	*U119_65f	both	both	655	680	A	H	A	H	A	A	A	A	A	H	A	H
20	*U120_65	+	+	+	-	A	H	A	A	A	A	A	A	A	A	H	H
21	*U120_83	+	+	+	-	A	H	A	H	H	H	H	A	H	A	A	H
22	*U120_1.8	+	+	+	-	A	H	H	A	H	H	H	H	A	A	H	H
23	*U121_0.4	+	+	+	-	A	A	A	A	H	H	A	A	H	A	H	H
24	*U122_21	+	+	+	-	A	H	A	A	H	H	A	H	H	A	H	H
25	*U122_38	+	+	+	-	A	H	A	A	H	H	H	H	H	H	H	A
26	*U122_51	+	+	+	-	H	H	H	A	H	H	H	H	A	A	A	A
27	*U122_64	+	+	+	-	H	A	A	A	H	H	A	-	-	A	-	A
28	*U122_7f	?	both	700	690	H	A	H	H	H	H	H	A	A	H	H	A
29	*U123_1.0	+	+	+	-	A	A	H	H	A	A	A	H	A	A	-	H
30	*U123_2.3	-	+	-	+	-	-	H	A	A	A	A	H	H	A	A	A
31	*U127_19	-	+	-	+	A	H	A	A	H	A	A	A	A	H	A	A
32	*U129_23	-	+	-	+	H	H	H	H	H	H	A	H	H	A	A	H
33	*U131_49	+	+	+	-	A	A	A	H	A	A	H	-	A	H	H	A
34	*U131_1.0	-	+	-	+	-	H	H	A	A	H	A	-	H	A	H	A
35	*U132_21	+	+	+	-	A	H	A	A	H	A	A	A	H	A	A	A
36	*U133_1.1	-	+	-	+	A	A	A	H	A	A	H	H	A	H	H	A
37	*U133_1.3f	1.3	both	1.3	1.4	A	A	A	H	A	H	A	H	A	A	A	-
38	*U135_8f	both	both	795	830	H	A	A	H	A	H	H	H	H	A	H	A
39	*U136_90	-	+	-	+	-	H	H	H	A	A	A	H	H	A	A	A
40	*U139_56	+	+	+	-	H	A	A	H	A	H	H	A	H	H	H	A
41	*U139_87	+	+	+	-	H	H	H	A	H	H	A	A	H	A	A	A
42	*U140_1.2	-	+	-	+	-	A	A	A	H	H	A	H	H	A	H	H
43	*U141_71	+	+	+	-	H	H	H	A	H	A	H	A	H	H	H	H
44	*U149_52	-	+	-	+	A	H	H	A	H	A	A	H	H	A	A	A
45	*U150_32	-	+	-	+	A	H	H	H	A	H	A	-	A	H	A	H
46	*U155_33	-	+	-	+	H	H	A	H	A	H	H	A	A	H	A	A
47	*U161_19	+	+	+	-	A	A	A	H	A	H	H	A	A	A	H	H
48	*U161_51	+	+	+	-	A	H	H	H	H	H	A	A	H	H	A	A
49	*U169_5f	both	both	520	530	A	A	A	H	H	A	A	H	H	H	A	H
50	*U169_76	-	+	-	+	-	A	A	A	H	H	A	A	A	H	A	A
51	*U172_08	+	+	+	-	-	A	A	H	H	H	A	A	H	A	H	H
52	*U172_5f	500	both	500	510	-	A	A	A	A	H	A	H	H	A	A	A
53	*U172_1.8	+	+	+	-	-	H	A	H	H	A	A	H	A	H	A	H
54	*U172_2.2	-	+	-	+	-	A	A	H	A	A	H	H	A	H	A	A
55	*U175_4f	both	both	380	400	-	H	A	A	H	H	A	H	H	H	H	H

all

56	*U175_75	+	+	+	-	-	H	H	H	H	H	H	A	H	A	H	A
57	*U177_76	+	+	+	-	-	H	H	H	A	H	H	H	A	H	A	A
58	*U177_8f	850	both	850	860	-	A	H	A	H	A	A	H	H	H	A	H
59	*U181_16	+	+	+	-	-	A	H	H	H	H	A	A	H	H	H	A
60	*U184_23	+	+	+	-	-	A	H	H	A	H	A	A	A	A	-	A
61	*U188_3f	310	both	310	300	-	H	H	H	A	H	H	A	H	A	H	A
62	*U188_77	-	+	-	+	-	A	A	A	H	A	A	A	H	H	A	H
63	*U188_95	+	+	+	-	-	A	H	A	A	H	H	H	H	A	H	A
64	*U190_90	+	+	+	-	-	H	A	A	A	H	H	H	H	A	H	A
65	*U193_86	+	+	+	-	-	H	A	H	H	A	H	A	H	-	-	-
66	*U197_57	+	+	+	-	-	A	A	A	A	A	A	A	A	H	H	A
67	*U199_64	-	+	-	+	-	-	A	A	H	A	A	A	A	H	H	A
68	*U199_74	+	+	+	-	-	H	A	A	A	H	A	H	H	H	A	H
69	*U199_79	?	+	+	-	-	A	A	A	H	A	H	A	A	H	A	H
70	*U199_1.6	+	+	+	-	-	H	A	H	A	H	H	H	A	A	A	A
71	*U201_28	+	+	+	-	-	H	A	A	H	A	A	H	H	A	H	A
72	*U201_58	+	+	+	-	-	A	H	H	A	H	H	A	A	H	A	H
73	*U203_08	+	+	+	-	-	A	H	A	A	A	A	A	A	A	H	A
74	*U203_63	+	+	+	-	-	A	H	A	A	A	A	A	A	A	H	H
75	*U204_50	-	+	-	+	-	A	A	H	H	A	H	A	H	A	H	A
76	*U205_82	+	+	+	-	-	A	H	H	H	A	A	H	A	A	H	A
77	*U209_15	+	+	+	-	-	H	A	H	H	A	A	H	A	A	-	A
78	*U209_77	+	+	+	-	-	A	A	A	H	H	A	A	H	H	-	A
79	*U209_1.4	-	+	-	+	-	A	A	H	H	A	H	A	-	A	H	A
80	*U210_75	+	+	+	-	-	H	A	A	H	H	H	A	H	A	H	A
81	*U210_1.4	+	+	+	-	-	A	A	A	H	H	A	A	A	H	H	A
82	*U213_46	+	+	+	-	-	H	H	A	H	A	H	A	H	H	A	A
83	*U215_38	+	+	+	-	-	A	H	A	A	A	A	A	A	A	H	A
84	*U215_54	+	+	+	-	-	H	A	H	H	H	A	H	H	A	A	A
85	*U218_1.0	+	+	+	-	-	A	H	A	A	H	A	H	A	A	H	A
86	*U218_1.2	+	+	+	-	-	A	A	-	H	-	H	A	A	H	H	A
87	*U220_74	+	+	+	-	-	A	H	-	H	A	H	A	H	A	A	A
88	*U223_1.2	+	+	+	-	-	H	H	H	A	H	A	H	A	H	H	H
89	*U227_70	+	+	+	-	-	A	A	A	H	A	A	A	A	H	H	A
90	*U230_47	-	+	-	+	-	H	H	H	A	A	A	H	H	A	A	A
91	*U230_50	-	+	-	+	-	H	A	H	H	H	A	H	H	A	A	A
92	*U230_56	+	+	+	-	-	A	A	A	H	H	A	H	A	H	A	A
93	*U234_52	+	+	+	-	-	H	H	A	-	A	A	A	H	H	H	A
94	*U234_64	+	+	+	-	-	A	A	A	H	A	H	H	A	A	A	H
95	*U234_93	-	+	-	+	-	A	A	H	H	H	A	A	A	H	-	H
96	*U235_26	+	+	+	-	-	A	A	A	H	A	H	H	A	A	A	H
97	*U235_8f	780bp	both	780	800	-	A	A	A	H	A	H	A	H	H	A	A
98	*U236_34	+	+	+	-	-	A	A	H	H	A	A	A	H	A	H	A
99	*U236_37	-	+	-	+	-	H	A	A	H	H	H	A	H	A	H	A
100	*U237_27	+	+	+	-	-	H	H	H	A	A	A	A	H	H	A	A
101	*U237_6f	680bp	both	680	650	-	H	H	H	H	A	A	A	A	A	H	A
102	*U237_1.8	+	+	+	-	-	A	A	A	H	A	H	H	H	A	H	A
103	*U239_56	-	+	-	+	-	A	H	H	H	A	H	A	A	A	H	A
104	*U242_24	-	+	-	+	-	A	A	A	H	A	A	H	H	H	H	H
105	*U242_47	+	+	+	-	-	A	H	A	H	H	A	A	H	H	H	A
106	*U244_37	+	+	+	-	-	A	A	H	H	H	H	H	A	H	H	A
107	*U244_50	+	+	+	-	-	A	A	H	H	H	H	H	A	A	H	A
108	*U247_1.3	1.3kb	both	1.3	1.4	-	H	H	H	H	A	A	H	H	A	H	A
109	*U250_48	+	+	+	-	-	A	H	H	A	H	H	A	A	H	A	H
110	*U250_6f	660bp	both	660	640	-	H	A	H	H	H	H	H	A	H	H	A
111	*U251_21	-	+	-	+	-	A	H	A	H	H	A	H	-	A	A	H
112	*U251_48	-	+	-	+	-	A	A	A	H	A	H	H	A	A	A	H
113	*U253_78	+	+	+	-	-	A	A	H	A	H	H	H	A	A	H	A
114	*U254_16	+	+	+	-	-	A	H	H	A	H	H	H	H	A	A	H
115	*U254_18	+	+	+	-	-	H	A	H	H	H	H	H	H	H	A	H
116	*U254_88	+	+	+	-	-	A	H	A	H	A	H	H	A	A	H	A
117	*U254_1f	both	both	950	1kb	-	H	A	H	H	A	A	H	A	A	A	A
118	*U256_60	+	+	+	-	-	H	A	A	-	A	H	H	H	A	A	H
119	*U256_7f	650/?	both	650	760	-	A	H	A	H	H	H	A	H	H	H	A
120	*U256_1.9	+	+	+	-	-	A	H	A	H	A	A	A	A	A	H	A
121	*U257_57	-	+	-	+	-	A	A	H	A	H	H	-	H	H	H	H
122	*U257_1.0	+	+	+	-	-	H	H	A	H	A	A	A	H	A	H	A
123	*U258_1.6	both	both	1.6	1.7	-	H	H	H	A	H	H	A	A	H	A	A
124	*U259_35	+	+	+	-	-	A	A	H	H	H	A	A	A	H	H	H
125	*U259_1.7	+	+	+	-	-	H	A	A	A	H	H	H	H	A	H	A
126	*U261_62	+	+	+	-	-	A	H	A	A	H	H	A	-	H	-	H

127	*U261_1.0	+	+	+	-	A	H	H	H	H	A	A	-	H	-	H	A
128	*U262_54	-	+	-	+	A	A	H	H	A	H	A	H	H	A	H	A
129	*U262_71	-	+	-	+	H	A	A	H	H	A	H	H	A	-	-	A
130	*U263_19	-	+	-	+	A	A	H	H	A	A	H	H	H	H	H	A
131	*U264_1.7	-	+	-	+	A	A	A	H	A	H	H	H	A	H	A	H
132	*U266_34	-	+	-	+	H	H	H	H	A	H	H	H	H	H	A	A
133	*U266_1.1	1.5	both	1.5	1.1	A	H	A	A	H	A	A	A	A	A	A	H
134	*U269_22	+	+	+	-	H	A	A	H	H	H	A	H	A	H	A	A
135	*U269_24	+	+	+	-	A	A	H	A	A	H	A	H	H	H	A	A
136	*U269_1.2	+	+	+	-	H	H	A	A	H	H	A	H	A	A	A	A
137	*U271_57	+	+	+	-	A	H	H	H	A	A	H	H	H	H	-	H
138	*U274_0.5	+	+	+	-	A	H	A	A	H	H	A	H	H	H	H	H
139	*U274_77	+	+	+	-	H	H	A	A	H	H	H	A	H	H	A	A
140	*U275_4f	both	both	0.39	0.42	H	A	A	A	H	H	H	H	A	H	A	H
141	*U275_48	+	+	+	-	A	H	H	H	A	A	H	H	H	A	H	H
142	*U276_56	+	+	+	-	H	A	H	H	A	A	H	A	A	H	A	A
143	*U276_1.1	+	+	+	-	H	A	H	A	A	A	H	A	A	H	A	A
144	*U276_1.6	+	+	+	-	A	H	A	A	A	A	A	A	A	A	H	H
145	*U277_31	-	+	-	+	H	A	H	H	A	H	H	H	H	A	H	A
146	*U277_1.4	+	+	+	-	A	A	-	A	H	H	H	A	A	H	A	H
147	*U278_7f	both	both	690	700	H	A	H	H	A	A	-	A	A	A	A	A
148	*U278_84	+	+	+	-	A	A	H	H	A	A	-	A	A	H	A	A
149	*U280_54	+	+	+	-	A	H	H	A	H	H	H	H	A	A	H	H
150	*U281_22	+	+	+	-	A	A	A	A	A	A	A	H	H	H	H	A
151	*U281_3f	both	both	330	360	-	A	A	A	-	A	A	A	A	H	A	H
152	*U282_30	+	+	+	-	H	A	A	A	-	H	H	A	A	A	A	A
153	*U283_1.7	+	+	+	-	H	A	H	A	H	A	A	A	A	A	H	A
154	*U284_6f	both	both	590	620	A	A	A	A	H	A	A	H	H	H	H	H
155	*U286_77	+	+	+	-	A	H	A	H	H	A	A	A	A	H	A	H
156	*U287_29	+	+	+	-	A	H	A	H	A	A	A	A	H	A	H	A
157	*U289_54	+	+	+	-	A	H	H	A	H	H	H	H	A	A	H	-
158	*U291_57	-	+	-	+	A	A	H	H	A	H	-	H	A	H	-	H
159	*U291_7f	700bp	both	700	670	A	A	H	A	H	H	-	A	A	H	-	H
160	*U292_11	+	+	+	-	H	H	H	A	A	H	A	A	H	A	H	A
161	*U292_14	+	+	+	-	A	H	A	H	A	H	A	A	H	H	A	A
162	*U292_0.2	+	+	+	-	H	H	A	A	H	H	A	H	H	A	H	A
163	*U292_95	+	+	+	-	H	A	H	H	A	A	A	A	H	A	H	H
164	*U293_6f	both	both	656	630	H	A	H	H	A	A	H	A	H	A	H	H
165	*U293_0.9	+	+	+	-	H	H	H	A	H	A	A	H	H	A	A	A
166	*U295_06	60 bp	both	60	65	A	A	A	A	H	H	H	H	H	A	A	H
167	*U295_31	+	+	+	-	H	A	A	H	A	H	H	H	H	A	H	A
168	*U295_62	+	+	+	-	H	H	H	H	A	H	H	A	A	A	A	A
169	*U296_15	+	+	+	-	A	H	A	H	H	A	H	A	A	A	H	A
170	*U296_22	+	+	+	-	A	H	A	H	H	H	A	A	H	H	A	A
171	*U296_1.0	-	+	-	+	H	H	A	A	H	H	H	H	H	A	A	H
172	*U297_53	+	+	+	-	A	H	A	A	A	A	A	A	A	H	A	A
173	*U297_62	+	+	+	-	-	A	H	H	A	-	A	A	A	H	H	A
174	*U300_1.3	both?	both	1.3	2.3	H	H	A	A	H	H	A	A	A	A	A	H
175	*U301_15	-	+	-	+	A	A	A	H	A	H	A	A	A	A	H	H
176	*U301_57	+	+	+	-	A	H	H	H	H	A	A	H	H	H	H	H
177	*U301_61	+	+	+	-	H	H	A	A	H	H	A	A	A	A	A	H
178	*U302_1.0	+	+	+	-	A	H	H	A	H	H	H	H	A	A	H	H
179	*U302_2f	1.6kb	both	1.6	1.8	H	H	A	A	H	A	H	A	H	H	A	A
180	*U303_12	-	+	-	+	H	H	H	A	A	A	H	H	A	A	H	A
181	*U303_14	-	+	-	+	A	H	A	A	H	H	H	H	H	H	A	A
182	*U303_24	+	+	+	-	H	A	A	A	A	A	H	H	A	H	A	H
183	*U303_38	+	+	+	-	A	H	A	A	H	H	A	H	A	H	A	A
184	*U303_81	+	+	+	-	A	H	A	H	A	A	H	A	H	H	A	A
185	*U303_1.7	-	+	-	+	A	H	H	H	H	A	A	H	H	H	H	A
186	*U304_29	290 bp	both	290	280	A	H	H	H	A	H	A	A	H	H	A	A
187	*U304_3f	both	both	320	330	H	H	A	A	H	H	A	A	A	A	A	H
188	*U305_17	170 bp	both	170	180	H	H	H	H	A	A	A	A	A	H	A	A
189	*U306_19	+	+	+	-	A	H	A	A	H	H	A	H	H	H	H	H
190	*U306_1.8	+	+	+	-	A	A	A	H	H	A	A	H	A	H	A	H
191	*U307_55	-	+	-	+	H	H	H	A	H	A	A	A	A	A	A	H
192	*U307_9f	900 bp	both	900	920	H	H	H	A	H	H	H	-	A	H	A	A
193	*U308_0.2	+	+	+	-	A	H	A	H	A	A	A	H	A	A	A	H
194	*U308_2f	280 bp	both	280	240	A	H	A	A	A	A	H	A	H	H	A	A
195	*U308_7f	both	both	715	730	H	A	H	H	H	A	H	A	A	A	H	A
196	*U309_3f	both	both	370	360	H	H	A	H	A	A	H	A	A	A	A	H
197	*U309_51	-	+	-	+	A	A	A	H	A	H	H	A	A	A	H	H

198	*U309_86	+	+	+	-	A	A	H	H	A	A	A	A	A	A	A	A
199	*U309_1.3	+	+	+	-	A	A	H	A	H	H	H	H	A	A	H	H
200	*U313_29	+	+	+	-	H	H	H	A	H	A	A	H	H	H	A	A
201	*U314_1.3	+	+	+	-	H	A	H	H	H	A	A	H	H	A	A	H
202	*U316_4f	450 bp	both	450	370	A	H	H	H	H	H	H	A	H	H	H	H
203	*U316_1.3	-	+	-	+	A	A	H	H	H	H	H	H	A	H	A	H
204	*U317_3f	both	both	330	360	A	H	A	H	A	A	H	H	H	A	H	H
205	*U317_76	both?	both	760	770	A	A	-	H	A	A	A	A	A	A	A	A
206	*U317_1.2	+	+	+	-	H	A	-	H	H	A	H	A	H	A	H	A
207	*U320_73	+	+	+	-	A	H	A	A	H	A	H	A	A	-	H	A
208	*U322_31	+	+	+	-	A	A	H	H	A	A	A	A	H	H	H	H
209	*U322_3f	330 bp	both	330	340	A	A	A	A	A	A	A	A	H	H	A	A
210	*U324_18	+	+	+	-	A	H	H	A	H	H	H	H	A	A	H	H
211	*U324_32	+	+	+	-	H	H	H	A	H	H	H	H	A	A	A	A
212	*U324_60	+	+	+	-	H	H	H	H	A	H	H	A	A	A	A	A
213	*U326_82	-	+	-	+	H	A	H	H	H	H	H	H	H	H	A	A
214	*U327_0.2	+	+	+	-	A	H	H	H	A	H	A	H	A	A	H	A
215	*U327_52	-	+	-	+	A	H	A	H	A	A	A	H	H	A	A	A
216	*U328_3.0	+	+	+	-	H	A	H	A	A	A	H	A	A	H	H	A
217	*U330_0.4	-	+	-	+	A	A	A	A	A	A	A	A	H	H	A	A
218	*U331_75	-	+	-	+	A	A	A	H	A	A	H	A	H	A	H	H
219	*U331_85	+	+	+	-	A	H	H	H	H	H	H	A	H	H	A	H
220	*U331_2.1	+	+	+	-	A	H	A	H	H	A	A	H	H	H	H	A
221	*U332_11	+	+	+	-	H	A	H	H	A	H	A	H	H	A	H	H
222	*U332_6f	both?	both	640	620	H	H	H	A	A	A	A	H	H	A	A	A
223	*U332_7f	750bp	both	750	730	A	H	H	A	H	H	A	H	H	H	H	H
224	*U333_12	+	+	+	-	A	A	A	H	A	H	H	H	H	A	A	H
225	*U333_0.2	+	+	+	-	A	A	H	H	H	H	H	-	H	A	A	H
226	*U335_3f	both	both	340	360	H	H	H	A	A	A	H	H	H	A	H	A
227	*U335_9f	both	both	900	940	H	-	A	H	A	H	H	A	H	A	A	A
228	*U335_1.1	+	+	+	-	H	H	H	A	A	H	H	A	H	A	H	A
229	*U336_18	+	+	+	-	H	A	H	A	A	H	H	A	A	H	H	H
230	*U336_23	+	+	+	-	A	H	A	A	A	H	A	H	H	H	H	H
231	*U336_28	+	+	+	-	H	H	H	A	A	H	A	H	A	H	H	H
232	*U336_5f	500bp	both	500	490	A	A	A	A	A	H	A	H	H	A	A	A
233	*U336_71	+	+	+	-	A	A	H	H	A	H	A	A	A	H	A	H
234	*U336_73	-	+	-	+	A	A	A	H	H	H	H	H	A	H	H	H
235	*U338_1f	160	both	160	170	A	H	A	A	H	H	A	A	H	H	H	A
236	*U338_33	+	+	+	-	H	H	A	A	A	A	A	H	H	A	H	A
237	*U338_1.1	+	+	+	-	A	H	H	A	A	A	H	A	H	A	H	-
238	*U339_3.0	+	+	+	-	H	A	A	A	H	A	A	A	A	A	H	H
239	*U340_49	+	+	+	-	H	H	A	A	A	A	A	A	H	A	H	H
240	*U340_78	+	+	+	-	H	A	A	A	A	A	H	H	A	H	H	A
241	*U340_1.3	+	+	+	-	A	H	H	H	A	A	A	H	H	A	A	A
242	*U341_15	+	+	+	-	A	H	H	H	A	H	H	H	H	A	A	H
243	*U341_5f	480bp	both	480	490	A	A	A	H	H	H	H	H	A	H	A	H
244	*U341_6f	630bp	both	630	660	H	A	A	H	A	H	H	H	A	A	H	A
245	*U342_07	-	+	-	+	H	H	H	H	A	A	H	H	H	H	H	H
246	*U342_22	-	+	-	+	H	A	H	H	H	A	A	A	A	A	A	A
247	*U342_4f	both	both	480	490	H	H	A	A	A	H	A	A	H	H	H	A
248	*U342_5f	both	both	540	530	A	A	A	H	A	H	H	H	H	H	H	A
249	*U342_6f	690bp	both	690	650	A	H	A	H	A	A	A	A	H	H	H	H
250	*U342_79	+	+	+	-	-	A	A	A	A	A	A	H	A	H	A	A
251	*U342_1.3	+	+	+	-	-	A	A	A	H	H	H	H	A	H	A	H
252	*U344_62	+	+	+	-	A	A	A	H	A	H	A	A	A	A	H	H
253	*U345_43	?	+	-	+	H	A	H	H	H	H	H	H	H	H	A	A
254	*U345_5f	520	both	520	510	A	H	H	H	-	H	A	H	H	A	H	A
255	*U348_53	+	+	+	-	H	A	H	H	A	H	A	H	H	A	H	H
256	*U348_5f	both	both	550	560	H	H	H	A	H	A	A	A	A	A	A	H
257	*U351_64	+	+	+	-	H	A	A	A	H	A	A	A	A	H	A	H
258	*U351_88	+	+	+	-	A	A	H	H	A	A	A	A	H	H	H	H
259	*U351_2.0	+	+	+	-	H	H	A	A	H	H	H	H	H	A	A	H
260	*U353_45	+	+	+	-	A	H	A	H	A	A	H	A	H	H	A	A
261	*U353_57	?	+	-	+	H	A	A	H	A	H	H	A	A	H	H	H
262	*U353_7f	790bp	both	790	770	A	H	H	A	H	H	H	H	A	A	H	H
263	*U354_14	+	+	+	-	H	H	H	H	A	A	A	H	H	A	A	-
264	*U354_5f	both	both	520	500	A	H	A	A	H	A	A	H	H	A	H	H
265	*U356_12	both	both	130	120	-	A	A	A	A	A	H	H	A	H	H	H
266	*U356_32	-	+	-	+	A	A	A	H	A	H	H	H	A	H	A	H
267	*U358_6f	650	both	650	680	A	H	A	H	A	A	A	A	A	H	A	H
268	*U360_6f	610bp	both	610	640	A	H	A	H	A	H	A	A	H	H	A	A

all

269	*U361_16	+	+	+	-	H	A	H	H	A	H	A	H	H	A	A	H
270	*U361_25	+	+	+	-	H	A	H	H	H	H	H	H	H	H	A	A
271	*U361_8f	?	both	790	810	A	A	H	A	H	H	H	H	A	A	H	H
272	*U362_47	-	+	-	+	A	H	H	H	A	A	A	H	H	-	-	-
273	*U363_78	+	+	+	-	H	H	A	A	H	A	H	A	H	A	H	A
274	*U368_5f	both	both	520	540	H	-	H	H	A	H	H	H	A	H	H	A
275	*U369_0.3	+	+	+	-	H	H	A	A	H	H	A	H	H	A	H	A
276	*U369_7f	700bp	both	700	680	H	H	H	A	A	A	A	H	H	A	A	A
277	*U369_1.8	+	+	+	-	H	A	A	A	A	-	A	H	A	H	H	A
278	*U370_1.3	+	+	+	-	H	H	H	A	A	A	H	H	H	A	-	A
279	*U371_0.5	+	+	+	-	H	A	H	H	H	H	H	H	H	H	H	H
280	*U371_7f	both	both	700	730	A	A	A	A	A	A	H	A	A	A	A	H
281	*U372_1.7	+	+	+	-	A	H	A	A	A	A	H	A	A	A	H	H
282	*U373_13	+	+	+	-	A	H	A	A	H	H	A	H	A	H	A	-
283	*U373_22	+	+	+	-	H	A	A	A	A	A	A	A	H	H	A	A
284	*U373_1.0	-	+	-	+	H	A	H	A	A	A	A	H	H	H	H	H
285	*U374_53	+	+	+	-	H	H	-	H	-	H	A	A	-	A	A	H
286	*U374_65	-	+	-	+	A	A	-	A	-	A	A	H	-	A	H	H
287	*U375_2f	both	both	225	235	A	H	A	H	H	H	A	H	H	A	H	H
288	*U375_3f	285bp	both	285	280	A	A	A	H	A	H	H	H	A	H	H	H
289	*U375_61	+	+	+	-	A	H	H	A	H	A	A	A	A	H	A	H
290	*U376_03	-	+	-	+	A	H	A	H	A	A	A	H	A	A	H	A
291	*U376_1f	both	both	120	130	A	H	H	H	A	A	A	H	H	H	H	H
292	*U377_85	+	+	+	-	H	H	H	H	H	A	H	A	A	H	H	H
293	*U378_9f	both	both	900	955	A	A	A	H	A	H	A	H	A	A	A	-
294	*U379_1f	?	both	100	90	H	H	H	A	A	A	H	H	H	A	H	-
295	*U379_5f	both	both	530	515	A	A	H	A	-	H	-	A	A	H	A	-
296	*U380_77	+	+	+	-	H	A	A	H	A	A	H	H	A	A	A	A
297	*U383_25	+	+	+	-	A	H	H	H	A	A	H	H	H	H	H	H
298	*U383_31	+	+	+	-	H	A	H	H	A	H	H	H	H	A	H	H
299	*U384_4f	400	both	400	390	-	A	A	H	H	H	A	H	A	H	A	A
300	*U384_47	-	+	-	+	-	H	A	H	A	A	H	H	H	H	H	A
301	*U384_71	+	+	+	-	-	H	A	A	H	H	H	H	H	A	A	H
302	*U384_1.2	+	+	+	-	-	H	A	A	A	H	H	A	H	H	H	A
303	*U385_2f	275	both	275	260	A	H	H	H	A	H	A	A	A	H	A	H
304	*U385_82	+	+	+	-	H	H	H	A	A	A	A	H	H	A	A	A
305	*U385_87	?	+	+	-	H	H	A	H	H	A	H	A	A	A	H	H
306	*U386_26	+	+	+	-	H	H	H	A	A	H	H	A	H	-	H	A
307	*U386_5f	both	both	520	540	H	H	H	H	H	A	H	A	A	H	H	H
308	*U387_1.9	+	+	+	-	A	A	A	H	H	A	A	H	A	H	A	H
309	*U388_22	+	+	+	-	H	H	H	H	A	H	H	H	H	H	A	A
310	*U388_3f	340bp	both	340	330	H	A	H	H	H	H	H	H	H	H	A	A
311	*U391_28	-	+	-	+	A	H	H	H	H	H	H	A	H	A	A	A
312	*U391_4f	390	both	390	400	-	A	H	H	A	A	A	A	A	A	A	A
313	*U392_38	-	+	-	+	A	H	H	H	A	H	H	H	H	H	H	H
314	*U393_14	140bp	both	140	130	H	H	A	A	H	A	H	A	A	A	H	H
315	*U394_1f	120bp	both	120	110	H	H	H	A	A	A	H	A	A	H	H	A
316	*U394_78	-	+	-	+	H	H	A	A	H	H	H	H	-	A	A	H
317	*U395_51	+	+	+	-	H	A	H	H	A	A	A	H	A	H	A	-
318	*U395_0.7	+	+	+	-	H	H	H	A	H	H	A	A	H	A	A	-
319	*U395_73	?	+	+	-	H	H	H	H	H	A	A	A	A	-	H	-
320	*U396_2f	270bp	both	270	260	H	H	A	A	A	A	H	H	H	H	A	A
321	*U396_4f	both	both	400	390	A	H	A	H	H	H	A	A	A	H	A	H
322	*U396_63	+	+	+	-	A	A	A	H	A	H	A	A	A	A	-	H
323	*U396_87	+	+	+	-	A	A	H	H	H	H	H	H	A	H	-	H
324	*U396_1.8	+	+	+	-	-	A	A	A	A	A	A	A	H	H	-	A
325	*U397_0.5	+	+	+	-	H	A	H	A	A	H	H	A	A	A	A	H
326	*U397_75	+	+	+	-	A	A	A	A	A	A	A	A	H	A	H	H
327	*U397_85	-	+	-	+	A	A	A	H	H	H	A	A	A	H	-	H
328	*U397_9f	both	both	900	875	H	A	H	A	H	A	A	A	H	H	-	H
329	*U398_1.1	+	+	+	-	A	H	A	H	H	A	A	A	A	H	A	H
330	*U399_6f	both	both	610	590	A	A	H	H	A	A	A	A	A	H	A	H
331	*U444_0.4	+	+	+	-	A	A	A	A	H	A	A	A	A	H	H	A
332	*U444_77	+	+	+	-	A	A	H	H	A	A	A	A	A	A	A	A
333	*U444_86	-	+	-	+	A	A	A	H	A	A	A	A	H	H	H	H
334	*U444_0.9	+	+	+	-	A	A	A	H	H	H	A	A	A	H	A	H
335	*U444_1.0	+	+	+	-	A	A	A	H	A	H	A	A	A	A	H	H
336	*U444_1.2f	1.3kb	both	1.3	1.2	-	A	H	H	H	H	H	A	H	H	A	H
337	*U446_3f	both	both	340	350	A	H	H	H	A	A	A	A	A	H	A	H
338	*U446_4f	both	both	360	370	A	H	H	H	H	H	A	H	H	A	H	H
339	*U446_5	+	+	+	-	A	H	A	H	H	A	H	A	H	H	A	A

340	*U446_65	+	+	+	-	A	H	A	H	A	A	H	H	H	A	H	H
341	*U446_66	-	+	-	+	H	H	A	H	A	H	H	H	H	A	H	A
342	*U450_15	-	+	-	+	H	H	H	A	A	A	A	H	H	A	A	A
343	*U450_29	+	+	+	-	A	H	A	H	A	A	A	H	H	A	A	A
344	*U450_54	+	+	+	-	H	H	H	A	A	H	H	A	A	A	H	A
345	*U460_0.2	+	+	+	-	A	H	A	A	A	H	A	H	H	H	A	H
346	*U460_0.7	+	+	+	-	A	A	A	A	-	H	A	H	H	A	H	H
347	*U536_16	+	+	+	-	A	A	A	H	H	A	A	H	H	H	A	H
348	*U536_35	+	+	+	-	A	A	H	A	H	A	A	H	H	A	H	H
349	*U536_0.4	+	+	+	-	H	H	H	H	A	H	A	H	A	A	H	A
350	*U536_48	+	+	+	-	A	A	A	A	A	A	A	A	H	H	A	A
351	*U540_0.3	-	+	-	+	H	A	A	H	H	H	A	H	A	H	A	A
352	*U540_8f	800bp	both	800	830	A	H	A	H	A	A	A	A	H	H	H	H
353	*A1_73	-	+	-	+	H	H	A	H	H	A	A	H	A	H	A	A
354	*A3_26	+	+	+	-	H	H	H	A	A	A	H	H	A	A	H	A
355	*A3_52	-	+	-	+	A	H	A	H	A	H	H	H	H	H	H	H
356	*A3_70	-	+	-	+	H	A	H	H	H	H	A	A	A	A	H	A
357	*A3_1.0	+	+	+	-	A	A	H	H	A	A	H	H	H	H	H	A
358	*A3_2.0	+	+	+	-	H	A	H	H	A	A	A	H	A	H	A	H
359	*B1_49	+	+	+	-	A	H	A	A	H	A	H	A	A	H	A	A
360	*B7_23	+	+	+	-	H	H	A	H	A	H	A	H	H	A	A	H
361	*B7_25f	250bp	both	250	270	A	A	A	H	H	H	A	H	H	A	H	H
362	*B7_28	-	+	-	+	A	A	A	H	A	H	A	H	A	A	H	H
363	*B7_60	+	+	+	-	A	A	H	H	H	H	H	H	A	H	A	H
364	*B7_82	+	+	+	-	H	A	A	H	H	H	A	H	A	H	A	A
365	*C2_38f	390bp	both	390	380	A	H	A	A	A	H	A	H	A	H	A	A
366	*C2_45	+	+	+	-	A	A	H	H	A	A	A	A	H	H	H	H
367	*C5_0.9	+	+	+	-	A	A	A	A	A	A	A	A	A	A	A	A
368	*C9_38	+	+	+	-	-	H	A	H	A	H	H	A	A	H	A	A
369	*C9_55	+	+	+	-	A	A	A	H	H	H	H	A	-	H	H	H
370	*C9_76	+	+	+	-	A	H	A	A	H	H	H	H	A	H	-	A
371	*C9_87	+	+	+	-	H	H	A	H	A	A	H	A	A	A	A	H
372	*C9_2.4f	2.3kb	both	2.3	2.5	H	H	H	H	H	H	A	H	H	A	H	H
373	*E7_84	+	+	+	-	H	A	H	H	H	A	H	A	H	A	H	A
374	*E9_18	-	+	-	+	H	A	A	H	A	A	H	H	A	H	A	A
375	*E9_24	+	+	+	-	A	A	A	H	A	H	H	H	H	H	A	H
376	*E9_56	-	+	-	+	A	A	A	H	A	A	H	A	A	A	H	H
377	*E9_75	-	+	-	+	H	H	H	A	H	A	A	H	H	A	A	A
378	*E9_0.9	+	+	+	-	H	A	A	A	A	A	A	H	A	H	H	H
379	*F3_86	+	+	+	-	H	H	A	H	A	H	A	H	H	A	A	H
380	*F8_2f	220bp	both	220	210	A	H	A	A	A	H	H	A	H	A	H	A
381	*F8_5f	both	both	510	530	A	H	H	A	A	A	H	A	H	A	H	H
382	*F8_67	-	+	-	+	H	A	H	A	H	A	A	H	H	H	H	A
383	*G4_35	-	+	-	+	A	A	A	H	A	H	H	H	A	H	A	H
384	*G4_48	+	+	+	-	A	A	A	H	A	H	A	A	A	A	H	H
385	*G4_5f	550bp	both	550	530	A	A	A	H	A	H	H	H	H	H	A	H
386	*G4_8f	870	both	870	840	A	H	A	H	H	A	A	H	H	H	H	A
387	*G4_1.4	+	+	+	-	A	H	A	H	H	H	A	A	H	A	H	A
388	*G4_2.0	+	+	+	-	H	A	A	A	A	H	A	A	H	A	A	H
389	*G17_5f	490	both	490	480	A	H	A	A	A	H	A	H	H	H	-	H
390	*G17_57	-	+	-	+	H	H	H	H	H	A	A	A	A	A	H	H
391	*G17_75	-	+	-	+	H	A	H	H	H	H	A	A	A	A	H	A
392	*G17_0.9	-	+	-	+	H	A	A	H	A	H	H	H	A	A	H	A
393	*G17_1.0	+	+	+	-	H	H	H	A	H	H	A	H	A	-	A	A
394	*G17_2.0	+	+	+	-	A	H	H	H	A	A	A	A	H	A	H	A
395	*H13_57	+	+	+	-	A	H	A	A	H	H	A	H	H	H	H	H
396	*H13_1.2f	both	both	1.2	1.3	H	A	H	H	A	A	H	A	H	A	H	H
397	*H13_2.3	+	+	+	-	A	H	A	H	A	H	A	-	H	H	A	A
398	*K15_28f	285bp	both	285	275	H	A	H	H	H	H	H	-	H	A	H	-
399	*K15_32	+	+	+	-	H	A	H	A	H	H	H	-	H	A	H	-
400	*K15_65	+	+	+	-	A	H	A	A	A	A	A	-	A	H	A	-
401	*K15_84	+	+	+	-	A	A	A	A	A	H	H	-	H	H	H	-
402	*L7_4f	400bp	both	400	370	A	H	H	A	A	A	A	H	H	A	A	-
403	*L7_46	+	+	+	-	A	A	A	A	H	H	H	H	A	A	A	-
404	*L15_56	-	+	-	+	A	A	H	H	-	H	H	A	A	A	H	H
405	*L16_57	-	+	-	+	A	H	H	A	A	A	A	H	H	A	A	A
406	*L18_33	+	+	+	-	H	A	A	A	A	A	A	H	A	H	H	H
407	*L18_34	-	+	-	+	A	H	H	A	H	A	A	H	H	A	A	A
408	*L18_74	+	+	+	-	A	A	A	A	H	A	A	H	A	H	A	H
409	*M5_37	+	+	+	-	A	A	A	H	A	H	A	A	A	A	H	H
410	*M5_0.5	+	+	+	-	H	A	H	H	A	H	H	H	H	H	H	H

all

411	*M5_52	-	+	-	+	H	A	H	A	A	A	A	H	A	H	H	A
412	*M5_63	both	both	640	620	H	H	H	H	A	H	H	A	H	A	A	A
413	*M5_82	+	+	+	-	H	H	A	H	A	H	A	-	A	H	A	A
414	*N11_0.5	+	+	+	-	H	A	H	A	A	A	H	A	A	H	A	A
415	*N11_74	+	+	+	-	A	H	A	H	A	H	H	H	A	A	H	H
416	*N11_78	?	+	+	-	H	H	H	H	H	H	H	A	A	A	-	H
417	*O1_0.9	-	+	-	+	H	H	H	A	H	A	A	A	A	-	A	A
418	*O1_1.1	+	+	+	-	H	A	H	A	H	-	H	H	H	-	H	A
419	*O2_47	+	+	+	-	H	H	H	H	A	H	H	H	H	H	A	A
420	*O2_53fa	both	both	540	520	A	A	A	A	H	H	A	H	A	H	H	H
421	*P13_21	?	+	+	-	A	A	A	H	A	A	H	A	A	H	H	H
422	*P13_1.2	+	+	+	-	H	A	H	H	H	H	H	H	H	A	H	-
423	*Q9_47	+	+	+	-	H	A	H	A	H	H	H	A	H	A	H	A
424	*Q9_57	+	+	+	-	A	A	A	A	H	H	H	H	H	A	A	H
425	*Q13_0.8f	780bp	both	780	800	A	A	A	H	A	H	H	H	A	H	A	H
426	*Q13_1.1	+	+	+	-	H	A	H	H	A	-	A	A	A	H	A	A
427	*Q16_19	+	+	+	-	A	H	H	A	H	A	A	A	H	H	A	H
428	*Q16_0.7	+	+	+	-	A	H	A	A	A	A	A	A	A	A	A	A
429	*Q18_56	+	+	+	-	H	A	H	H	H	A	H	H	A	A	H	H
430	*Q18_68	+	+	+	-	H	H	A	A	H	H	H	H	H	H	H	H
431	*Q18_1.4	+	+	+	-	A	A	H	H	A	A	A	H	A	H	A	H
432	*R3_24	+	+	+	-	H	H	A	H	A	A	A	A	A	A	A	H
433	*R3_36	+	+	+	-	A	H	A	H	H	H	A	H	H	A	A	H
434	*R3_51	+	+	+	-	H	A	H	A	H	A	H	H	H	A	A	H
435	*R11_27	+	+	+	-	A	H	A	A	H	A	A	A	H	A	A	H
436	*R11_67	+	+	+	-	H	A	A	A	H	A	A	A	A	A	-	H
437	*R20_6f	both	both	600	590	-	H	-	A	A	A	H	A	A	H	A	A
438	*R20_65	+	+	+	-	H	H	A	A	H	H	H	A	H	H	A	A
439	*R20_89	+	+	+	-	H	A	H	A	A	A	H	H	A	H	A	A
440	*S14_58	+	+	+	-	H	H	H	H	H	A	H	A	A	H	H	H
441	*S14_1.0	-	+	-	+	H	H	A	H	H	A	H	A	A	A	H	H
442	*T14_53	+	+	+	-	H	H	A	A	A	H	H	H	A	A	H	A
443	*T14_88	+	+	+	-	A	A	H	A	A	H	H	A	A	H	H	A
444	*T14_1.6	-	+	-	+	A	H	A	H	H	A	A	H	H	A	A	H
445	*T18_5f	520	both	520	540	H	A	H	H	H	-	A	H	A	H	A	-
446	*T18_56	+	+	+	-	H	A	H	A	H	A	A	A	H	H	-	H
447	*U15_46	+	+	+	-	A	H	A	A	H	A	A	A	A	H	A	A
448	*U15_54	+	+	+	-	H	H	H	A	A	A	A	H	H	A	A	A
449	*U15_75f	750bp	both	750	770	A	H	-	H	A	H	A	H	A	H	A	H
450	*V8_0.5	+	+	+	-	A	H	A	A	A	A	A	A	A	A	H	H
451	*V8_83	+	+	+	-	H	H	H	A	A	H	H	H	A	H	A	H
452	*V15_35f	350	both	350	340	H	H	A	A	A	H	H	H	A	A	A	A
453	*V15_54	+	+	+	-	H	A	A	A	A	A	A	-	A	H	H	H
454	*V15_1.0	+	+	+	-	A	H	A	A	H	H	A	H	H	A	A	H
455	*W5_34	+	+	+	-	A	H	A	H	H	H	H	H	H	A	A	H
456	*W5_6f	610bp	both	610	590	A	A	H	H	H	H	H	H	H	H	A	H
457	*W5_66	+	+	+	-	A	H	H	A	A	A	H	A	H	A	H	H
458	*W5_7f	800bp	both	800	700	H	H	H	A	A	H	H	H	A	H	H	H
459	*W6_24f	240bp	both	240	230	A	A	H	A	H	H	A	H	H	H	H	A
460	*W6_26	+	+	+	-	A	H	A	A	A	A	H	A	H	-	A	H
461	*W6_61	+	+	+	-	A	H	A	A	A	A	H	H	H	H	A	H
462	*W6_8f	both	both	770	800	A	A	A	A	A	H	A	H	H	A	A	A
463	*X8_25	-	+	-	+	A	A	A	H	A	H	A	H	A	A	H	H
464	*X8_29	+	+	+	-	H	H	A	H	A	H	H	A	A	H	A	A
465	*X8_47	+	+	+	-	H	H	H	A	A	H	A	H	A	H	H	H
466	*X8_5f	both	both	490	500	H	A	H	H	H	H	H	H	H	A	H	H
467	*Y14_46	-	+	-	+	A	H	H	A	H	A	A	H	H	A	A	A
468	*Y15_18	+	+	+	-	H	H	A	A	A	A	-	A	A	H	H	A
469	*Y15_69	+	+	+	-	H	H	A	H	H	A	-	A	A	A	H	H
470	*Y15_73	+	+	+	-	H	A	A	A	H	H	-	A	A	H	A	A
471	*Y15_1.1f	both	both	1.18	1.13	A	H	A	H	H	A	-	H	H	H	H	A
472	*Z18_18	+	+	+	-	A	A	A	H	A	H	-	H	A	A	A	A
473	*Z18_48	-	+	-	+	H	A	H	H	H	H	A	H	H	H	A	A
474	*Z18_52	+	+	+	-	A	H	A	A	A	H	A	H	H	H	A	H
475	*Z18_1.6	+	+	+	-	A	A	A	H	A	A	A	A	H	H	A	H
476	*MDHs		+	slow	fast	A	A	A	H	H	A	H	A	H	A	A	A
477	*mA8	166bp	both	166	179	-	H	A	H	-	A	A	A	A	H	A	H
478	*mA43	143bp	both	143	128	A	A	H	H	H	A	A	A	H	H	H	H
479	*mA14	230bp	both	230	222	A	H	H	A	A	A	A	H	H	A	A	H
480	*stsC9_35	+	+	+	-	A	H	H	H	H	H	-	A	H	H	A	H
481	*stsQ4f	650bp	both	650	980	H	H	A	A	A	A	A	A	A	H	H	H

all

482	*stsQ16_6f	580	both	580	610	H	A	A	A	A	A	H	H	A	H	A	H
-----	------------	-----	------	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---

H	H	H	H	H	H	H	H	A	A	H	H	A	A	A	A	H	A	H	A	H	A	H
H	A	H	H	A	A	A	H	H	A	A	H	A	A	-	H	A	A	A	H	A	H	A
H	A	H	A	-	H	A	A	H	A	A	H	A	H	-	H	A	H	-	-	-	-	-
A	H	H	H	A	A	A	H	A	A	H	H	H	A	A	A	H	A	A	A	H	H	H
H	A	H	A	A	A	A	H	A	A	H	A	H	A	A	A	H	H	H	H	H	H	A
H	A	H	H	A	A	A	H	H	A	A	H	A	A	A	H	A	A	A	H	A	A	A
H	A	H	H	A	H	A	A	A	A	H	H	A	H	A	H	A	A	A	H	A	A	H
A	H	A	A	H	A	H	A	H	H	A	A	H	H	A	H	A	H	A	A	A	H	H
A	H	A	A	H	A	A	H	H	H	H	H	-	H	H	H	H	A	H	H	H	H	A
-	-	H	-	H	H	A	A	A	A	A	A	H	A	A	A	A	H	H	A	A	H	H
H	H	A	A	H	A	A	A	A	A	H	A	H	A	A	A	H	A	H	H	H	A	H
A	A	H	A	H	A	-	H	H	A	-	A	H	H	H	H	H	H	H	H	-	A	A
H	A	A	A	A	H	-	A	H	A	-	H	A	H	A	H	A	H	H	A	A	H	H
A	A	H	A	A	H	-	H	H	A	-	H	H	H	H	H	H	H	H	A	H	A	A
H	A	A	H	H	A	-	A	H	H	-	H	A	H	H	A	A	A	H	A	H	A	A
H	H	A	A	A	A	A	A	A	A	H	H	H	H	A	A	A	A	A	A	A	H	H
A	A	H	H	H	H	H	H	H	A	A	A	A	H	H	H	H	H	H	H	A	A	A
A	A	H	H	H	A	A	H	H	A	A	H	A	A	A	H	A	A	A	H	A	A	H
A	H	-	A	A	A	A	H	A	H	A	A	H	A	A	H	A	H	A	A	A	A	H
H	H	A	A	A	-	H	A	A	A	A	H	A	-	A	A	A	H	A	A	H	A	H
A	H	A	H	A	A	H	H	H	A	A	A	A	A	A	H	A	A	A	H	A	A	A
A	A	A	H	A	A	H	A	H	A	A	A	A	H	H	H	H	H	H	H	H	H	H
H	H	A	A	A	H	H	A	A	A	A	H	A	H	A	A	H	H	H	A	A	A	A
H	A	H	A	A	A	H	A	H	H	A	A	H	H	H	A	A	H	H	A	H	A	A
H	H	A	H	H	A	A	H	H	H	H	H	A	A	H	A	H	H	H	A	A	A	A
H	A	H	A	A	H	A	A	H	A	H	H	A	H	H	A	H	A	A	H	A	A	H
A	A	H	H	H	A	A	H	H	A	A	H	A	A	A	H	A	A	A	H	A	A	H
-	A	-	-	A	A	A	H	H	A	A	H	A	H	H	H	H	H	A	-	H	A	H
H	A	A	A	A	A	H	H	H	A	A	A	A	A	A	A	H	A	A	A	A	H	H
H	H	A	H	H	A	H	A	H	-	H	H	H	H	H	H	H	H	H	H	H	A	H
A	A	-	A	H	H	A	H	A	A	A	A	A	A	H	A	A	H	A	A	H	A	H
H	A	A	H	H	A	A	H	H	A	A	H	A	H	H	H	H	H	H	H	H	A	H
A	A	H	A	H	A	H	H	H	A	H	A	H	H	H	H	H	H	H	H	H	A	A
A	H	H	H	H	A	A	A	H	A	H	H	A	H	A	A	A	A	A	H	H	H	H
H	A	A	H	H	A	A	H	H	A	A	A	A	A	A	A	A	A	A	H	H	A	A
H	A	H	H	H	A	H	H	H	H	H	H	A	H	H	A	A	A	H	A	A	H	H
H	H	A	H	H	A	A	A	A	A	H	H	H	H	H	H	A	A	H	H	A	-	A
A	H	H	A	H	A	H	H	A	A	H	H	H	A	H	A	A	H	H	A	H	A	A
A	H	A	A	A	A	H	A	A	A	H	A	H	A	A	H	-	H	A	H	A	A	H
A	H	H	A	A	A	H	A	H	A	H	H	H	A	H	A	A	H	H	A	H	A	H
A	A	A	H	A	H	A	H	A	A	H	A	H	A	H	A	H	A	A	A	A	H	A
A	A	A	H	H	A	H	A	H	A	H	H	A	A	A	H	A	A	A	A	A	H	A
H	A	H	A	A	A	H	A	H	A	H	A	H	H	H	A	H	A	A	H	H	A	A
-	H	A	H	A	A	A	H	H	H	-	H	H	H	A	H	A	A	A	A	H	A	A
A	H	H	A	H	A	H	H	A	A	H	H	H	A	H	A	A	H	H	A	H	A	A
A	H	A	H	H	A	H	H	H	H	A	A	H	A	H	A	A	H	H	A	H	H	A
A	H	H	H	H	H	A	A	A	A	A	A	H	H	A	A	A	A	A	H	A	H	A
H	H	A	A	A	H	A	A	H	H	H	H	H	H	A	A	A	A	H	A	H	H	A
H	A	A	H	H	H	A	H	H	H	A	H	A	H	A	H	H	H	A	-	H	H	A
A	A	A	H	A	A	A	H	A	A	H	A	H	H	A	A	H	-	A	H	A	H	A
H	H	A	H	H	A	H	A	H	H	A	A	A	A	A	A	A	A	A	A	A	H	H
A	A	H	H	A	A	A	A	H	H	H	H	H	A	A	H	H	A	A	H	A	A	A
H	A	-	A	H	A	H	A	H	A	H	H	H	H	A	A	A	H	-	H	A	H	A
H	H	-	A	A	H	H	A	H	H	A	A	H	A	A	A	H	H	A	H	A	A	H
A	H	A	A	H	H	H	A	H	A	A	A	A	H	H	H	A	H	A	A	A	A	H
A	H	A	A	A	A	H	A	A	A	H	A	H	A	A	H	H	H	A	H	A	A	H
A	H	H	A	H	A	A	A	H	A	H	H	H	H	H	H	A	A	H	H	H	H	A
H	H	A	A	H	H	A	A	H	H	A	H	A	A	H	H	A	H	A	A	H	A	H

A	A	A	H	H	A	H	A	A	A	H	H	A	H	A	A	A	H	H	A	H	H	A
-	A	H	A	H	H	-	A	H	A	A	H	A	A	A	A	H	H	H	H	A	H	H
H	H	A	H	A	H	H	A	A	H	H	A	A	H	A	A	A	A	A	A	A	H	H
A	A	H	A	H	A	H	A	H	A	H	-	H	H	H	H	A	A	A	H	H	A	A
A	H	A	H	A	H	H	A	H	A	H	A	H	H	A	A	A	H	A	H	A	A	A
H	A	A	A	A	H	A	H	H	H	A	H	H	A	H	H	A	A	H	A	A	A	H
H	A	A	A	A	H	H	A	H	H	A	A	H	H	H	H	A	H	A	H	A	A	H
A	A	H	A	H	A	A	A	A	A	H	A	A	A	H	H	H	A	H	H	A	A	H
H	A	H	H	H	H	A	H	A	H	A	H	A	H	A	A	A	A	A	H	H	H	A
H	A	H	A	H	A	A	A	H	A	A	H	A	H	A	H	H	H	H	A	A	A	H
A	A	A	A	A	H	A	A	A	A	H	H	A	H	A	A	H	A	A	H	A	H	A
A	H	H	A	A	A	H	H	A	H	A	A	H	A	A	H	H	A	A	H	H	A	H
A	H	A	A	H	H	A	H	H	A	A	H	A	-	A	A	H	A	H	A	A	A	A
A	H	H	H	H	H	A	A	A	A	H	A	H	H	H	H	H	A	H	A	A	H	A
A	A	H	A	A	H	H	H	H	H	A	A	A	H	A	A	H	A	H	A	H	A	H
A	H	A	H	A	H	A	A	H	A	A	A	A	A	A	H	H	A	H	A	H	A	H
A	H	A	A	A	H	H	H	A	A	A	A	H	H	A	H	A	A	A	H	A	H	A
A	H	H	H	H	H	A	A	A	A	A	A	A	A	A	A	H	H	A	A	A	A	A
A	H	H	H	A	A	H	A	H	A	H	A	A	H	A	A	A	A	H	H	A	A	A
H	A	H	A	A	A	A	A	A	A	A	A	H	H	A	A	A	A	-	H	H	H	H
H	A	H	A	A	H	H	A	A	A	A	A	H	H	H	A	A	H	-	A	A	A	H
A	A	A	A	H	H	H	A	A	H	A	A	H	H	H	H	A	-	-	H	H	A	A
H	A	H	A	H	H	A	A	A	H	A	A	H	H	H	A	H	A	-	H	H	A	A
A	A	H	H	H	H	H	A	A	H	H	H	-	H	H	H	H	A	-	H	H	A	H
H	H	H	H	H	A	A	H	H	H	A	H	H	A	A	H	A	H	H	H	H	H	H
H	H	A	H	H	A	H	A	H	H	A	A	A	A	A	A	A	A	A	A	A	H	H
H	A	A	A	A	H	H	H	H	A	H	H	H	H	H	H	A	A	H	H	H	H	H
H	A	H	A	H	A	H	H	H	H	H	H	A	A	H	A	A	H	H	A	A	H	A
A	A	H	H	A	A	A	A	H	H	H	H	H	A	A	H	H	A	A	H	A	A	A
H	H	A	A	A	A	A	H	A	H	A	H	H	A	H	H	A	A	H	H	A	A	A
A	A	H	H	H	H	H	A	A	A	A	A	A	A	A	H	H	A	A	H	A	A	A
A	A	H	A	A	A	A	A	H	A	H	A	A	A	A	A	A	A	H	H	A	A	H
-	H	H	H	H	A	A	H	A	A	H	H	H	A	A	A	H	A	H	A	A	H	H
H	H	A	A	A	A	A	A	H	A	H	H	A	H	A	A	A	H	A	H	A	H	H
A	H	H	H	A	A	A	H	A	A	H	A	A	A	A	H	H	H	H	H	A	H	H
A	H	A	H	A	A	A	H	H	H	H	H	H	A	A	H	H	A	A	H	A	A	A
A	H	A	H	A	H	A	H	A	H	H	H	A	A	A	H	H	H	H	A	A	H	H
H	A	H	A	H	H	A	A	H	A	H	H	H	A	H	H	H	A	H	H	H	H	H
H	H	A	A	H	H	H	A	H	H	A	H	A	A	H	H	A	H	A	A	H	A	H
A	H	H	H	H	A	A	H	A	H	A	A	A	H	A	H	H	A	A	A	A	A	A
A	H	A	A	A	A	H	A	A	H	H	H	A	H	H	A	H	A	H	A	A	H	A
H	A	H	H	A	A	H	H	A	H	A	A	A	A	A	H	A	A	A	H	A	A	A
H	A	-	H	H	H	A	H	H	A	H	A	A	A	A	A	A	H	A	A	H	H	A
H	A	-	A	H	A	H	H	A	H	A	H	A	H	H	H	H	H	H	H	A	H	H
A	H	-	H	A	A	H	H	A	H	H	A	H	A	H	A	H	A	A	H	H	A	H
A	A	H	A	A	H	A	H	A	H	H	A	H	A	-	A	A	H	A	A	A	H	A
A	H	H	A	H	A	H	H	A	A	H	H	H	A	-	A	A	H	H	A	H	A	A

A	H	A	A	H	H	H	H	H	A	H	H	A	H	-	A	A	H	H	A	A	H	H
A	H	H	H	H	H	H	A	A	A	H	H	H	H	-	A	H	H	H	H	H	A	A
H	A	-	-	A	H	A	A	A	-	A	A	A	H	A	H	-	A	A	H	A	H	H
-	A	-	A	H	A	A	A	H	-	H	A	A	A	A	-	-	H	A	H	H	H	A
H	A	H	A	H	H	H	H	H	A	H	A	A	A	H	H	A	A	A	H	A	H	A
A	A	A	A	H	A	A	H	A	A	H	A	H	A	H	A	A	H	H	A	A	H	A
H	A	H	H	A	H	A	A	H	A	A	H	A	H	A	H	H	A	A	A	A	A	H
A	H	A	A	H	H	H	H	H	A	H	H	A	H	A	A	A	H	H	A	A	H	H
H	H	H	A	A	H	H	H	-	H	-	H	H	A	A	H	A	H	H	H	H	H	A
A	H	A	H	A	H	H	H	A	A	A	A	A	H	H	H	-	H	H	A	A	A	H
A	H	A	A	A	H	A	A	A	A	H	A	H	A	H	H	H	H	H	A	A	A	H
H	A	A	A	H	A	A	A	A	A	H	A	H	A	A	A	H	A	H	H	H	A	H
A	H	H	H	H	H	H	A	A	A	A	A	H	H	A	A	H	A	A	H	H	H	H
A	H	A	H	A	H	H	H	A	H	A	H	H	H	A	A	A	A	H	H	A	H	A
H	A	A	A	A	H	H	H	H	A	H	H	H	H	H	H	A	A	H	H	H	A	H
H	A	A	A	A	H	H	H	H	A	H	H	H	H	H	H	A	A	H	H	H	A	H
A	H	A	A	A	H	A	A	A	A	A	A	H	A	A	H	H	H	A	H	H	A	A
A	A	H	H	H	A	A	A	A	H	A	H	A	H	H	A	H	A	A	A	A	H	A
H	H	H	A	A	H	H	A	A	A	A	H	A	H	A	A	H	H	H	A	A	A	A
A	A	A	A	H	A	A	H	A	A	H	H	H	A	H	A	A	H	H	A	A	H	A
H	H	H	A	H	H	H	A	A	H	H	A	H	A	A	A	H	A	H	A	A	H	A
H	H	A	H	H	A	A	A	A	A	H	H	H	A	H	H	A	A	A	H	A	H	A
A	H	A	A	A	H	A	A	A	A	A	A	H	A	A	H	H	H	A	H	H	A	A
A	A	H	H	H	A	A	A	A	H	A	H	A	H	H	A	H	A	A	A	A	H	A
H	H	H	A	A	H	H	A	A	A	A	H	A	H	A	A	H	H	H	A	A	A	A
A	A	A	A	H	A	A	H	A	A	H	H	H	A	H	A	A	H	H	A	A	H	A
H	H	H	A	H	H	H	A	A	H	H	A	H	A	A	A	H	A	H	A	A	H	A
H	H	A	A	A	H	H	A	A	A	A	H	A	A	A	A	H	H	H	A	A	H	A
A	H	H	H	A	A	H	A	A	A	A	A	A	A	A	A	H	H	H	A	A	A	A
H	H	A	A	A	H	H	A	H	A	H	A	H	A	H	H	A	A	H	H	H	A	A
A	H	H	A	A	H	H	A	A	A	H	H	H	A	H	H	A	A	A	H	A	A	A
H	A	H	A	H	A	H	A	H	H	H	A	H	H	H	A	H	H	H	A	H	A	A
A	A	H	A	H	A	H	H	H	A	H	A	H	H	H	H	H	H	H	H	H	A	A
H	A	A	A	A	A	A	A	H	A	H	H	H	H	H	A	A	A	A	-	H	H	A
H	A	H	A	H	H	A	A	A	H	A	A	A	H	A	A	H	A	H	A	H	A	H
A	H	-	H	H	-	H	-	A	A	A	A	H	H	A	H	H	A	H	A	H	H	H
A	H	H	A	H	A	H	H	A	H	H	A	H	H	A	A	H	H	A	A	A	A	H
H	H	A	H	H	H	A	H	A	A	A	A	A	A	A	A	H	H	H	A	H	A	H
H	H	A	H	H	H	A	H	A	A	A	A	A	A	A	A	H	A	H	H	H	A	A
A	H	A	H	A	H	H	A	H	A	H	A	H	H	A	A	A	H	A	H	A	A	A
A	A	H	A	A	H	A	A	A	A	A	H	A	A	H	A	A	H	A	H	A	A	H
A	A	H	H	A	A	A	H	H	H	H	H	H	A	A	A	H	A	A	H	A	A	A

H	A	H	H	A	H	A	H	A	H	H	H	A	A	H	A	H	H	H	A	A
H	A	A	H	A	A	H	A	A	H	H	A	H	A	H	H	A	H	H	H	H
A	H	H	H	H	H	H	A	A	A	H	H	H	H	A	A	H	H	H	A	A
A	H	H	-	A	H	H	H	A	A	-	H	A	H	A	H	-	H	H	A	A
A	A	H	H	H	A	A	H	H	H	A	A	H	A	H	H	H	A	A	H	A
A	-	H	-	H	A	A	H	A	H	H	H	H	A	A	A	H	A	A	H	A
H	A	H	H	H	A	A	A	H	H	-	A	H	A	H	H	H	A	A	H	A
A	A	H	H	H	H	H	H	A	H	-	H	H	H	H	H	H	A	A	A	H
A	H	-	H	A	A	A	A	A	-	-	H	A	H	A	A	H	H	H	A	H
H	H	A	A	A	H	A	H	H	H	H	H	A	H	A	H	A	A	H	A	A
A	H	A	H	H	A	A	A	A	A	H	A	H	H	A	H	A	H	H	A	H
A	A	H	A	H	A	H	H	H	A	A	H	H	H	H	A	H	H	-	A	A
A	H	H	A	H	A	H	H	H	A	A	H	A	H	H	A	H	H	H	A	A
A	H	H	H	A	A	H	H	H	A	H	H	A	A	A	H	H	A	A	A	H
H	A	A	H	H	H	H	H	H	H	H	A	H	A	A	H	A	A	A	H	A
A	H	H	A	H	H	H	H	A	A	H	H	A	A	A	H	H	A	H	A	A
-	H	A	A	H	H	H	H	A	H	A	A	A	H	H	H	A	H	A	A	A
-	A	-	H	A	H	A	H	H	A	A	H	A	H	H	H	A	A	H	H	A
A	H	A	H	A	H	A	H	A	A	H	A	A	A	A	H	H	H	A	H	H
A	H	H	A	H	A	A	H	A	A	H	H	H	A	H	A	A	H	A	A	A
A	A	H	A	A	H	A	A	A	H	H	H	H	-	H	H	H	H	A	A	H
A	A	A	H	A	A	H	H	A	A	H	H	A	-	A	A	A	H	A	A	H
H	H	A	A	A	A	H	H	H	A	H	A	H	A	A	H	A	H	H	H	A
A	H	H	A	A	H	H	H	H	H	-	H	A	H	H	A	H	A	A	A	H
H	-	-	-	A	H	A	H	-	H	-	H	A	H	A	A	A	H	H	A	A
A	A	-	-	A	H	H	H	-	A	-	A	A	H	A	A	H	A	H	A	H
H	H	-	H	A	A	A	A	A	-	H	A	A	A	A	A	-	-	A	A	H
A	A	A	H	A	A	A	A	H	A	H	H	A	A	A	A	H	A	A	A	H
H	H	H	H	H	H	A	H	A	A	A	A	A	A	A	A	H	H	H	A	H
H	A	H	A	A	A	H	A	A	A	A	A	H	H	H	A	H	A	A	A	A
H	A	A	A	A	A	A	A	A	A	A	H	H	H	H	A	A	-	A	H	A
H	A	A	A	A	A	A	A	A	A	H	H	H	H	H	A	A	-	A	H	A
A	H	H	H	A	H	H	H	H	A	H	H	A	H	H	A	-	-	A	A	A
A	H	A	A	A	A	H	A	A	-	H	H	A	H	A	H	H	A	H	H	H
A	H	A	A	A	A	H	A	A	-	A	A	-	-	-	A	A	-	A	H	H
A	H	A	A	H	H	H	A	H	A	A	A	A	H	H	A	A	H	A	A	H
A	H	H	A	A	H	H	A	A	A	A	A	A	A	H	A	A	H	A	H	A
A	A	H	A	A	H	H	A	A	A	A	A	A	H	A	H	A	A	H	H	A
A	A	A	A	A	A	A	A	H	A	A	A	H	H	A	H	H	H	A	H	A
H	H	A	A	A	H	H	A	H	A	H	H	A	A	H	A	A	A	H	H	H
H	H	A	A	A	H	H	H	H	A	H	A	H	A	A	H	A	H	H	H	A
A	A	H	H	H	A	A	H	A	H	A	A	H	H	A	H	H	H	A	A	A
H	A	A	A	A	H	A	H	H	H	A	A	H	A	H	H	A	A	A	A	H
H	A	H	A	A	H	A	A	H	H	H	A	A	A	A	H	H	A	H	H	A
A	H	H	A	A	H	A	A	H	A	A	A	A	A	A	A	-	H	H	A	A
A	A	A	A	H	A	A	H	A	A	A	A	H	A	A	A	A	H	H	H	A
A	A	A	A	A	A	A	A	A	A	A	A	A	H	A	H	H	H	-	A	A
A	H	H	A	A	H	H	H	A	A	H	A	H	A	A	H	H	-	A	H	A
A	H	H	H	A	A	H	A	-	A	-	A	A	-	A	A	A	A	H	A	A
A	H	A	H	A	H	H	H	A	A	A	A	H	H	A	A	A	H	A	A	H
-	A	H	A	H	A	A	A	H	A	A	A	H	A	A	H	H	H	A	A	H
-	A	A	H	H	A	H	A	A	A	A	A	H	A	A	H	H	H	A	A	H
-	A	A	H	H	H	A	A	H	H	A	A	A	H	A	A	A	A	H	H	A
H	A	A	H	A	A	H	A	A	A	H	A	H	A	H	H	A	H	A	A	H
A	H	A	A	A	H	H	H	H	A	A	H	A	A	H	A	A	A	H	A	A
H	H	H	A	H	H	H	A	H	H	A	H	H	A	H	H	A	H	H	A	H
A	A	H	A	A	A	H	H	A	A	A	H	A	A	H	A	A	A	H	A	H

H	A	H	H	A	H	A	A	H	A	A	H	A	H	A	H	H	A	A	A	A	H	
H	H	H	H	H	-	H	A	H	H	A	H	A	-	H	A	A	A	H	A	A	H	H
A	A	H	H	H	H	H	-	A	H	H	H	H	H	H	H	H	A	A	H	H	A	H
A	A	H	A	A	H	H	A	H	A	H	H	A	H	A	H	H	H	A	A	H	A	A
H	H	A	H	H	A	H	-	A	H	H	H	A	H	A	H	A	H	A	A	A	A	A
H	A	A	A	A	H	A	A	H	A	A	H	A	H	A	H	A	H	H	A	A	H	A
A	A	H	A	A	A	A	A	A	-	H	H	H	A	-	A	H	A	A	H	A	H	A
A	A	H	A	A	H	A	H	H	A	A	A	H	A	H	A	-	A	H	H	H	H	H
A	H	A	A	H	A	A	A	H	A	A	A	H	A	A	A	A	-	A	H	A	A	A
A	H	A	A	H	H	H	A	A	A	A	H	A	H	A	A	A	H	A	A	H	A	H
H	A	A	H	H	H	A	A	A	A	H	A	H	A	A	A	A	H	A	H	H	H	A
H	A	H	A	A	H	-	A	H	H	A	A	H	H	H	-	A	H	A	H	H	A	H
H	A	H	A	H	A	H	A	H	H	H	A	A	A	H	-	H	-	A	A	A	A	H
H	H	A	A	A	-	A	A	A	H	A	H	H	A	A	A	A	A	A	H	H	H	H
A	H	H	H	H	-	-	A	H	A	H	H	A	H	A	A	A	H	A	H	H	H	H
H	A	H	A	H	H	A	H	H	A	A	H	A	H	A	H	A	H	H	H	H	H	A
A	H	A	H	A	H	H	A	H	A	H	A	A	A	H	A	H	A	A	H	A	A	H
H	A	H	A	H	A	H	A	H	A	A	A	A	H	H	H	A	A	H	H	A	A	A
A	H	A	H	A	H	A	H	A	H	A	A	A	H	H	H	A	A	H	H	A	A	A
A	A	A	A	H	A	A	H	A	A	H	-	H	A	H	A	A	H	H	A	A	H	A
H	A	H	A	A	A	H	A	H	A	-	-	H	H	H	A	A	H	A	H	H	A	A
A	H	A	H	A	A	A	H	H	A	H	H	A	A	A	H	A	H	A	A	A	H	H
A	A	H	A	H	A	H	H	-	A	H	A	H	H	H	H	H	A	H	H	H	A	A
A	A	A	-	A	A	A	A	-	A	H	A	A	A	A	A	A	A	A	H	A	A	A
H	A	H	A	H	H	A	H	H	A	H	H	H	H	H	H	A	H	A	H	-	H	A
H	H	A	A	A	A	A	H	H	A	A	A	A	A	A	A	A	H	H	A	A	H	A
A	H	A	A	H	A	H	A	H	H	A	A	H	A	H	A	H	A	A	A	H	H	H
A	A	H	A	A	A	H	A	H	A	A	A	H	A	H	H	A	H	A	A	A	H	H
A	A	H	H	H	H	H	A	A	H	H	H	H	H	H	H	H	A	A	H	H	A	H
A	A	A	H	H	H	H	A	H	A	H	H	H	A	H	H	A	A	A	A	H	A	A
A	H	H	A	A	A	H	H	A	A	A	H	A	H	H	A	H	A	H	A	A	A	H
A	H	H	H	A	H	A	H	A	H	A	A	A	A	A	A	A	A	A	H	H	A	A
A	H	H	A	A	A	H	A	H	A	H	H	A	H	H	A	H	H	A	H	H	A	H
A	A	H	H	H	H	H	A	A	H	H	H	H	H	H	H	H	A	A	H	H	A	H
A	A	A	H	H	H	H	A	H	A	H	H	H	A	H	H	A	A	A	A	H	A	A
A	H	H	A	A	A	H	H	A	A	A	H	A	H	H	A	H	A	H	A	A	A	A
A	H	H	H	A	H	A	H	A	H	A	A	A	A	A	A	A	A	H	H	A	A	A
A	H	A	H	A	A	A	H	A	H	A	A	A	A	A	A	A	A	H	H	H	H	H
A	H	H	A	A	A	-	A	-	H	A	H	A	A	A	A	H	H	H	H	H	H	H
A	H	H	A	A	A	H	A	A	A	A	H	A	H	H	A	H	A	H	A	A	A	H
H	A	H	A	H	A	H	H	A	H	H	H	H	H	H	H	A	H	A	H	A	H	H
A	H	H	A	A	-	A	A	A	H	A	A	A	H	A	A	A	H	H	A	H	H	A
A	H	A	H	H	H	H	A	H	A	H	A	A	A	A	A	A	A	A	A	A	H	H
H	-	H	H	A	A	A	H	H	A	A	A	A	A	A	A	A	A	A	A	H	A	A
H	A	A	H	A	H	H	A	A	A	A	A	A	A	A	A	A	H	H	A	A	A	H
H	H	A	A	H	H	A	A	A	H	-	A	H	H	H	A	A	A	H	H	H	A	A
H	A	A	H	H	H	A	H	A	A	H	A	H	A	A	A	H	A	A	H	H	A	H
H	H	A	A	A	H	A	A	H	H	H	H	H	H	H	A	A	H	H	A	H	H	A
H	H	A	A	A	H	A	A	A	H	H	A	H	H	H	A	A	H	H	A	H	H	A
A	A	H	H	H	A	H	H	H	A	A	H	A	A	A	H	H	A	A	H	A	A	H
H	H	A	A	A	A	A	A	A	A	A	A	H	A	A	H	H	A	H	H	A	H	A
A	H	H	H	H	A	A	H	A	H	A	A	A	A	A	A	H	H	A	A	A	H	A
A	H	A	H	H	H	A	A	H	H	H	A	H	A	A	A	A	A	H	H	H	H	A
A	H	A	A	A	A	H	H	H	A	H	H	A	H	H	H	H	A	H	A	A	H	A
A	H	H	H	H	A	A	H	A	H	A	A	A	A	A	A	A	H	H	A	A	A	H
A	H	H	H	H	A	A	A	A	A	H	H	A	H	H	H	H	-	H	H	A	H	H

all

H	H	A	A	A	A	A	A	H	H	A	A	H	A	A	A	A	H	A	H	A	H	H
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

A	H	A	A	A	A	A	A	H	A	A	H	A	A	H	A	A	A	H	H	A	H	
H	A	H	A	A	A	H	H	A	A	H	A	A	H	H	H	A	A	H	A	A	H	H
-	A	H	H	A	H	A	H	A	A	A	H	H	H	A	-	H	A	A	H	A	A	-
A	H	H	A	A	A	H	H	H	A	H	A	A	A	H	H	H	H	H	A	A	H	H
H	A	A	A	H	H	H	A	H	A	A	H	H	H	H	A	A	A	H	H	A	H	A
A	A	H	A	A	-	H	H	A	A	H	A	H	H	A	H	A	A	H	A	A	H	H
A	H	A	H	H	H	A	H	H	A	H	A	A	H	H	A	A	A	H	H	H	A	A
A	A	H	H	A	H	H	A	A	A	H	H	A	H	H	A	H	A	A	H	H	H	H
A	A	A	A	H	H	A	H	H	A	H	H	A	H	A	H	H	A	H	A	A	H	H
A	H	A	H	A	A	A	A	H	H	A	H	A	A	H	H	A	H	A	A	A	A	A
A	A	H	H	H	A	-	A	H	A	H	H	A	A	H	A	-	H	A	H	H	H	H
A	A	H	H	H	A	-	H	H	H	A	H	A	H	A	H	-	A	A	H	A	A	A
H	A	A	A	H	A	-	A	H	A	A	A	A	A	A	H	-	A	H	A	H	A	A
H	H	H	H	H	A	-	H	A	H	H	A	H	H	H	H	-	H	A	A	A	A	A
H	A	A	A	H	A	A	H	H	A	H	H	H	A	A	H	A	A	A	A	H	A	A
A	H	H	H	A	H	H	A	A	H	A	A	A	H	H	A	H	-	H	H	A	H	H
A	A	H	A	A	A	H	H	A	A	H	A	H	A	H	H	A	H	A	A	H	H	H
A	A	H	H	H	A	H	A	A	H	A	H	A	A	H	H	A	H	H	-	H	A	A
H	H	H	H	H	H	-	H	A	H	A	H	H	A	H	A	A	H	A	A	A	A	A
A	H	H	H	H	H	A	H	H	A	H	H	H	A	H	A	A	H	A	A	A	A	A
H	H	H	A	A	A	A	H	H	A	H	A	A	H	A	H	A	H	H	A	A	H	H
H	H	H	A	A	A	A	H	H	A	H	A	A	H	A	H	A	H	H	A	A	H	H
A	A	A	H	H	H	H	H	A	H	A	H	H	A	H	H	A	H	H	H	A	A	A
A	H	H	H	A	A	H	H	A	H	A	A	H	A	H	A	A	H	A	A	A	A	A
A	A	H	H	A	H	H	H	A	H	A	H	H	A	H	H	A	H	H	A	A	A	A
H	A	H	A	A	A	H	A	H	A	H	H	A	H	A	H	A	A	A	A	A	A	A
H	H	H	H	H	H	A	H	H	A	A	H	A	A	H	A	A	H	H	H	H	A	A
A	A	A	H	H	H	A	A	A	H	A	A	H	H	H	H	A	H	H	A	A	A	A
A	A	A	H	H	H	A	A	A	H	A	A	H	H	H	H	A	H	H	A	A	A	A
H	A	H	A	H	H	H	A	A	H	A	A	H	A	A	H	H	H	H	H	A	A	A
A	H	H	H	H	H	A	H	H	H	A	A	H	H	A	A	H	A	H	H	H	A	A
H	A	H	A	A	A	H	A	A	H	A	H	H	A	A	H	H	A	A	A	A	A	H
H	A	H	A	H	H	A	A	A	H	A	H	A	A	A	H	A	A	H	H	A	A	A
H	H	H	A	H	H	A	H	H	H	A	H	A	H	A	A	A	H	H	-	A	H	A
H	H	H	A	H	H	A	A	A	A	A	H	A	A	A	A	H	H	H	H	H	A	A
H	H	A	A	A	A	A	H	H	H	A	A	H	A	H	A	H	H	-	H	H	H	H
A	A	A	A	A	A	A	H	A	A	H	A	H	A	A	H	H	A	A	A	H	A	H
A	H	A	H	H	A	A	A	H	A	A	A	A	H	H	H	A	A	A	A	H	A	H
H	H	-	H	H	H	A	H	A	A	-	A	A	H	A	H	A	H	A	H	A	H	H
H	H	H	A	A	H	H	A	H	A	H	A	H	H	A	H	A	H	H	A	A	A	H
A	H	A	H	H	A	H	H	A	H	H	A	H	H	A	H	A	A	A	H	H	A	A
A	A	A	A	A	H	A	A	H	A	A	H	H	A	A	A	A	A	H	H	H	A	H
A	A	A	A	H	H	H	A	H	H	A	A	H	A	H	H	A	H	H	A	H	H	H
A	H	H	H	H	H	A	A	H	H	H	H	A	A	A	H	H	A	A	H	A	A	A

A	A	A	H	H	A	A	H	A	A	H	H	A	H	H	A	A	A	A	A	A	A	A	
H	H	H	H	H	H	A	H	A	A	H	H	H	H	A	H	A	A	H	H	A	A	A	A
H	A	-	A	A	A	H	H	A	A	H	A	A	A	H	H	A	H	A	A	A	H	H	
A	A	A	H	A	A	H	-	H	-	H	A	H	H	H	A	A	H	H	H	A	H	H	
A	H	A	H	H	H	A	A	H	A	H	A	A	A	A	A	A	A	A	H	-	H	H	
A	H	H	H	H	H	A	H	H	H	A	H	A	H	A	H	H	A	A	A	A	A	H	
H	H	A	A	H	A	H	H	H	H	H	A	H	H	A	A	H	A	H	H	H	H	A	
A	A	A	H	H	A	A	H	A	A	H	H	A	H	H	A	A	A	A	A	A	A	A	
H	H	A	H	H	H	H	A	A	H	A	H	H	A	H	H	A	H	A	A	A	A	H	
H	H	A	A	H	H	A	A	H	A	H	A	H	H	A	A	A	A	A	A	A	A	A	
A	A	A	A	H	A	A	H	A	H	A	A	H	H	A	A	A	H	H	A	A	A	A	
H	A	H	A	H	H	A	A	A	H	A	H	A	A	A	H	A	A	H	H	A	A	A	
A	H	H	A	A	H	H	H	H	A	A	H	H	A	A	A	A	H	A	A	A	H	H	
A	A	H	H	A	H	H	A	A	A	H	H	H	H	H	H	A	A	H	H	H	H	H	
H	H	H	A	A	H	A	H	H	H	H	H	H	A	H	A	H	H	H	H	H	H	H	
A	A	A	-	H	H	H	H	A	A	A	A	H	H	H	A	H	H	H	A	H	A	A	
H	A	A	-	H	H	A	A	A	H	A	H	H	A	A	A	H	H	H	H	H	A	A	
H	A	A	H	A	A	A	H	H	A	A	H	H	A	A	H	H	A	A	H	H	H	H	
A	H	A	A	H	A	A	H	A	H	A	A	H	H	A	-	A	H	A	A	A	A	A	
H	H	A	H	H	H	A	A	H	A	H	A	H	H	A	H	A	H	A	H	A	A	-	
H	H	A	H	A	A	A	H	H	A	H	A	A	A	H	H	A	H	H	A	A	A	H	
A	H	A	H	A	A	-	A	H	H	A	H	H	A	H	H	A	H	A	A	A	H	H	
A	A	A	H	A	H	-	A	A	H	H	A	A	H	H	A	H	A	H	H	A	A	A	
H	H	H	A	A	H	-	A	H	H	H	H	H	H	H	A	H	H	A	A	A	A	H	
A	A	A	A	A	H	A	H	H	H	H	A	H	H	H	A	A	A	A	H	H	H	H	
H	A	H	A	H	A	A	H	A	A	A	A	A	H	A	A	A	A	A	A	A	A	H	
A	A	A	A	A	H	A	H	H	H	H	A	H	H	H	A	A	A	A	H	H	H	H	
H	H	A	A	A	H	A	A	A	H	A	H	H	H	A	A	H	H	A	H	A	H	H	
A	H	A	H	H	H	A	H	A	H	A	A	H	A	H	A	A	H	H	H	A	H	H	
H	H	H	A	A	H	A	H	H	H	H	H	H	H	A	H	A	A	H	H	H	H	H	
A	H	H	H	A	H	A	A	A	H	H	H	H	H	H	A	A	H	A	H	A	H	H	
A	H	A	H	A	A	A	A	H	H	A	H	H	A	H	H	A	H	A	A	A	H	H	
A	H	A	A	A	H	A	H	H	A	H	A	H	A	H	H	A	A	H	A	H	A	A	
H	-	A	A	H	-	H	H	H	A	A	A	A	A	A	H	H	A	H	A	H	A	-	
A	A	H	H	H	-	H	A	H	A	H	H	A	A	H	A	-	H	A	H	H	H	-	
H	H	H	H	H	-	A	A	A	A	H	A	A	H	A	-	A	H	A	A	A	A	-	
A	H	A	A	A	A	H	A	H	H	A	H	H	H	A	H	A	A	H	H	A	H	H	
-	A	H	A	H	A	A	A	A	A	H	A	A	A	A	H	A	H	H	H	A	A	A	
A	H	A	A	H	A	A	A	A	A	H	H	A	A	H	A	A	H	A	A	A	H	H	
A	A	A	H	H	A	H	H	A	A	H	H	H	H	A	H	A	A	A	H	A	A	A	
H	A	A	A	A	H	H	H	H	H	H	H	H	A	A	H	H	H	A	H	A	H	A	
A	A	H	H	-	H	A	H	H	A	H	A	A	H	H	H	H	A	A	H	A	A	A	
H	H	H	H	A	H	H	A	H	A	A	A	A	A	H	A	H	H	A	H	A	A	H	
A	H	A	-	H	A	A	A	H	A	A	A	A	H	H	H	A	A	A	A	H	A	A	

all

H	H	A	A	H	H	A	H	A	H	A	H	H	A	H	A	A	H	H	A	A	H	H
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

H	H	A	A	H	A	H	A	A	A	H	A	A	A	H	H	A	H	A	H	H	H
A	A	A	H	A	A	A	H	H	H	H	A	H	A	H	A	A	A	H	A	H	A
A	H	A	-	A	A	H	H	A	A	A	H	H	A	A	H	A	H	A	A	H	A
H	H	H	H	A	A	A	H	H	A	H	H	A	H	A	H	H	H	A	H	A	A
A	H	H	A	A	A	A	H	H	A	A	A	H	A	A	A	H	H	A	A	H	H
A	A	A	A	A	A	A	H	H	H	H	A	H	A	H	H	A	A	-	H	A	H
H	A	A	H	H	A	A	H	A	A	H	H	H	H	H	A	A	H	-	H	H	H
A	H	H	A	H	H	H	H	H	H	H	A	H	H	H	A	A	-	H	A	H	H
H	H	H	H	H	H	A	A	A	A	H	A	H	A	H	A	A	H	-	H	A	H
H	H	H	H	A	H	A	A	H	H	A	A	A	H	A	A	H	A	H	A	A	A
H	H	H	H	A	H	A	A	H	A	H	A	A	H	A	A	H	A	H	H	A	A
A	H	A	H	A	A	H	A	A	H	H	H	H	A	H	H	A	H	H	A	H	A
H	H	A	A	A	A	H	H	A	A	H	H	H	A	H	H	A	H	H	A	H	A
A	H	A	A	H	H	A	H	H	A	H	A	A	H	A	A	H	H	A	A	A	H
A	A	H	A	A	A	A	H	A	A	A	A	A	H	A	A	A	A	H	A	H	A
A	H	H	A	A	A	H	H	A	H	H	H	A	H	A	H	H	A	H	H	A	A
H	A	A	H	H	A	A	H	A	A	A	A	H	-	H	A	A	H	A	A	A	H
A	A	A	H	A	A	H	H	H	H	H	A	H	H	H	H	A	A	H	A	A	H
A	H	H	A	H	A	A	H	A	A	A	-	H	A	A	H	A	-	A	A	A	-
A	H	H	H	A	H	H	H	A	H	-	A	H	H	H	A	A	A	H	H	A	H
H	A	A	A	H	A	H	A	H	A	-	A	A	H	H	A	H	A	A	A	A	H
A	A	H	A	-	H	A	A	A	H	A	-	A	A	H	A	H	A	H	H	A	H
H	H	H	H	H	A	H	A	H	H	A	H	A	H	A	H	H	A	A	A	A	H
A	H	H	H	A	H	H	H	A	H	A	H	H	H	H	A	A	A	H	H	A	H
H	H	A	A	A	A	H	A	A	H	H	H	H	H	H	A	A	H	H	A	A	H
H	H	A	A	H	A	A	H	A	A	H	H	H	H	H	A	A	H	A	H	H	H
A	A	A	H	A	A	H	H	H	H	H	A	H	H	H	A	A	H	A	A	H	A
H	A	H	A	H	A	A	-	H	A	A	H	A	A	A	H	H	A	H	H	-	A
A	A	H	A	H	H	A	A	H	A	H	A	H	H	H	A	A	H	H	A	A	A
-	-	-	-	A	H	A	H	A	A	H	H	A	A	H	A	A	-	H	H	H	-
H	A	-	H	A	A	H	H	H	H	A	A	H	H	H	A	A	A	A	H	H	A
A	A	H	A	A	H	A	H	H	H	H	A	H	A	H	H	A	H	H	A	A	H
A	H	A	H	A	-	H	-	A	H	H	H	H	A	H	H	A	H	H	A	H	A
H	H	H	H	A	H	H	A	H	-	-	A	A	H	H	A	A	A	H	H	A	A
H	A	H	A	H	A	A	H	H	A	A	H	H	A	A	H	H	A	H	H	A	A
A	H	H	A	A	H	A	H	H	A	A	A	A	A	A	H	H	A	A	H	A	A
A	A	A	H	H	A	A	H	A	A	A	H	H	A	A	A	H	A	H	A	H	A
A	H	A	H	A	H	A	H	A	A	A	H	A	H	H	A	H	H	A	H	A	H
A	H	A	H	H	H	A	H	H	H	H	A	A	H	H	H	A	H	H	A	A	A
A	H	A	H	A	H	A	H	H	A	A	H	A	H	H	A	H	H	A	A	A	H
H	H	A	H	A	H	A	A	A	A	A	H	A	A	A	A	H	A	A	A	A	H
H	H	A	A	A	A	H	A	H	H	A	H	H	H	H	H	H	H	A	A	H	A
A	A	A	-	A	A	A	H	A	H	H	A	H	H	H	H	H	H	A	A	H	A
A	A	A	-	A	A	A	H	H	H	H	A	H	H	H	A	H	-	A	H	A	H
H	H	H	-	A	A	A	A	H	H	H	A	A	H	A	H	H	-	A	H	H	-
A	A	H	H	A	A	H	H	A	H	A	H	H	H	A	A	A	H	H	H	A	H
H	A	H	H	A	H	A	H	A	A	A	H	A	H	A	H	A	H	H	H	A	A
H	H	H	H	H	A	H	H	H	H	A	H	A	H	A	H	H	H	A	H	H	A
H	A	A	A	H	H	A	H	H	H	H	A	A	H	A	H	A	H	A	A	A	H
-	H	H	A	A	H	H	A	H	H	H	A	A	H	H	H	A	H	A	A	H	A
A	A	A	A	A	H	A	H	A	A	A	H	A	H	A	A	A	A	A	H	A	A
H	A	A	H	H	A	A	H	A	A	A	A	H	A	H	A	A	A	A	A	H	H
H	A	A	-	H	H	H	A	H	H	A	H	H	A	H	A	H	A	H	A	A	H
-	A	H	A	H	A	H	A	A	H	A	H	A	H	A	A	A	H	H	A	A	H
A	H	A	H	A	H	A	H	H	A	A	H	A	H	H	H	A	H	H	A	H	A
A	A	H	H	A	H	A	H	H	A	A	A	A	A	A	H	H	A	H	A	A	A
A	A	H	A	H	A	H	A	H	A	A	H	H	A	H	A	A	H	H	H	A	A
A	H	H	A	H	A	H	A	H	A	A	H	H	A	H	A	A	H	H	A	A	A
A	H	H	A	A	A	H	H	H	A	A	A	H	A	H	A	H	H	A	A	H	H
A	A	H	A	H	H	A	A	A	H	A	H	A	A	H	A	H	H	A	A	A	H
A	A	A	A	H	A	H	A	H	H	H	A	H	H	H	A	H	H	A	A	A	H
H	A	A	A	H	A	A	H	H	H	H	A	A	H	A	H	H	A	H	A	A	H
H	A	A	H	H	A	A	H	H	A	H	A	-	H	H	A	A	A	H	H	A	-
A	A	A	A	H	-	-	H	H	H	A	H	A	A	H	A	A	A	A	H	A	-
H	A	H	A	H	H	-	A	H	A	A	A	H	A	H	A	H	H	H	H	H	A
A	H	A	A	H	A	A	A	H	H	H	A	H	A	H	A	H	A	A	A	A	H
A	H	A	H	H	H	A	H	H	H	H	H	A	H	H	H	A	H	A	A	A	A
H	H	H	H	H	H	A	A	A	A	A	H	A	H	A	A	A	H	H	H	A	H
H	H	A	H	A	H	H	H	H	A	H	A	H	H	A	H	A	A	A	H	A	A

A	H	H	H	H	A	H	H	H	H	A	H	A	H	A	H	H	H	H	H	A		
H	H	H	H	H	A	A	A	H	H	H	A	A	H	H	A	A	H	A	H	-	A	A
H	H	H	A	H	A	H	H	A	H	H	H	A	A	A	H	H	A	H	H	-	A	H
H	A	A	H	A	H	H	A	A	A	H	H	A	A	H	H	A	H	H	H	H	H	H
H	H	H	H	A	A	A	H	H	H	H	A	A	H	A	H	H	H	-	H	H	A	A
A	H	A	H	A	H	A	A	H	H	H	A	H	-	A	A	H	A	H	H	A	H	H
H	A	A	A	H	A	H	A	A	A	H	A	H	-	A	A	H	H	H	A	H	A	A
H	H	A	H	A	H	H	H	H	H	A	H	A	A	A	H	H	H	H	A	A	H	A
H	A	A	H	A	H	A	H	A	A	A	H	A	A	H	A	A	A	A	H	A	A	A
H	A	H	A	A	H	H	A	H	H	H	A	H	H	A	A	H	A	H	A	H	H	H
A	A	A	A	H	A	A	H	A	A	A	H	H	H	A	H	H	H	A	A	H	H	-
A	H	A	A	H	A	H	H	H	H	A	A	H	A	A	H	A	A	H	A	H	H	A
A	A	A	A	H	A	H	H	H	A	H	A	H	A	H	A	H	A	A	H	A	H	A
H	H	H	H	H	H	A	A	A	A	A	H	A	H	A	H	A	A	H	A	H	A	H
A	A	A	A	H	A	A	H	A	A	A	A	H	H	H	A	H	H	A	A	H	H	H
H	A	A	A	H	H	H	H	A	H	A	A	A	A	H	A	H	A	H	A	-	A	A
A	A	H	H	H	A	H	A	H	H	A	H	H	H	A	A	A	A	A	A	-	H	A
A	H	A	H	A	A	A	H	A	H	A	H	A	A	A	H	A	A	A	A	-	H	A
A	A	A	A	H	A	A	H	A	A	H	A	A	H	H	A	H	A	A	H	-	-	H
H	H	H	H	H	A	H	A	H	A	H	A	A	H	A	H	A	H	A	H	A	H	A
H	H	H	A	A	H	A	H	H	H	H	A	H	H	H	H	A	H	A	A	H	A	A
H	A	A	A	A	A	A	H	H	H	H	A	A	A	A	A	A	H	H	A	A	H	H
A	A	H	H	-	H	A	H	H	A	H	H	A	A	A	A	H	A	A	H	H	A	A
A	H	H	H	A	H	H	H	A	H	A	-	H	H	H	H	A	A	H	H	H	H	H
A	H	A	H	A	A	A	H	A	A	H	H	A	A	A	A	H	H	A	A	A	H	H
A	H	A	A	H	H	H	-	A	H	H	A	A	A	A	H	H	A	A	A	A	H	H
A	A	A	A	H	A	A	H	A	A	A	H	H	A	A	H	A	A	H	H	A	A	A
H	A	A	A	H	A	A	H	A	A	H	H	A	A	H	A	H	A	A	H	A	H	H
A	H	A	H	A	A	A	H	A	A	H	H	A	A	H	H	A	H	H	A	H	A	A
H	A	H	A	H	A	A	A	A	H	H	H	A	A	A	A	H	A	H	H	A	H	A
A	H	A	H	H	A	H	H	H	A	-	A	H	H	A	A	A	A	A	A	A	A	A
H	A	H	A	H	A	A	A	A	A	A	A	A	A	A	H	H	A	A	H	A	H	H
A	A	A	H	H	A	H	H	A	H	H	H	A	H	H	H	H	A	H	H	A	A	H
A	A	A	A	A	H	A	H	A	H	A	H	H	A	H	A	H	A	H	A	A	H	H
A	A	A	A	H	H	H	A	H	H	A	A	A	A	H	H	A	A	H	H	A	H	H
H	A	A	A	H	A	A	H	A	A	H	H	A	A	H	A	H	A	A	H	-	A	H
A	H	H	A	-	A	A	A	H	H	H	-	A	A	H	H	H	A	H	A	H	A	A
H	H	H	A	-	A	A	A	H	H	A	-	H	A	H	A	H	A	H	H	A	H	A
H	A	A	A	H	A	A	H	H	H	H	A	A	H	H	A	H	A	H	A	A	H	H
A	H	H	A	H	A	A	H	H	H	A	A	H	H	A	A	H	A	A	A	A	A	A
A	A	A	A	A	A	A	H	H	H	H	A	H	H	-	A	H	A	A	H	A	H	A
H	H	A	H	A	A	H	H	H	A	H	A	H	H	A	H	A	A	A	H	H	A	A
H	A	H	A	H	A	H	H	H	A	A	H	H	A	A	H	H	H	H	H	A	A	A
A	H	A	H	H	H	H	A	H	H	A	H	H	A	A	H	H	A	A	H	-	A	H
A	A	A	H	A	A	A	H	H	H	H	A	H	A	H	H	A	A	A	H	-	H	A
A	A	H	A	A	A	A	H	H	H	A	A	H	A	H	H	A	H	A	A	H	H	H
H	H	A	H	A	A	H	H	H	H	A	A	A	H	A	H	A	A	H	A	H	A	A
A	A	H	H	H	H	A	A	H	H	A	A	A	A	A	A	H	A	A	A	H	A	H
H	H	H	A	H	A	H	A	H	H	A	A	H	H	A	H	H	H	A	A	A	H	H
A	H	A	H	A	H	A	H	H	A	A	H	A	H	H	A	H	H	A	H	A	H	H

A	H	A	H	A	H	H	A	A	H	A	A	H	H	H	A	H	H	H	H	A	A
A	H	H	H	A	H	A	H	H	A	H	H	A	A	A	H	A	A	H	H	A	A
H	A	H	A	H	A	H	A	A	H	H	A	H	A	A	H	A	A	A	H	H	A
H	H	H	A	H	A	H	H	A	H	H	H	H	H	A	H	A	A	A	H	H	H
A	A	-	A	H	A	A	H	A	A	A	A	H	H	H	A	H	A	H	H	H	A
A	H	-	H	A	H	H	H	A	A	A	H	A	H	H	H	A	H	A	H	H	A
A	A	A	A	-	A	A	H	A	A	A	H	A	H	A	H	-	A	A	A	H	A
A	H	A	H	A	H	H	A	A	H	A	A	H	H	H	H	A	H	H	H	H	A
H	A	H	A	A	H	A	A	H	H	H	H	H	H	A	H	H	A	H	A	H	A
A	A	A	H	A	H	A	A	H	H	A	A	A	A	H	A	A	H	H	A	A	A
A	H	A	H	H	A	A	A	H	A	H	A	A	A	H	A	A	H	A	H	A	A
H	H	H	H	A	H	A	A	H	A	H	A	A	H	A	A	H	A	H	H	H	A
A	A	H	H	A	H	A	H	H	A	H	H	A	A	A	A	H	A	A	H	H	A
A	A	H	A	H	H	H	A	A	A	A	H	H	H	H	H	A	A	H	H	A	A
A	A	A	A	A	H	A	H	A	H	A	H	H	A	H	A	H	A	H	A	A	H
H	A	A	A	H	H	H	A	A	H	A	H	H	H	A	H	A	H	H	A	A	H
H	A	A	H	A	A	A	H	H	H	H	A	H	H	H	H	A	A	A	H	H	A
H	A	H	H	A	A	H	A	A	A	A	A	H	H	H	A	A	A	A	H	H	H
H	H	A	H	H	A	H	A	A	A	A	A	H	A	A	H	H	A	A	H	H	H
H	H	A	H	A	H	A	A	H	A	A	H	A	A	H	A	H	H	H	H	H	H
H	H	A	H	A	H	A	A	H	A	A	H	A	A	H	A	H	H	H	H	H	A
A	A	A	A	H	A	H	H	H	H	H	H	-	H	H	A	A	H	A	A	H	A
A	A	A	A	H	A	H	H	H	H	H	A	H	A	A	H	A	A	H	A	H	H
A	A	H	H	A	A	H	A	A	A	H	A	A	H	A	A	H	A	H	A	A	H
A	A	A	H	H	H	H	A	H	H	A	H	A	H	H	H	A	H	H	A	A	A
H	A	A	A	A	A	A	H	A	H	H	A	H	H	H	A	H	A	H	H	H	A
H	H	A	H	A	H	A	H	A	H	A	H	H	A	H	A	H	H	H	A	H	A
A	H	A	H	A	H	A	A	H	H	H	H	H	H	A	A	A	H	A	H	A	H
H	H	A	H	A	H	A	A	A	A	A	A	A	A	A	A	H	H	A	H	H	A
A	H	A	H	A	H	A	A	A	A	A	A	A	A	A	A	A	H	A	H	A	H
H	H	A	H	A	H	A	A	H	A	A	A	A	A	A	A	H	H	A	H	A	A
A	H	H	H	A	H	A	H	H	A	H	H	H	H	A	A	-	H	H	H	A	H
A	H	H	H	A	H	A	H	A	A	A	H	A	H	H	A	H	A	H	H	A	H
A	A	A	H	A	H	H	A	H	H	H	A	H	H	A	A	A	H	A	A	A	H
A	A	A	-	H	A	A	H	A	A	A	H	H	A	A	A	H	A	H	H	A	A
A	A	H	A	H	A	A	A	H	A	A	A	H	H	H	A	A	A	H	H	A	H
-	H	H	H	H	H	A	A	A	A	A	A	H	A	A	A	H	H	A	H	H	A
H	A	A	A	A	A	A	H	H	H	H	A	A	A	H	H	A	H	H	A	A	A
A	H	H	A	A	A	H	A	A	A	A	A	A	A	A	A	H	A	A	A	H	A
H	A	H	H	A	H	A	A	A	A	A	A	A	A	A	A	A	A	A	A	H	A
A	H	A	H	A	H	A	A	A	A	A	A	A	A	A	A	A	A	A	A	H	A
A	H	A	H	A	H	A	A	A	A	A	A	A	A	A	A	A	A	A	A	H	A
H	A	H	H	A	H	A	A	A	A	A	A	A	A	A	A	A	A	A	A	H	A
H	H	H	H	A	H	A	A	A	A	A	A	A	A	A	A	A	A	A	A	H	A
A	H	H	H	A	H	A	A	A	A	A	A	A	A	A	A	A	A	A	A	H	A
H	A	A	A	H	H	A	A	H	A	H	H	H	A	H	A	H	H	H	A	A	H
H	A	H	H	A	A	H	A	A	H	A	H	H	A	H	A	A	H	H	H	A	A
H	H	H	H	-	H	A	H	H	H	H	A	A	H	H	A	A	H	A	H	A	A
A	H	H	H	H	H	A	A	A	H	A	H	H	A	A	H	H	A	A	H	H	A
A	H	A	A	H	H	H	H	H	H	H	A	A	H	A	A	H	H	A	A	H	H
A	H	A	H	A	A	H	A	A	A	H	A	H	H	A	H	H	H	H	H	H	-
H	-	A	H	A	A	H	H	H	H	A	A	A	H	A	A	A	A	-	A	A	H
A	H	A	H	H	H	A	H	A	H	H	A	A	H	A	H	H	H	H	H	A	A
A	A	H	H	H	A	H	H	A	A	H	A	A	A	A	H	A	A	A	H	H	A
A	H	H	H	A	A	H	H	H	A	H	A	H	H	A	H	A	A	A	H	H	H
A	H	H	H	A	A	A	A	A	A	A	A	H	A	H	A	A	H	A	A	H	A
H	H	H	H	A	H	A	H	H	H	H	A	A	H	A	H	H	A	H	H	A	A
H	A	A	H	H	A	A	H	H	A	H	A	H	H	H	A	A	A	H	H	A	A
H	A	A	A	H	A	A	H	H	H	H	A	A	H	H	A	H	A	H	A	A	H

H	A	A	H	A	A	A	A	A	A	A	A	A	A	H	H	H	A	H	A	A
H	A	A	A	H	H	H	A	A	H	A	H	H	A	H	A	H	H	A	A	H
A	H	H	H	A	H	A	H	H	-	H	H	A	A	A	H	A	A	H	H	A
H	A	H	H	A	A	H	A	A	A	-	A	H	H	H	A	A	A	A	H	A
H	A	A	A	H	A	A	H	H	A	H	H	A	A	A	H	H	H	A	A	H
H	A	H	A	H	A	A	A	H	A	-	H	H	H	-	A	A	A	-	A	H
H	A	A	-	H	A	A	H	H	A	H	H	A	A	A	H	H	H	A	A	H
A	A	A	H	H	A	H	H	H	A	H	A	H	H	A	A	H	H	A	A	H
H	H	H	H	A	H	A	A	H	A	-	H	A	H	A	A	H	A	A	A	H
H	A	A	A	A	A	A	H	A	H	A	H	A	H	H	A	H	A	A	A	H
H	A	H	H	A	H	H	A	H	A	H	A	A	A	H	A	A	A	H	A	H
A	H	A	A	H	H	A	H	H	A	H	A	A	A	H	A	H	A	A	A	H
A	H	H	A	H	H	A	H	H	A	H	A	A	A	H	A	H	A	A	A	H
-	H	A	H	A	-	H	H	H	A	A	A	H	H	H	H	A	H	A	-	A
A	H	A	H	A	A	A	A	A	H	H	A	H	H	H	H	H	H	-	A	H
H	H	H	H	A	A	A	H	H	H	A	A	H	A	A	A	A	H	A	-	H
A	H	A	H	H	A	A	A	H	H	H	A	H	A	H	H	A	A	A	A	H
A	A	H	A	H	A	H	A	A	H	A	H	A	A	A	A	H	A	H	A	H
A	A	H	A	H	A	H	A	H	A	H	H	A	H	H	A	A	A	H	A	A
A	H	H	H	A	H	A	H	A	A	A	H	A	H	H	H	A	H	H	A	H
A	H	A	A	A	A	A	A	H	A	A	A	A	A	A	A	A	A	A	H	H
H	A	A	A	A	A	A	A	H	A	A	A	A	A	A	H	A	A	A	A	H
H	A	H	H	A	A	A	H	A	A	H	H	A	H	A	H	A	H	H	H	A
A	A	H	A	A	H	A	H	H	H	H	H	H	H	H	H	A	A	H	A	H
H	H	A	H	H	A	H	A	A	A	A	A	H	A	H	A	A	H	A	A	H
H	A	A	A	A	A	A	H	A	H	-	A	H	H	H	H	A	-	A	H	H
H	H	H	A	A	A	H	A	A	H	H	A	H	H	A	A	A	-	A	A	H
A	-	H	A	H	A	H	H	A	H	H	H	H	A	A	H	H	A	H	A	A
H	A	H	H	A	A	A	H	A	-	H	H	A	H	A	H	A	H	H	H	A
H	A	H	H	A	H	A	H	H	H	H	A	A	H	H	A	A	H	A	A	A
H	H	A	H	A	H	H	A	A	H	H	A	A	A	H	A	H	A	H	A	A
A	H	A	H	A	A	A	A	A	A	H	A	H	H	A	H	A	A	A	A	A
A	H	A	A	-	H	A	A	A	A	H	A	H	H	A	H	H	-	H	A	H
H	A	A	H	A	A	A	A	H	A	A	A	A	A	H	A	A	H	H	A	A
A	A	H	H	A	A	H	H	A	H	A	H	H	H	A	A	A	H	H	A	H
A	A	A	H	H	A	H	H	H	A	H	A	H	H	A	A	H	H	A	A	H
A	A	A	A	H	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A	A	A	A	A	A	A	A	A	H	A	H	A	A	A	A	A	A	A	A	A
A	H	H	H	H	H	A	H	A	A	H	A	A	A	A	H	A	H	A	A	H
A	H	A	H	H	H	A	H	A	A	H	A	A	A	A	A	A	A	A	A	A
A	H	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A	H	A	H	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A	H	A	H	H	H	A	H	H	H	H	H	H	H	H	H	H	H	H	A	A
H	H	H	A	A	H	A	H	H	H	H	A	H	H	H	A	H	A	A	H	A
A	A	H	A	A	H	A	A	H	A	A	A	A	A	H	A	A	A	A	H	A
A	A	A	H	A	H	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A	H	H	H	H	H	A	H	A	A	H	A	A	A	A	A	A	A	A	A	H
A	H	A	H	H	H	A	H	H	H	H	H	H	H	H	H	H	H	H	A	A
H	H	H	A	A	H	A	H	H	H	H	A	H	H	H	A	H	A	A	H	A
A	A	H	A	A	H	A	A	H	A	A	A	A	A	H	A	A	A	A	H	A
A	A	A	H	A	H	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A	H	A	H	H	H	A	H	H	H	H	H	H	H	H	H	H	H	H	A	A
H	H	H	A	A	H	A	H	H	H	H	A	H	H	H	A	H	A	A	H	A
A	A	H	A	A	H	A	A	H	A	A	A	A	A	H	A	A	A	A	H	A
A	A	A	H	A	H	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
H	H	A	A	A	A	H	H	A	H	A	A	A	A	A	A	A	A	A	H	H
A	H	H	H	H	H	A	H	A	A	H	A	A	A	A	A	A	H	A	A	H
A	H	H	H	H	A	A	H	H	A	H	H	H	H	A	A	H	H	H	A	A
H	A	A	A	H	H	A	H	H	A	H	H	A	A	H	A	H	A	H	A	H
A	A	H	A	H	H	A	A	A	A	H	A	H	A	-	A	A	A	H	A	A
H	H	H	H	A	A	H	H	H	A	H	A	H	H	A	H	A	A	A	H	H
A	A	H	A	H	H	H	A	H	H	H	A	A	H	H	A	A	A	A	H	H

A	H	A	H	H	H	H	A	A	H	H	A	A	A	A	H	H	A	H	A	H	A	
A	A	A	A	A	H	A	H	A	H	A	H	A	A	H	A	H	A	A	A	A	H	H
A	H	A	H	A	H	A	H	A	H	A	H	H	A	H	A	H	H	H	H	A	H	H
H	H	H	H	H	H	A	H	A	H	A	A	H	A	A	H	H	H	-	A	H	H	H
H	A	A	A	A	A	A	H	H	H	H	A	A	A	A	A	H	A	A	A	A	H	A
A	A	A	A	A	A	H	H	A	H	A	H	H	A	H	H	A	H	A	A	A	A	A
A	A	A	H	A	H	A	H	H	H	-	A	-	A	-	H	A	A	-	H	A	H	A
A	H	H	-	A	H	H	A	A	H	-	H	-	A	-	H	H	H	-	A	H	H	A
H	-	A	A	A	H	A	A	H	H	-	A	-	H	A	H	H	A	H	H	-	H	H
A	-	H	H	A	H	H	A	A	A	A	A	A	A	A	H	A	A	H	H	H	H	A
H	A	H	A	A	H	A	A	A	A	H	A	H	H	H	A	H	H	H	H	H	H	A
H	H	H	A	H	H	A	A	A	A	A	H	A	A	A	A	H	H	A	H	H	A	H
A	H	H	H	A	A	H	A	A	A	H	A	H	H	H	A	A	H	A	H	A	H	A
H	A	H	A	H	A	A	A	A	A	A	A	A	A	A	H	H	H	A	A	H	A	H
-	H	H	H	A	A	A	H	H	H	H	A	A	H	A	H	H	H	A	H	H	A	A
-	H	A	H	A	H	H	A	A	H	A	A	H	H	H	H	A	H	H	H	H	A	A
H	A	A	H	A	H	A	A	H	A	A	A	H	H	H	A	A	H	A	A	H	H	A
A	H	A	A	H	A	A	A	A	H	A	H	A	H	H	A	H	H	A	A	H	H	A
H	A	H	-	A	H	A	A	A	H	H	H	H	A	H	A	H	A	A	A	A	A	H
H	A	H	A	H	A	A	H	H	A	H	H	A	A	A	H	A	A	A	A	A	H	H
H	H	H	H	A	A	H	A	H	A	H	H	A	H	H	A	A	A	H	H	A	A	A
H	H	H	-	A	A	H	A	H	A	H	H	A	H	H	A	A	A	H	H	A	A	A
A	A	H	-	H	A	H	A	H	H	A	A	A	A	H	A	A	H	H	H	H	H	H
A	H	A	-	A	H	H	H	A	H	H	A	A	A	H	H	H	H	A	H	A	A	H
A	H	H	A	H	H	A	A	A	A	A	A	A	A	A	A	A	H	A	H	H	A	-
A	A	H	H	H	A	H	A	H	H	A	H	A	H	A	A	A	A	A	A	H	A	A
A	A	A	A	H	H	A	H	H	A	H	A	H	H	H	H	A	A	H	A	H	A	A
H	H	A	H	A	H	A	H	A	H	A	A	H	A	A	H	H	H	A	A	H	H	H
A	A	-	A	A	H	A	H	H	H	H	H	H	H	H	A	A	A	-	A	A	H	H
A	A	H	A	H	A	A	H	A	A	A	A	A	A	A	H	A	A	H	H	A	H	A
H	H	H	H	A	A	H	A	H	A	H	H	A	H	H	A	A	A	A	A	A	H	A
H	H	H	-	A	A	H	A	H	A	H	H	A	H	H	A	A	A	A	A	A	H	A
H	H	H	A	H	H	A	A	A	A	A	A	A	A	A	H	A	A	A	A	A	H	A
A	A	H	A	H	A	A	A	A	A	A	A	A	A	A	H	A	A	A	A	A	H	A
H	A	H	A	H	A	A	H	A	A	A	A	A	A	A	H	A	A	A	A	A	H	A
H	H	H	H	A	A	H	A	H	A	H	H	A	H	H	A	A	A	A	A	A	H	A
H	H	H	A	H	A	A	A	A	A	A	A	A	A	A	H	A	A	A	A	A	H	A
A	A	H	A	H	A	A	A	A	A	A	A	A	A	A	H	A	A	A	A	A	H	A
H	A	H	A	H	A	A	A	A	A	A	A	A	A	A	H	A	A	A	A	A	H	A
H	A	H	A	H	A	A	A	A	A	A	A	A	A	A	H	A	A	A	A	A	H	A
A	A	H	A	A	A	H	A	H	A	A	A	A	A	A	H	A	A	A	A	A	H	A
H	A	H	A	A	A	H	A	H	A	A	A	A	A	A	H	A	A	A	A	A	H	A
H	A	H	A	H	A	A	A	A	A	A	A	A	A	A	H	A	A	A	A	A	H	A
A	A	H	A	A	A	H	A	H	A	A	A	A	A	A	H	A	A	A	A	A	H	A
H	A	H	A	H	A	A	A	A	A	A	A	A	A	A	H	A	A	A	A	A	H	A
H	A	H	A	H	A	A	A	A	A	A	A	A	A	A	H	A	A	A	A	A	H	A
H	A	H	A	H	A	A	A	A	A	A	A	A	A	A	H	A	A	A	A	A	H	A
A	A	H	A	H	A	A	A	A	A	A	A	A	A	A	H	A	A	A	A	A	H	A
H	A	H	A	H	A	A	A	A	A	A	A	A	A	A	H	A	A	A	A	A	H	A
H	H	H	H	-	A	H	H	H	H	A	H	A	H	A	H	H	H	-	-	H	A	A
H	-	A	-	A	A	A	A	A	A	A	A	H	A	H	A	A	H	A	-	A	H	A
H	-	H	-	A	A	H	A	A	H	A	H	H	A	H	A	H	A	H	-	A	A	A
A	-	A	-	A	A	A	H	A	A	A	H	H	A	H	A	H	A	A	A	A	A	A
A	H	H	A	A	H	A	H	H	H	A	A	A	A	H	H	H	A	H	H	A	H	A
H	A	A	H	H	A	A	H	H	H	H	A	H	H	A	A	A	A	A	H	H	A	H
A	H	A	H	H	A	H	A	H	A	H	H	A	A	H	H	H	H	A	H	A	A	A
A	A	A	H	H	A	H	H	A	A	H	A	A	A	A	H	H	A	H	H	A	H	A
A	A	-	A	H	A	-	H	A	H	H	A	H	A	H	H	H	A	H	H	H	-	A
A	H	H	A	A	A	H	A	A	H	A	H	A	A	A	A	A	H	A	A	H	H	H

all

A	A	A	A	H	H	H	A	H	H	-	A	A	A	H	A	H	H	H	A	A	A	A
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103
A	A	A	H	H	A	A	H	H	H	A	H	A	-	H	-	H	H	A	A	H	A
A	A	H	H	A	A	H	A	A	H	H	A	H	H	A	A	A	A	H	A	H	A
A	H	H	H	A	A	A	A	A	H	A	H	H	-	H	A	H	H	H	H	A	A
A	H	A	H	A	A	A	-	H	A	H	A	A	A	A	A	H	H	A	H	A	A
A	H	H	H	A	A	A	H	A	A	A	A	A	H	H	A	H	A	H	A	H	A
H	H	A	A	A	H	H	H	A	H	H	H	H	A	H	H	A	H	H	H	H	H
H	H	A	A	A	H	A	H	A	A	H	H	H	A	A	H	A	A	A	A	A	H
A	H	A	A	A	H	H	H	H	H	H	A	A	H	H	A	A	A	H	A	H	A
H	H	A	A	H	H	A	H	H	H	A	H	A	H	A	H	A	H	A	A	A	H
H	H	A	A	H	A	A	A	H	H	A	A	A	H	H	A	A	A	A	H	A	H
A	-	A	-	H	A	A	-	H	H	A	A	A	A	H	A	H	A	A	A	H	A
H	H	A	H	A	H	A	A	H	H	H	A	H	H	A	H	H	A	A	H	A	A
A	H	A	A	A	H	H	A	A	H	A	-	A	A	A	H	A	H	A	H	-	A
H	A	H	H	H	H	H	A	A	A	H	A	H	A	H	H	A	A	H	A	A	H
H	H	A	H	H	H	A	A	H	H	H	A	A	A	A	H	A	A	A	A	A	H
H	H	A	A	H	H	H	H	H	H	H	H	H	A	H	A	H	H	A	H	A	H
A	H	A	H	H	H	A	H	H	A	H	-	-	-	-	-	-	-	-	A	H	H
A	A	A	-	H	A	A	H	H	H	A	A	A	A	H	A	H	A	H	A	H	A
A	A	H	H	A	H	A	A	H	H	H	A	H	A	A	A	A	A	A	H	A	A
H	H	A	H	H	H	A	A	A	A	H	A	A	H	A	H	A	A	A	H	H	A
H	H	A	H	A	H	A	A	A	A	H	A	H	A	A	A	H	A	A	A	H	A
H	A	A	A	H	A	A	A	A	H	A	H	H	H	A	A	A	H	H	H	H	A
A	H	A	H	A	A	A	H	A	A	H	H	H	A	A	H	A	H	A	H	H	H
A	H	H	H	A	A	H	H	H	A	H	A	A	H	H	A	H	A	H	A	H	A
A	H	A	A	A	A	A	A	-	-	A	H	A	A	A	A	A	H	H	A	A	A
H	H	A	A	H	H	A	H	H	A	H	A	A	H	A	H	H	A	H	H	H	H
H	A	A	A	A	A	A	A	H	A	H	H	A	A	-	A	A	A	A	H	H	-
A	H	H	H	A	A	A	A	A	H	A	A	A	A	H	A	A	A	A	-	A	A
A	A	H	H	A	H	H	A	H	A	A	A	H	A	A	H	H	H	A	A	H	A
A	A	H	A	H	A	H	H	A	H	H	A	H	A	A	H	A	H	A	A	A	H
A	A	A	H	H	A	A	H	A	A	H	A	A	H	H	H	H	H	A	A	H	H
H	A	A	H	A	H	A	A	A	H	A	A	A	A	A	H	A	H	A	H	H	H
H	A	A	H	H	A	H	H	H	H	H	A	A	A	H	H	H	A	A	H	A	H
H	A	H	H	H	A	H	H	A	H	A	H	A	H	A	H	H	A	H	H	-	H
A	H	H	A	H	-	H	A	A	A	A	A	H	A	A	A	H	H	H	A	H	A
A	A	A	A	A	-	H	H	A	H	H	A	-	A	A	H	A	H	A	A	A	-
A	H	H	-	H	A	A	H	A	A	H	H	H	H	H	A	H	A	H	A	A	-
H	H	A	H	A	H	H	A	A	H	H	A	H	A	A	A	H	A	H	A	H	H
A	H	A	A	A	H	A	A	A	A	H	A	H	H	A	A	A	A	H	H	H	A
A	-	A	A	A	H	H	H	H	A	H	A	A	H	H	A	A	A	A	H	A	-
H	A	H	A	H	H	A	H	A	A	H	H	H	H	A	H	H	H	H	A	A	A
A	H	A	H	A	H	H	A	A	H	H	H	A	A	A	H	H	H	H	H	H	A
H	-	A	A	H	H	H	H	H	H	H	H	H	A	H	A	A	H	A	H	A	H
H	-	H	H	A	H	H	H	H	A	A	H	A	H	H	H	H	A	A	H	H	H
H	H	A	A	H	A	H	H	A	-	A	H	H	A	H	H	A	H	H	H	H	H
H	H	H	A	A	H	A	H	H	-	A	H	A	H	H	A	A	H	A	H	A	A
H	A	A	A	H	H	A	H	H	A	A	H	A	A	H	H	H	H	A	H	A	H
H	A	H	H	H	A	H	H	H	A	A	A	A	A	H	H	H	A	H	H	A	A
H	A	H	H	H	A	A	A	H	H	H	H	A	A	A	H	A	A	A	H	H	H
H	H	A	A	H	H	A	A	H	H	A	A	-	A	A	H	A	A	A	H	A	H
H	A	A	A	H	H	A	A	A	H	A	A	A	A	A	H	A	A	A	H	A	H

H	H	A	H	A	A	A	A	H	H	-	H	-	A	A	H	A	H	H	H	A	A
A	H	A	A	H	A	H	H	H	A	A	H	H	A	A	A	H	A	H	A	H	H
A	H	H	A	H	A	A	A	H	A	H	A	A	H	H	A	H	H	A	A	H	A
A	H	A	A	A	H	H	A	A	H	A	-	A	A	H	H	A	H	A	H	H	A
A	H	A	A	A	H	A	A	H	A	H	A	H	A	H	A	A	H	A	A	H	H
A	H	A	A	A	A	H	H	H	A	A	H	H	A	A	A	H	A	H	A	H	H
A	H	A	H	H	H	H	H	A	A	A	H	A	A	A	A	A	H	H	A	A	A
H	H	H	A	H	A	A	A	A	H	A	H	A	A	A	A	A	A	A	H	A	A
A	H	A	A	A	H	H	A	A	H	A	H	H	A	H	A	H	A	H	A	A	-
H	H	A	A	H	A	H	A	H	A	A	H	H	A	H	H	A	A	A	H	A	H
A	A	A	H	A	H	H	A	H	A	H	A	A	H	H	H	A	A	A	H	A	H
H	A	H	H	H	H	A	H	A	H	A	A	H	A	H	A	H	A	A	A	H	A
A	A	H	A	H	A	A	A	H	H	H	A	H	-	A	H	-	-	A	-	A	-
A	H	A	H	A	A	A	A	H	H	A	A	A	A	H	H	A	A	A	A	H	H
H	H	A	A	H	H	A	A	H	H	A	A	A	A	A	H	H	A	A	H	A	H
A	A	H	H	A	A	H	H	A	A	H	A	H	H	A	A	A	H	A	A	A	A
A	H	A	A	A	A	H	H	A	A	A	H	H	A	A	A	H	A	H	A	H	H
A	H	A	A	H	H	H	A	-	-	-	H	H	H	H	A	H	A	H	H	A	A
H	H	-	-	-	-	A	-	A	H	H	A	H	H	A	H	H	H	H	H	H	A
H	-	H	H	A	H	H	H	H	A	A	H	A	A	H	H	H	H	A	A	H	H
A	H	H	H	A	H	H	H	H	A	H	A	A	A	H	H	H	H	A	A	A	H
H	A	A	A	A	H	H	H	A	H	H	H	H	H	H	H	A	H	H	H	H	H
H	A	H	A	H	H	A	H	A	H	H	A	H	H	H	H	H	H	A	A	A	A
A	A	A	H	H	H	A	H	H	A	H	A	H	H	H	A	H	H	A	H	H	A
A	H	H	A	H	A	H	A	A	A	A	A	A	A	H	A	A	H	H	H	A	H
H	H	A	H	H	H	H	H	A	A	H	H	A	A	A	A	A	H	-	A	A	A
A	H	A	A	A	A	H	H	A	A	A	A	H	A	A	A	H	A	A	A	-	H
H	H	A	A	A	-	H	H	H	A	A	H	H	-	H	A	A	A	H	A	-	A
A	A	H	A	A	H	H	H	A	H	A	H	H	-	A	H	H	H	H	H	A	A
H	-	A	A	-	A	-	H	A	A	A	H	H	H	H	H	H	H	H	A	A	H
H	-	A	A	A	H	A	H	A	A	A	A	H	H	H	A	A	H	A	A	A	A
A	A	H	A	A	H	A	A	A	H	H	H	H	H	A	A	A	H	A	A	H	A
H	A	H	H	H	H	A	H	A	H	A	A	A	H	H	H	A	A	A	H	A	H
A	H	A	A	A	H	A	H	H	H	A	A	A	A	A	H	A	H	A	-	A	H
H	H	A	A	H	H	H	H	A	A	A	H	H	H	H	H	H	H	A	A	A	A
H	H	A	A	H	A	H	A	H	H	A	A	H	A	H	H	H	A	A	H	H	H
H	A	H	H	A	H	H	A	A	A	A	H	H	H	A	A	A	A	A	A	H	A
H	H	A	A	H	H	H	A	H	H	A	H	H	A	H	H	A	A	A	A	H	A
A	A	A	A	A	H	H	H	A	H	-	H	A	H	H	H	A	H	A	H	H	A
H	H	H	H	H	A	H	H	A	H	A	H	H	H	A	H	H	A	A	H	H	A
A	H	A	A	A	A	H	H	H	H	A	H	A	A	A	H	A	H	A	-	A	H
H	H	A	A	H	A	H	A	H	H	A	A	A	H	H	A	H	H	A	A	A	A
H	A	H	A	H	H	A	A	A	H	H	H	A	A	H	H	A	A	A	H	A	A
H	H	A	H	H	H	A	A	H	-	H	A	A	-	H	H	A	A	H	H	A	-
A	H	H	H	A	H	H	H	H	-	H	A	A	A	H	H	H	A	A	A	A	H
H	A	H	A	H	H	H	H	H	A	A	H	A	H	H	H	H	A	H	A	A	A
H	A	H	H	H	H	H	H	H	A	A	H	A	H	H	H	H	A	H	H	H	H
A	A	A	H	H	A	A	H	H	-	A	A	A	H	A	H	A	H	A	A	H	A
A	A	H	A	A	H	H	A	H	-	A	H	H	A	H	H	A	A	A	H	A	H
A	A	H	A	A	A	A	A	H	-	A	A	H	H	H	H	H	A	A	H	H	H
H	H	A	H	A	H	A	A	A	-	H	A	H	H	A	H	H	A	A	H	A	A
H	A	H	A	H	H	H	A	A	H	H	H	A	A	H	H	A	A	A	H	A	A
H	H	A	H	H	H	A	A	H	-	H	A	A	-	H	H	A	A	H	H	A	-
A	H	H	H	A	H	H	H	H	-	H	A	A	A	H	H	H	A	A	A	A	H
H	A	H	A	H	H	H	H	H	A	A	H	A	H	H	H	H	A	H	A	A	A
H	A	H	H	H	H	H	H	H	A	A	H	A	H	H	H	H	A	H	H	H	H
A	A	A	H	H	A	A	H	H	-	A	A	A	H	A	H	A	H	A	A	H	A
A	A	H	H	A	A	H	H	A	A	H	H	H	H	H	H	A	A	A	H	A	A
A	A	H	A	H	A	A	H	H	H	H	H	H	H	A	A	A	H	A	H	A	A
A	H	H	A	H	A	H	H	H	A	H	H	H	H	H	A	H	A	H	A	A	A
A	A	H	A	H	A	A	H	H	H	H	H	H	H	A	A	A	H	A	H	H	A
H	A	A	A	H	A	A	A	A	H	A	H	H	H	A	A	A	H	A	H	H	H

A	H	H	A	A	A	H	H	A	H	A	A	H	A	A	A	H	H	H	A	H	H
A	H	A	H	A	A	A	A	H	H	H	A	H	H	A	H	H	H	A	H	A	A
A	A	H	H	A	A	A	H	A	A	H	A	A	H	A	A	H	H	H	A	H	A
H	A	A	A	A	A	H	A	H	A	A	H	H	-	-	A	A	A	A	H	A	H
A	H	H	A	A	A	H	A	A	H	A	A	H	A	H	A	H	H	A	H	H	H
A	H	A	H	H	H	H	A	H	H	A	H	H	A	H	H	A	-	A	H	A	H
A	A	A	H	H	A	H	A	A	H	A	A	-	A	H	H	H	A	A	A	H	H
A	H	H	A	A	A	H	H	A	H	A	A	-	A	A	A	H	H	H	A	H	-
H	H	A	H	A	A	H	A	A	A	A	H	-	A	A	H	H	H	A	A	H	H
A	H	H	H	H	A	A	A	H	A	H	A	A	H	A	H	-	-	A	A	A	A
A	A	A	A	H	A	-	H	H	H	H	H	H	A	H	A	A	A	A	H	A	A
A	A	A	H	A	H	-	A	H	H	A	H	H	A	A	A	A	-	A	A	H	H
H	H	A	H	A	H	A	A	A	H	H	A	H	H	A	H	H	A	A	H	A	A
-	H	H	H	A	A	A	H	H	A	H	A	-	H	H	A	H	A	H	A	H	A
-	H	A	H	A	H	A	A	H	H	H	H	H	A	A	H	H	H	H	H	H	A
H	H	A	A	H	A	H	H	A	A	A	H	A	H	-	H	H	H	H	A	H	-
H	H	A	A	A	H	A	H	A	A	A	A	H	H	A	A	H	A	A	A	H	A
A	A	A	A	-	H	A	H	H	H	H	A	H	H	A	A	H	A	A	H	A	H
H	H	A	H	A	H	A	A	A	A	A	A	H	H	H	A	A	A	A	A	A	H
A	A	H	H	H	H	H	H	A	H	A	H	H	A	A	A	-	A	H	A	H	H
H	A	H	H	H	H	H	H	A	H	A	H	A	H	H	H	-	H	A	H	H	A
A	A	A	A	A	H	H	H	A	H	A	H	A	H	H	H	-	H	A	H	H	A
H	H	A	A	H	H	A	H	A	A	H	H	A	H	-	A	A	H	H	A	A	A
A	A	H	H	H	A	A	A	H	A	A	H	A	H	-	A	A	H	H	A	A	A
H	A	H	H	H	A	H	H	H	A	A	A	A	A	-	H	H	A	H	H	A	H
H	A	H	A	H	H	A	H	A	H	H	H	H	H	H	H	H	H	H	A	A	A
H	H	A	H	H	H	H	A	H	H	A	H	H	A	-	H	A	A	A	H	A	H
A	A	H	H	H	A	A	A	A	A	H	A	A	A	A	H	A	H	A	H	A	H
H	A	H	H	A	H	H	A	A	A	A	H	H	H	A	A	A	A	A	A	H	A
H	A	H	A	A	A	A	A	H	A	A	H	A	A	A	H	A	H	H	H	H	A
A	A	H	H	A	A	A	A	A	A	A	H	A	A	A	A	H	A	H	A	H	A
A	A	H	A	A	A	A	A	H	A	A	A	H	A	A	A	H	H	A	H	A	H
A	A	H	A	A	A	A	A	A	A	A	A	H	A	A	A	H	H	A	H	H	A
H	A	H	H	H	A	A	A	A	A	A	H	A	A	A	A	H	A	H	A	H	A
H	A	H	A	A	A	A	A	A	A	A	H	A	A	A	A	H	A	H	A	H	A
A	A	H	A	A	A	A	A	A	A	A	H	A	A	A	A	H	A	H	A	H	A
A	A	H	A	A	A	A	A	A	A	A	H	A	A	A	A	H	A	H	A	H	A
H	A	H	H	A	H	H	A	A	A	A	H	H	H	A	A	H	A	A	A	A	A
H	A	H	A	A	A	A	A	A	A	A	H	A	A	A	A	H	A	H	A	H	A
H	H	A	A	H	H	A	H	A	A	A	H	H	A	H	H	A	A	H	H	A	H
H	A	H	H	H	A	A	A	H	A	A	H	A	H	H	A	H	A	H	H	H	A
A	A	H	A	H	A	A	A	H	A	H	H	H	A	A	H	H	A	A	A	A	A
H	A	H	H	A	H	H	A	H	A	H	A	A	H	H	H	A	A	A	H	A	H
H	A	A	A	H	H	H	-	H	A	A	A	A	A	H	H	A	H	H	A	H	-
H	A	A	H	H	A	H	A	A	H	H	A	H	A	A	A	H	H	H	A	H	A
H	A	H	H	H	A	A	A	A	A	A	H	A	H	A	A	H	H	A	H	A	-
H	H	A	H	A	H	H	H	H	A	A	H	A	H	H	A	H	A	A	A	H	A
A	H	H	H	H	A	H	H	H	H	A	A	H	A	A	A	-	-	H	-	H	-
H	A	A	A	H	A	A	A	A	H	A	H	H	H	A	A	H	H	H	H	H	A
A	H	A	A	A	A	H	A	A	H	H	A	H	H	H	A	A	H	H	A	A	A
H	H	-	A	H	A	A	A	H	H	A	H	A	H	H	H	A	A	A	H	A	A
A	A	-	H	H	-	A	H	H	H	A	A	A	A	H	A	H	A	A	A	H	A
H	A	H	H	H	H	H	H	H	A	A	H	A	H	H	H	H	A	H	H	H	H

A	A	A	H	H	H	H	H	H	A	H	A	H	H	H	H	H	H	A	H	H
H	H	A	A	H	A	H	H	A	A	A	H	A	H	H	H	H	H	A	H	H
A	H	A	H	A	A	A	A	H	H	H	A	H	H	A	H	H	H	H	A	A
A	A	-	A	A	H	-	H	H	H	H	A	H	H	H	A	H	A	A	H	H
A	A	A	H	A	A	H	A	H	A	A	-	A	A	H	A	A	A	A	A	H
A	A	A	H	-	A	-	A	-	H	H	A	H	H	H	A	A	A	H	A	A
A	A	A	H	H	A	A	-	H	A	A	H	A	A	H	H	A	A	A	A	H
A	H	H	H	A	A	A	-	-	H	A	H	H	A	H	A	A	H	H	A	A
H	H	A	H	H	H	A	-	H	A	H	H	A	H	A	H	A	A	H	A	A
A	H	A	A	A	A	A	H	H	A	A	H	A	H	A	H	A	A	A	H	H
A	A	H	A	H	A	A	A	H	H	H	A	H	A	A	A	H	A	A	H	A
A	A	H	A	A	H	A	A	H	H	H	A	H	A	A	A	H	A	A	H	A
-	H	A	H	A	A	A	A	H	-	H	H	A	A	A	A	A	H	A	H	H
A	H	A	H	H	H	H	H	A	H	A	H	H	A	A	A	A	A	H	A	H
A	H	A	A	A	A	H	A	A	A	A	A	H	A	A	H	H	A	A	H	H
A	H	H	A	H	A	H	H	H	A	H	H	H	H	H	A	H	A	H	A	A
A	A	H	H	A	H	H	A	A	A	A	H	A	A	H	A	H	H	A	A	A
A	A	H	A	H	A	H	A	H	H	A	H	A	A	A	H	A	A	H	H	A
H	H	A	A	H	H	H	A	H	H	A	H	H	A	H	A	A	H	A	H	A
A	H	A	A	A	H	H	A	H	H	A	A	A	A	A	H	A	H	A	H	A
A	A	A	A	A	H	A	A	A	H	H	H	H	-	A	A	A	H	A	A	H
H	H	A	H	H	A	H	H	H	A	A	A	A	A	H	H	H	A	H	A	H
A	H	A	A	A	A	A	H	H	H	A	H	A	H	A	A	H	H	A	H	A
A	A	H	H	A	A	A	H	H	A	H	A	H	A	A	H	H	A	H	H	A
H	A	H	A	H	H	A	H	A	A	H	H	H	A	H	H	H	H	A	A	A
A	A	H	H	H	H	A	H	A	H	H	-	A	H	-	-	H	-	-	-	A
H	A	H	A	H	H	A	H	A	A	H	H	H	A	H	H	H	H	A	A	A
A	H	H	H	A	A	A	A	A	-	A	H	H	A	H	A	H	H	H	A	A
A	H	A	H	A	A	A	H	H	A	A	H	A	A	A	A	H	H	A	A	A
A	-	H	H	A	H	A	A	H	H	H	A	H	A	A	H	A	H	A	A	H
A	-	A	A	A	H	A	A	A	H	H	H	H	H	A	A	A	H	A	A	H
H	-	A	A	H	A	H	H	A	A	-	H	A	H	H	A	H	A	H	H	A
A	A	H	H	A	H	H	A	A	A	-	A	A	H	H	A	A	-	H	H	A
H	H	A	A	H	A	H	H	A	A	-	H	A	H	H	H	A	-	H	A	H
H	H	H	H	H	H	A	A	H	A	H	A	A	A	A	H	A	H	A	H	H
A	H	H	A	A	H	H	A	H	A	A	H	A	A	A	A	H	H	A	H	H
H	A	A	A	A	A	H	H	A	A	H	H	H	A	A	A	H	A	H	A	A
H	A	A	H	A	H	A	H	H	H	H	H	A	H	A	H	A	A	A	A	H
H	H	A	-	H	-	A	A	H	H	A	H	A	H	H	H	A	A	A	H	A
H	A	A	-	H	-	H	A	H	A	H	A	A	A	A	H	A	H	H	A	A
H	H	H	A	H	H	A	-	A	-	A	A	H	-	A	A	H	H	A	A	-
A	H	H	A	H	A	A	-	A	-	H	H	H	-	H	A	H	A	H	A	A
A	H	A	A	A	A	A	-	H	-	H	A	A	-	A	A	H	H	A	H	A
A	A	A	H	A	H	H	A	A	A	A	H	A	H	A	H	H	H	A	H	A
H	H	H	A	A	A	A	A	H	H	H	H	A	A	H	H	A	A	H	A	A
H	H	H	A	A	A	A	A	A	A	H	A	A	A	A	A	A	A	A	A	A
A	A	H	H	H	H	A	A	H	A	A	A	H	A	A	A	A	A	H	A	H
A	H	A	H	H	H	H	A	-	A	H	H	A	A	A	A	A	A	H	A	H
H	H	H	H	H	A	A	A	H	A	H	A	H	A	A	A	H	A	H	A	H
A	A	A	A	A	H	A	H	A	A	A	A	H	A	A	A	A	A	A	A	A
H	A	H	H	H	H	A	A	A	A	H	A	H	A	H	H	A	A	H	A	H
H	A	H	A	H	H	H	H	A	A	H	H	H	H	A	A	H	H	H	A	A
H	H	H	A	A	A	A	A	H	H	H	H	A	H	H	H	A	A	H	A	H
A	H	H	A	H	H	A	H	A	H	H	A	H	H	H	H	A	H	A	A	H
A	H	H	H	A	A	A	A	H	H	A	-	A	A	H	-	A	A	H	H	A
A	H	A	A	A	A	H	H	A	H	A	A	H	A	A	A	H	H	A	H	A
H	A	A	A	H	H	A	A	A	A	H	A	H	A	A	A	H	A	H	A	H
H	A	H	H	H	H	A	A	A	A	H	A	A	A	A	A	H	A	H	A	A
H	H	H	A	A	A	A	A	A	H	A	A	A	A	A	A	H	A	H	A	A
H	H	H	H	H	A	H	H	A	H	A	H	H	H	H	A	H	A	A	H	H
A	H	A	A	H	H	A	A	H	H	H	A	-	H	H	H	H	A	H	A	H
H	A	A	A	H	A	A	A	A	H	A	H	-	H	A	A	H	H	H	H	A
A	H	H	H	H	A	A	H	A	H	A	H	-	A	A	A	H	A	A	H	H

all

A	A	A	A	H	A	A	H	H	H	H	H	H	H	A	A	A	H	A	H	H	A
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119
A	H	-	H	H	H	H	H	-	A	A	H	H	A	-	H
H	A	A	A	A	A	A	H	A	H	H	A	A	A	A	A
H	A	A	H	A	-	H	H	A	H	A	A	H	H	H	H
H	H	A	H	A	H	A	H	A	H	H	H	A	A	H	A
H	H	A	H	H	A	H	A	H	A	A	H	H	A	H	H
A	H	A	A	H	A	A	H	A	A	H	H	A	A	A	H
H	H	A	A	H	A	H	A	A	H	A	H	H	A	A	A
H	A	H	A	H	H	A	H	A	H	A	A	H	A	A	H
H	H	H	H	H	H	H	A	H	H	H	H	A	A	-	H
H	A	H	H	A	H	H	A	H	A	A	H	H	H	A	A
-	A	-	A	A	-	H	A	H	A	A	A	H	A	A	-
A	H	H	H	H	H	A	H	A	A	H	H	A	A	A	H
A	H	A	H	A	A	H	-	A	H	H	A	H	H	H	H
H	A	A	A	H	A	A	A	A	-	-	-	H	A	A	A
H	A	A	A	H	H	A	H	H	-	A	-	A	A	A	A
H	A	A	H	H	A	H	H	H	A	H	A	A	H	H	H
H	H	H	H	A	A	A	H	H	A	A	A	A	H	A	A
H	H	H	A	H	H	H	H	A	A	H	A	A	A	H	A
A	H	H	H	H	H	H	H	A	A	A	H	A	H	H	A
H	H	H	H	H	H	H	H	H	A	A	H	H	H	A	H
H	H	A	H	A	A	A	H	H	H	H	A	H	A	H	H
A	H	H	H	H	A	H	H	A	A	A	H	H	A	H	A
H	A	-	-	-	-	-	-	-	-	A	A	A	A	H	A
H	A	H	A	H	H	A	H	A	A	H	H	A	A	A	H
H	-	H	-	A	A	-	A	A	-	-	A	A	H	A	H
A	A	H	H	H	H	A	H	H	A	H	H	A	A	H	A
H	H	H	H	-	-	H	H	A	H	A	A	H	H	H	-
H	A	A	H	A	A	H	H	A	H	A	A	H	H	H	H
A	H	A	A	H	A	H	A	A	A	A	H	A	H	A	H
A	A	A	H	H	H	H	H	A	A	H	A	-	A	H	A
H	H	H	A	H	A	A	A	H	H	H	H	H	-	H	A
A	A	H	A	H	A	H	H	H	A	H	A	A	H	A	A
H	A	A	H	A	H	A	A	A	H	H	H	A	A	A	-
H	H	H	A	H	A	A	A	H	H	H	H	H	H	H	A
H	H	A	H	A	A	H	H	A	A	A	A	H	A	H	H
H	A	A	A	A	A	A	H	A	-	A	A	H	H	A	H
H	A	A	A	A	H	A	H	H	H	A	A	A	A	H	A
H	A	-	A	A	A	A	A	H	H	A	A	H	A	A	H
A	A	H	H	A	H	H	H	A	A	A	A	-	A	A	H
H	H	H	A	H	H	H	H	H	A	H	H	H	A	H	H
A	A	H	A	H	H	A	A	H	H	H	H	-	H	A	A
H	H	A	A	H	A	H	A	H	H	H	H	-	H	A	A
A	H	H	A	-	A	A	H	-	H	H	H	-	H	A	H
H	A	A	H	A	A	H	H	H	A	H	A	A	H	A	A
A	H	A	H	H	A	A	H	A	A	A	H	H	A	H	A
H	H	A	A	H	A	H	H	A	H	A	H	-	A	A	A
A	H	A	A	A	A	A	H	H	H	H	H	-	H	-	A
A	H	H	H	A	A	H	A	H	A	A	H	-	H	H	H
A	H	A	H	H	A	H	H	A	A	A	A	-	A	A	A
H	A	H	H	H	H	A	A	A	H	H	H	-	H	H	H
H	A	A	A	H	H	A	H	H	H	H	H	-	H	H	H
A	A	A	H	H	H	A	H	H	A	A	H	-	A	H	A

A	H	H	H	A	A	A	A	A	A	A	-	-	H	H	H
A	H	H	A	A	H	H	A	H	A	H	A	-	H	H	-
A	H	A	-	A	H	A	A	H	A	A	A	H	A	A	H
H	A	A	A	A	A	A	A	A	H	H	H	H	A	A	A
A	H	H	A	H	H	H	A	H	A	H	H	A	A	H	A
A	H	H	-	A	H	H	A	H	A	H	A	-	H	A	A
A	A	A	-	H	A	H	H	A	H	H	A	-	H	A	A
A	H	H	-	H	A	A	A	A	A	H	A	-	A	A	H
H	H	H	-	H	A	H	H	H	A	H	A	-	H	A	H
H	H	H	-	A	H	A	H	H	H	H	H	-	A	H	A
H	H	H	-	H	A	H	A	A	H	A	H	-	A	H	A
H	H	A	H	A	H	A	H	H	A	A	A	H	H	H	H
A	H	A	A	A	H	H	A	H	A	A	A	A	H	H	H
H	H	H	-	A	-	H	H	H	A	H	A	A	A	A	H
H	A	H	A	A	H	A	H	A	H	H	H	H	A	H	H
H	A	A	H	H	H	A	H	H	H	H	H	H	H	H	H
A	A	H	A	A	-	H	A	A	A	A	A	A	A	A	A
A	H	H	H	A	H	H	A	H	A	H	A	A	H	A	H
H	H	A	A	A	A	H	H	H	A	A	H	A	A	A	H
H	A	A	H	H	H	H	H	A	A	H	H	H	H	A	A
A	A	A	A	H	H	A	H	A	H	A	A	-	A	H	A
H	H	A	A	H	A	H	A	A	H	A	H	H	-	A	A
H	A	A	A	H	A	H	A	H	H	H	H	H	-	A	A
H	H	H	A	H	H	A	H	H	A	H	H	A	A	H	A
H	H	H	H	A	H	A	A	A	H	A	A	A	A	A	A
H	A	A	A	-	A	H	H	A	H	H	A	H	H	A	A
A	H	H	H	A	H	H	A	H	A	H	A	A	H	A	H
H	H	A	A	H	A	A	A	A	H	A	H	A	A	A	A
A	A	H	A	A	H	A	A	A	H	A	H	H	A	A	A
H	A	A	A	H	H	A	A	A	H	A	H	-	H	A	A
H	A	A	A	H	A	A	A	A	H	A	H	H	A	A	A
A	A	H	A	A	A	A	A	A	H	A	A	A	A	A	A
H	H	A	A	H	A	H	A	H	H	H	H	H	H	A	A
H	A	A	A	H	A	A	A	A	H	-	A	H	-	A	A
H	H	A	A	H	A	A	A	A	H	A	H	H	A	A	A
A	H	H	A	A	A	A	A	A	H	H	H	A	A	A	A
A	H	H	A	A	A	A	A	A	H	A	A	H	A	A	H
A	A	A	H	A	A	A	A	A	H	A	A	A	A	A	A
A	H	H	A	A	A	A	A	H	H	H	A	H	A	A	A
A	A	-	A	H	A	H	A	A	A	A	A	A	H	A	A
H	H	-	H	A	A	H	H	H	A	H	A	A	H	A	A
H	H	H	H	A	H	A	A	H	A	A	H	A	A	H	H
A	H	A	H	A	A	H	H	A	H	H	H	H	H	H	H
H	A	A	A	H	A	A	H	A	H	H	A	A	A	H	A
A	H	A	A	A	A	A	H	A	A	H	-	A	-	H	A
H	A	A	A	A	H	A	A	H	H	A	A	A	H	A	H
H	A	A	A	H	A	A	H	A	H	A	A	H	H	A	A
H	H	A	A	H	A	A	H	A	A	A	H	H	A	H	A
A	H	H	H	H	-	H	H	A	-	A	H	A	A	A	H
-	A	A	A	H	A	A	H	H	H	-	A	A	A	A	H
A	H	A	A	H	H	A	H	A	H	H	A	H	A	A	H
A	A	A	H	A	H	H	H	A	A	A	A	A	A	A	H
H	H	A	H	A	A	H	-	H	H	H	A	A	H	A	A
H	H	H	A	H	A	H	H	H	A	H	A	H	H	A	A
A	A	H	H	A	A	A	A	A	H	A	H	H	A	A	H

H	H	A	H	A	A	H	H	A	H	H	-	A	H	A	H
A	A	A	H	A	A	A	H	-	H	H	H	A	A	H	A
H	H	A	H	H	A	A	H	-	H	H	H	H	H	A	H
H	H	A	H	H	H	A	H	H	A	A	H	A	H	H	A
A	A	A	A	H	H	H	H	H	-	H	-	H	A	H	H
A	H	H	A	H	H	A	A	A	A	-	H	A	A	A	A
A	-	H	H	A	H	A	A	A	-	-	A	H	H	A	A
H	H	H	A	H	H	H	H	A	A	H	H	H	A	H	H
H	H	A	A	A	A	H	H	H	A	H	H	-	A	-	-
A	A	H	H	H	H	H	A	A	H	A	H	H	A	H	H
H	A	H	A	H	H	A	A	A	A	-	A	H	A	A	H
A	A	A	A	A	H	A	H	H	H	H	H	H	A	A	H
A	A	A	A	A	H	A	A	H	A	H	H	A	A	A	A
H	H	H	A	H	A	H	H	H	A	H	A	H	A	H	H
H	A	H	A	H	H	H	A	A	A	A	A	H	A	A	H
H	A	A	A	A	H	H	A	A	A	A	A	H	H	H	H
H	H	H	A	A	A	H	H	A	A	H	A	H	A	A	A
H	H	H	H	H	H	H	H	H	-	A	H	H	H	A	H
-	A	A	H	H	A	H	H	H	A	H	A	A	H	H	H
-	-	A	A	A	A	A	A	A	H	A	A	A	A	H	H
H	H	H	H	A	A	H	A	A	A	A	A	A	H	H	A
A	H	H	A	H	H	H	H	A	H	H	A	A	A	H	A
A	H	A	H	A	A	H	H	A	-	H	H	H	H	H	H
H	H	H	A	A	A	H	A	H	A	-	A	H	A	A	H
H	H	A	A	A	H	A	H	A	-	H	A	A	A	A	H
A	H	H	H	A	H	H	H	A	-	A	H	A	H	H	H
H	A	H	H	H	A	H	H	A	-	H	H	A	A	H	A
H	A	A	H	A	H	A	A	H	-	A	A	H	A	H	A
H	H	A	H	A	A	H	A	H	-	A	H	H	H	A	A
H	A	H	H	A	H	H	A	H	-	A	A	H	H	H	A
A	H	A	H	A	A	H	H	A	-	H	H	H	H	H	H
H	A	A	H	H	H	H	H	-	-	H	H	H	H	A	A
H	H	A	A	A	A	A	A	A	-	A	A	A	A	H	H
A	A	A	H	A	A	A	A	-	-	A	A	H	H	A	A
A	A	A	H	A	A	A	A	A	-	A	A	A	A	A	A
H	A	A	H	A	A	H	H	A	-	-	A	A	A	H	H
H	A	H	A	H	A	A	H	A	H	H	H	H	H	H	A
H	A	A	A	H	-	A	H	A	-	A	A	H	H	A	A
A	H	H	A	H	A	H	H	A	H	H	H	A	H	A	H
A	A	A	A	A	H	A	H	H	A	H	H	H	A	A	A
A	A	A	A	A	A	H	A	A	H	H	A	A	A	A	A
H	A	A	A	H	A	A	A	H	H	H	H	H	A	A	A
A	A	H	A	H	A	H	A	A	H	H	A	A	A	A	H
A	H	-	H	A	A	H	H	A	H	H	A	H	H	H	H
A	A	A	A	A	H	A	H	H	A	H	H	H	A	A	A
A	H	H	H	H	H	A	A	A	H	H	A	H	H	H	A
H	A	H	H	H	H	H	H	H	H	A	H	A	A	H	A
A	H	A	A	A	H	A	A	A	A	H	H	A	A	H	H
A	A	H	A	A	H	H	A	A	H	H	H	H	A	A	H
A	A	A	A	A	A	H	A	A	H	A	A	H	A	A	H
H	H	H	H	H	H	H	A	H	H	A	H	H	A	A	A
A	A	H	H	A	A	A	H	A	A	A	H	H	A	H	A
H	H	A	H	A	H	A	A	H	H	A	H	H	A	A	H
A	H	A	H	H	H	H	H	H	A	H	H	A	H	H	A
A	H	-	A	A	H	H	A	H	A	H	A	A	H	A	A
A	H	A	A	A	H	A	H	A	A	H	A	A	A	H	A
A	H	H	A	A	H	A	A	A	H	H	H	H	A	A	H
H	A	H	H	A	A	A	H	H	H	H	H	H	A	A	A
A	H	H	A	A	A	H	H	A	H	A	A	H	A	H	H
-	H	A	H	A	A	H	H	H	A	H	A	A	H	A	A

H	A	A	H	A	H	H	H	H	H	H	H	H	H	H	
A	A	A	A	A	A	A	A	A	H	H	A	A	A	H	A
A	A	H	H	A	A	H	H	A	H	H	H	H	H	A	A
H	-	H	A	H	A	A	A	H	H	H	H	H	H	A	-
A	H	H	A	A	A	A	A	H	A	A	A	A	A	H	H
H	H	H	A	A	A	H	A	A	A	H	A	H	A	H	H
A	A	H	A	H	A	A	A	H	A	A	A	H	H	A	H
H	A	A	A	A	A	H	H	A	H	A	A	H	H	H	H
H	H	H	A	H	H	H	H	A	H	A	A	A	H	A	A
A	H	A	H	A	A	H	A	H	A	H	A	H	H	H	-
H	H	A	A	H	A	H	H	H	A	H	H	H	A	A	H
H	H	H	A	A	H	H	H	H	A	H	A	H	-	-	-
H	H	H	A	H	H	H	H	H	A	A	H	H	H	-	H
H	H	H	A	H	H	H	H	H	H	H	H	A	A	H	H
H	H	H	H	H	H	H	A	H	H	H	H	A	A	H	H
A	A	A	A	H	H	H	A	H	A	A	A	A	H	A	H
A	A	A	A	A	H	H	A	A	A	A	A	A	H	A	H
H	H	A	A	H	A	H	H	A	A	H	A	H	H	A	H
H	A	A	A	A	A	H	A	A	H	A	A	H	H	A	A
A	H	A	H	A	A	H	H	H	A	H	A	A	H	A	A
A	H	H	H	A	H	H	A	H	A	H	H	A	A	H	H
H	A	A	A	H	A	A	A	H	H	H	H	H	A	A	A
H	A	H	A	A	H	A	A	H	H	H	H	H	H	A	H
H	H	A	H	H	A	H	H	A	A	A	A	A	A	H	H
A	H	A	H	A	A	H	A	H	A	H	A	H	H	H	H
H	H	A	A	A	A	A	A	A	A	A	A	A	A	H	H
H	H	A	H	H	A	A	H	H	H	H	H	H	H	A	H
H	A	A	A	H	A	A	A	H	H	H	A	H	H	A	A
H	A	A	A	A	H	A	A	H	H	H	H	H	H	H	H
H	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
H	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A	H	A	H	A	H	A	H	A	H	A	A	A	A	H	A
H	H	A	H	A	A	H	A	H	A	A	A	A	H	A	A
H	H	A	H	A	A	H	A	H	A	A	H	H	H	A	A
A	-	H	A	H	H	H	H	A	A	H	A	A	A	H	A
H	H	A	H	A	A	H	A	H	A	A	H	H	H	A	A
A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
H	A	H	A	H	H	A	H	A	H	A	H	A	A	A	A
A	H	A	H	H	A	H	A	H	A	A	A	A	H	A	A
H	H	A	H	A	A	H	A	H	A	A	H	H	H	A	A
A	-	H	A	H	H	H	H	A	A	H	A	A	A	H	A
H	H	A	H	H	A	H	A	H	A	H	A	A	A	A	H
H	H	A	H	A	H	A	H	A	H	A	H	H	A	H	A
H	A	H	A	H	H	A	H	A	H	A	H	H	A	A	A
A	A	A	A	A	A	H	A	A	H	H	A	A	A	A	H
A	H	H	A	A	A	A	A	H	H	H	A	A	A	A	A
A	H	H	A	H	H	H	H	H	H	H	H	A	A	H	A
A	H	H	H	H	A	H	H	A	A	H	H	H	A	H	A
A	A	H	A	H	A	A	A	A	A	H	A	A	A	H	A

H	A	H	A	H	H	H	A	A	A	H	A	H	A	H	
H	A	-	A	H	H	H	H	A	H	A	A	H	H	A	-
H	A	A	H	A	A	H	H	A	H	A	A	H	H	H	H
H	H	H	H	H	A	A	H	A	H	A	H	H	A	H	H
A	A	H	H	A	H	A	H	H	A	H	A	H	H	H	H
A	H	A	A	A	H	H	A	H	A	A	A	A	H	H	H
A	A	H	H	H	H	A	A	A	A	H	H	H	H	H	H
H	H	A	A	H	A	H	A	A	H	A	H	H	A	A	A
-	A	A	H	A	H	H	A	H	A	A	A	A	A	H	A
H	A	H	A	A	H	A	H	A	H	A	A	A	H	H	H
H	H	H	A	H	A	H	A	A	H	A	H	A	A	H	H
H	H	H	A	H	H	H	H	H	A	H	H	A	A	H	H
A	H	A	H	A	A	H	A	H	H	A	A	H	A	A	A
H	A	H	H	H	H	A	H	A	H	H	H	H	H	H	H
A	H	H	H	H	H	A	A	A	H	H	A	H	A	H	A
A	H	A	H	A	H	A	-	H	A	A	A	H	H	A	H
H	A	H	A	A	H	A	H	A	H	A	H	A	A	H	H
H	H	H	H	H	H	A	H	H	A	A	H	A	H	H	A
A	H	H	A	H	A	H	H	A	A	H	H	A	A	A	A
A	A	H	A	A	H	A	A	A	H	A	H	A	A	A	A
A	A	A	A	H	A	H	A	A	H	A	H	A	A	A	H
A	H	A	H	A	H	A	H	H	A	H	A	A	A	A	H
H	H	H	A	H	H	A	H	H	A	H	H	A	A	H	A
H	H	H	A	H	H	H	H	H	H	H	H	H	H	H	H
H	H	A	H	A	H	A	H	H	A	A	H	H	H	H	H
A	A	A	A	A	H	A	A	A	A	A	A	A	A	A	A
A	H	H	A	H	A	A	H	A	H	H	H	H	H	A	H
A	H	H	A	H	H	A	A	H	A	H	H	H	H	A	A
A	H	H	A	H	A	A	A	H	A	A	A	A	A	A	H
A	A	A	A	H	A	A	A	A	A	A	A	A	A	A	A
A	H	H	A	H	A	A	A	A	A	A	A	A	A	A	A
H	H	H	A	H	A	H	A	H	H	A	H	A	A	H	H
H	A	A	A	H	A	A	H	A	H	A	-	H	A	H	A
H	A	A	H	H	A	A	H	A	H	A	H	A	A	H	H
A	H	H	H	A	H	H	A	H	A	H	A	A	H	A	H
H	H	H	A	A	A	H	H	H	H	A	H	A	A	H	A
H	H	H	A	H	A	H	A	H	H	H	H	H	H	A	H
H	H	H	A	H	A	A	H	A	H	H	H	H	H	H	A
A	H	A	H	A	A	H	H	A	H	A	A	A	H	A	A
H	H	H	A	H	A	H	A	H	H	H	H	A	H	H	H
A	A	A	H	A	H	H	A	A	A	H	H	A	H	A	A
H	H	H	H	H	H	H	A	H	H	H	H	A	A	H	H
H	H	A	H	A	H	A	A	H	H	A	H	H	A	A	A
A	A	A	A	A	A	H	A	A	H	H	A	A	A	A	H
H	H	A	A	H	A	H	H	H	A	H	H	A	A	H	H

A	A	H	A	H	H	H	A	A	A	A	H	A	H	H		
A	H	H	A	H	A	H	H	A	H	H	H	A	H	A	H	
A	H	H	A	H	A	A	H	A	H	H	H	H	H	A	H	
A	H	H	H	H	H	A	H	H	-	H	H	A	A	H	H	
H	A	H	H	A	H	H	A	H	-	A	H	H	H	A	A	
A	A	A	H	H	H	A	H	H	-	H	A	-	H	A	-	
A	A	H	A	A	H	H	A	H	A	A	A	A	H	A	A	
H	-	H	A	A	A	A	A	H	H	H	A	H	H	H	A	
A	H	H	A	H	H	A	A	A	A	A	H	A	A	H	A	
H	A	H	H	A	H	A	A	A	H	H	H	A	H	H	H	
A	H	A	A	H	A	A	H	A	H	A	H	H	A	H	A	
H	A	A	A	H	A	A	H	A	A	H	A	H	H	H	H	
H	A	H	A	H	A	A	H	A	H	H	H	H	H	H	A	
A	A	A	A	A	A	H	A	H	A	A	A	H	A	A	A	
H	H	A	H	H	H	H	H	A	H	A	H	A	H	H	A	
A	A	H	A	A	H	H	A	H	A	A	A	A	A	H	A	
H	A	A	H	H	H	A	A	A	H	A	A	A	H	H	A	
H	A	A	H	A	A	H	-	A	A	A	A	A	H	H	A	
A	A	H	A	H	A	H	A	H	A	A	A	H	H	A	H	
H	H	A	H	H	H	H	H	H	H	H	H	A	A	A	H	H
H	A	A	A	A	A	H	A	A	H	A	A	H	H	A	A	
A	H	H	H	A	H	H	A	H	H	H	H	A	A	A	H	
A	A	A	H	H	H	A	H	H	H	A	H	A	H	A	A	
A	H	A	H	A	A	H	-	A	A	A	H	-	-	A	A	
H	A	H	A	A	A	A	H	A	H	H	A	H	H	A	A	
A	A	A	-	A	A	A	A	H	A	H	H	A	A	A	A	
A	H	H	H	H	H	A	H	H	A	H	H	A	A	H	H	
H	A	H	A	A	H	A	A	H	H	H	H	H	A	H	H	
A	A	A	H	A	A	H	A	H	A	A	A	H	H	A	H	
H	H	A	H	H	A	A	-	A	A	A	H	H	H	A	A	
A	A	H	A	A	H	H	-	H	H	H	A	A	A	H	H	
H	H	H	A	H	H	A	H	H	A	H	H	A	A	H	A	
A	H	A	H	H	A	H	A	H	A	A	H	A	H	A	H	
A	A	A	A	A	A	H	A	A	H	A	A	H	H	A	A	
A	H	H	A	A	A	A	A	H	H	H	A	A	A	H	A	
A	A	A	H	A	A	H	A	A	H	A	A	H	H	A	A	
H	H	H	A	H	A	H	H	H	A	A	A	H	H	H	A	
H	A	A	A	H	H	A	H	A	A	A	H	A	H	A	A	
A	A	A	H	A	A	H	H	H	A	A	A	H	H	H	A	
H	A	A	H	A	A	H	H	A	H	A	H	A	H	A	A	
A	H	A	H	H	A	H	A	H	A	H	H	H	A	A	A	
A	H	A	H	H	A	H	A	H	A	H	H	H	A	A	A	
A	A	A	A	H	A	H	A	A	A	A	A	H	A	A	H	
A	H	A	H	A	A	A	H	H	H	H	H	A	H	H	A	
H	H	A	A	H	A	A	A	A	H	A	H	H	A	A	A	
H	H	A	H	H	A	H	-	A	A	A	A	A	A	H	H	
A	A	A	H	H	A	A	-	A	H	A	A	A	A	H	A	
A	H	A	A	H	H	H	-	A	A	A	H	A	A	H	H	
H	H	A	H	A	H	A	H	H	H	A	A	H	H	H	H	
A	H	A	A	H	A	A	H	A	H	H	H	A	H	A	A	
H	A	A	A	H	A	A	H	A	H	H	H	A	H	H	H	
A	H	H	H	H	H	H	H	A	A	A	H	A	A	A	H	
H	H	A	H	A	A	A	A	H	H	H	A	A	H	A	A	
H	H	A	A	A	A	H	A	A	H	A	A	H	H	A	H	
A	A	A	H	A	A	A	A	H	A	H	H	H	A	H	H	
H	A	H	A	A	A	H	H	A	H	A	H	A	A	A	H	

all

A	H	-	A	H	H	A	A	A	A	H	H	A	A	H	H
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---