

```
HMM 3 with model 50 has score 0.00000
HMM 3 with model 51 has score 0.00000
HMM 3 with model 52 has score 0.73077
HMM 3 with model 53 has score 0.00000
HMM 3 with model 54 has score 0.00000
HMM 3 with model 55 has score 0.00000
HMM 3 with model 56 has score 0.00000
HMM 3 with model 57 has score 0.73077
HMM 3 with model 58 has score 0.00000
HMM 3 with model 59 has score 0.00000
HMM 3 with model 60 has score 0.73077
HMM 3 with model 61 has score 0.00000
HMM 3 with model 62 has score 0.03846
HMM 3 with model 63 has score 0.73077
HMM 3 with model 64 has score 0.00000
HMM 3 with model 65 has score 0.73077
HMM 3 with model 66 has score 0.00000
HMM 3 with model 67 has score 0.73077
HMM 3 with model 68 has score 0.00000
HMM 3 with model 69 has score 0.00000
HMM 3 with model 70 has score 0.00000
HMM 3 with model 71 has score 0.73077
HMM 3 with model 72 has score 0.73077
HMM 3 with model 73 has score 0.00000
HMM 3 with model 74 has score 0.00000
HMM 3 with model 75 has score 0.00000
HMM 3 with model 76 has score 0.00000
HMM 3 with model 77 has score 0.00000
HMM 3 with model 78 has score 0.03846
HMM 3 with model 79 has score 0.23077
HMM 3 with model 80 has score 0.11538
HMM 3 with model 81 has score 0.19231
HMM 3 with model 82 has score 0.00000
HMM 3 with model 83 has score 0.03846
HMM 3 with model 84 has score 0.03846
HMM 3 with model 85 has score 0.73077
HMM 3 with model 86 has score 0.07692
HMM 3 with model 87 has score 0.00000
HMM 3 with model 88 has score 0.73077
HMM 3 with model 89 has score 0.00000
HMM 3 with model 90 has score 0.03846
HMM 3 with model 91 has score 0.73077
HMM 3 with model 92 has score 0.73077
HMM 3 with model 93 has score 0.00000
HMM 3 with model 94 has score 0.73077
HMM 3 with model 95 has score 0.00000
HMM 3 with model 96 has score 0.50000
HMM 3 with model 97 has score 0.00000
HMM 3 with model 98 has score 0.03846
HMM 3 with model 99 has score 0.00000
HMM 3 with model 100 has score 0.73077
The best score for HMM 3 was with model 44 with score 0.76923
```

```
(base) Yashs-MacBook-Pro:Assignment2 yash$
(base) Yashs-MacBook-Pro:Assignment2 yash$ clear
```

```
(base) Yashs-MacBook-Pro:Assignment2 yash$ gcc hmm.c -o hmm
(base) Yashs-MacBook-Pro:Assignment2 yash$ ./hmm BrownCorpus 15 1000 1000 200 548
```



```
HMM 1 with model 1 has score 0.07692
The best score for HMM 1 was with model 1 with score 0.07692
```

```
HMM 2 with model 1 has score 0.00000
HMM 2 with model 2 has score 0.03846
HMM 2 with model 3 has score 0.73077
HMM 2 with model 4 has score 0.03846
HMM 2 with model 5 has score 0.73077
HMM 2 with model 6 has score 0.73077
HMM 2 with model 7 has score 0.00000
HMM 2 with model 8 has score 0.73077
HMM 2 with model 9 has score 0.00000
HMM 2 with model 10 has score 0.00000
The best score for HMM 2 was with model 3 with score 0.73077
```

```
HMM 3 with model 1 has score 0.03846
HMM 3 with model 2 has score 0.00000
HMM 3 with model 3 has score 0.73077
HMM 3 with model 4 has score 0.03846
HMM 3 with model 5 has score 0.00000
HMM 3 with model 6 has score 0.73077
HMM 3 with model 7 has score 0.73077
HMM 3 with model 8 has score 0.03846
HMM 3 with model 9 has score 0.03846
HMM 3 with model 10 has score 0.03846
HMM 3 with model 11 has score 0.03846
HMM 3 with model 12 has score 0.73077
HMM 3 with model 13 has score 0.00000
HMM 3 with model 14 has score 0.03846
HMM 3 with model 15 has score 0.73077
HMM 3 with model 16 has score 0.00000
HMM 3 with model 17 has score 0.00000
HMM 3 with model 18 has score 0.00000
HMM 3 with model 19 has score 0.00000
HMM 3 with model 20 has score 0.00000
HMM 3 with model 21 has score 0.73077
HMM 3 with model 22 has score 0.34615
HMM 3 with model 23 has score 0.00000
HMM 3 with model 24 has score 0.73077
HMM 3 with model 25 has score 0.03846
HMM 3 with model 26 has score 0.00000
HMM 3 with model 27 has score 0.26923
HMM 3 with model 28 has score 0.73077
HMM 3 with model 29 has score 0.03846
HMM 3 with model 30 has score 0.03846
HMM 3 with model 31 has score 0.73077
HMM 3 with model 32 has score 0.73077
HMM 3 with model 33 has score 0.73077
HMM 3 with model 34 has score 0.73077
HMM 3 with model 35 has score 0.73077
HMM 3 with model 36 has score 0.03846
HMM 3 with model 37 has score 0.00000
HMM 3 with model 38 has score 0.03846
HMM 3 with model 39 has score 0.15385
HMM 3 with model 40 has score 0.73077
HMM 3 with model 41 has score 0.73077
HMM 3 with model 42 has score 0.03846
HMM 3 with model 43 has score 0.00000
HMM 3 with model 44 has score 0.73077
HMM 3 with model 45 has score 0.03846
HMM 3 with model 46 has score 0.03846
HMM 3 with model 47 has score 0.00000
HMM 3 with model 48 has score 0.69231
HMM 3 with model 49 has score 0.26923
HMM 3 with model 50 has score 0.03846
HMM 3 with model 51 has score 0.73077
HMM 3 with model 52 has score 0.03846
HMM 3 with model 53 has score 0.00000
HMM 3 with model 54 has score 0.73077
HMM 3 with model 55 has score 0.73077
HMM 3 with model 56 has score 0.73077
HMM 3 with model 57 has score 0.00000
HMM 3 with model 58 has score 0.00000
HMM 3 with model 59 has score 0.73077
```


HMM	4	with model	92	has score	0.15385
HMM	4	with model	93	has score	0.73077
HMM	4	with model	94	has score	0.03846
HMM	4	with model	95	has score	0.03846
HMM	4	with model	96	has score	0.73077
HMM	4	with model	98	has score	0.73077
HMM	4	with model	98	has score	0.73077
HMM	4	with model	99	has score	0.73077
HMM	4	with model	100	has score	0.07692
HMM	4	with model	101	has score	0.11538
HMM	4	with model	102	has score	0.03846
HMM	4	with model	103	has score	0.00000
HMM	4	with model	104	has score	0.00000
HMM	4	with model	105	has score	0.00000
HMM	4	with model	106	has score	0.03846
HMM	4	with model	107	has score	0.73077
HMM	4	with model	108	has score	0.73077
HMM	4	with model	109	has score	0.73077
HMM	4	with model	110	has score	0.73077
HMM	4	with model	111	has score	0.00000
HMM	4	with model	112	has score	0.73077
HMM	4	with model	113	has score	0.73077
HMM	4	with model	114	has score	0.00000
HMM	4	with model	115	has score	0.00000
HMM	4	with model	116	has score	0.73077
HMM	4	with model	117	has score	0.03846
HMM	4	with model	118	has score	0.73077
HMM	4	with model	119	has score	0.00000
HMM	4	with model	120	has score	0.73077
HMM	4	with model	121	has score	0.73077
HMM	4	with model	122	has score	0.73077
HMM	4	with model	123	has score	0.23077
HMM	4	with model	124	has score	0.03846
HMM	4	with model	125	has score	0.03846
HMM	4	with model	126	has score	0.73077
HMM	4	with model	127	has score	0.03846
HMM	4	with model	128	has score	0.73077
HMM	4	with model	129	has score	0.73077
HMM	4	with model	130	has score	0.73077
HMM	4	with model	131	has score	0.00000
HMM	4	with model	132	has score	0.00000
HMM	4	with model	133	has score	0.03846
HMM	4	with model	134	has score	0.73077
HMM	4	with model	135	has score	0.03846
HMM	4	with model	136	has score	0.00000
HMM	4	with model	137	has score	0.00000
HMM	4	with model	138	has score	0.73077
HMM	4	with model	139	has score	0.03846
HMM	4	with model	140	has score	0.73077
HMM	4	with model	141	has score	0.73077
HMM	4	with model	142	has score	0.00000
HMM	4	with model	143	has score	0.00000
HMM	4	with model	144	has score	0.00000
HMM	4	with model	145	has score	0.03846
HMM	4	with model	146	has score	0.00000
HMM	4	with model	147	has score	0.03846
HMM	4	with model	148	has score	0.00000
HMM	4	with model	149	has score	0.03846
HMM	4	with model	150	has score	0.73077
HMM	4	with model	151	has score	0.00000
HMM	4	with model	152	has score	0.00000
HMM	4	with model	153	has score	0.00000
HMM	4	with model	154	has score	0.73077
HMM	4	with model	155	has score	0.03846
HMM	4	with model	156	has score	0.73077
HMM	4	with model	157	has score	0.73077
HMM	4	with model	158	has score	0.03846
HMM	4	with model	159	has score	0.73077
HMM	4	with model	160	has score	0.73077
HMM	4	with model	161	has score	0.73077
HMM	4	with model	162	has score	0.03846
HMM	4	with model	163	has score	0.03846
HMM	4	with model	164	has score	0.03846
HMM	4	with model	165	has score	0.03846
HMM	4	with model	166	has score	0.00000
HMM	4	with model	167	has score	0.03846
HMM	4	with model	168	has score	0.03846
HMM	4	with model	169	has score	0.73077
HMM	4	with model	170	has score	0.00000
HMM	4	with model	171	has score	0.03846
HMM	4	with model	172	has score	0.11538
HMM	4	with model	173	has score	0.00000

HMM	4	with	model	227	has	score	0.73077
HMM	4	with	model	228	has	score	0.73077
HMM	4	with	model	229	has	score	0.23077
HMM	4	with	model	230	has	score	0.00000
HMM	4	with	model	231	has	score	0.73077
HMM	4	with	model	232	has	score	0.15385
HMM	4	with	model	233	has	score	0.00000
HMM	4	with	model	234	has	score	0.03846
HMM	4	with	model	235	has	score	0.73077
HMM	4	with	model	236	has	score	0.73077
HMM	4	with	model	237	has	score	0.73077
HMM	4	with	model	238	has	score	0.73077
HMM	4	with	model	239	has	score	0.00000
HMM	4	with	model	240	has	score	0.00000
HMM	4	with	model	241	has	score	0.00000
HMM	4	with	model	242	has	score	0.00000
HMM	4	with	model	243	has	score	0.73077
HMM	4	with	model	244	has	score	0.03846
HMM	4	with	model	245	has	score	0.03846
HMM	4	with	model	246	has	score	0.73077
HMM	4	with	model	247	has	score	0.73077
HMM	4	with	model	248	has	score	0.00000
HMM	4	with	model	249	has	score	0.00000
HMM	4	with	model	250	has	score	0.73077
HMM	4	with	model	251	has	score	0.07692
HMM	4	with	model	252	has	score	0.73077
HMM	4	with	model	253	has	score	0.00000
HMM	4	with	model	254	has	score	0.00000
HMM	4	with	model	255	has	score	0.00000
HMM	4	with	model	256	has	score	0.73077
HMM	4	with	model	257	has	score	0.00000
HMM	4	with	model	258	has	score	0.69231
HMM	4	with	model	259	has	score	0.03846
HMM	4	with	model	260	has	score	0.00000
HMM	4	with	model	261	has	score	0.73077
HMM	4	with	model	262	has	score	0.07692
HMM	4	with	model	263	has	score	0.73077
HMM	4	with	model	264	has	score	0.00000
HMM	4	with	model	265	has	score	0.00000
HMM	4	with	model	266	has	score	0.03846
HMM	4	with	model	267	has	score	0.07692
HMM	4	with	model	268	has	score	0.03846
HMM	4	with	model	269	has	score	0.73077
HMM	4	with	model	270	has	score	0.03846
HMM	4	with	model	271	has	score	0.73077
HMM	4	with	model	272	has	score	0.00000
HMM	4	with	model	273	has	score	0.73077
HMM	4	with	model	274	has	score	0.73077
HMM	4	with	model	275	has	score	0.00000
HMM	4	with	model	276	has	score	0.15385
HMM	4	with	model	277	has	score	0.46154
HMM	4	with	model	278	has	score	0.03846
HMM	4	with	model	279	has	score	0.73077
HMM	4	with	model	280	has	score	0.00000
HMM	4	with	model	281	has	score	0.00000
HMM	4	with	model	282	has	score	0.03846
HMM	4	with	model	283	has	score	0.03846
HMM	4	with	model	284	has	score	0.03846
HMM	4	with	model	285	has	score	0.73077
HMM	4	with	model	286	has	score	0.03846
HMM	4	with	model	287	has	score	0.07692
HMM	4	with	model	288	has	score	0.00000
HMM	4	with	model	289	has	score	0.15385
HMM	4	with	model	290	has	score	0.03846
HMM	4	with	model	291	has	score	0.07692
HMM	4	with	model	292	has	score	0.03846
HMM	4	with	model	293	has	score	0.00000
HMM	4	with	model	294	has	score	0.00000
HMM	4						

HMM	4	with model	362	has score	0.93846
HMM	4	with model	363	has score	0.93846
HMM	4	with model	364	has score	0.93846
HMM	4	with model	365	has score	0.90000
HMM	4	with model	366	has score	0.93846
HMM	4	with model	367	has score	0.93846
HMM	4	with model	368	has score	0.93846
HMM	4	with model	369	has score	0.73877
HMM	4	with model	370	has score	0.93846
HMM	4	with model	371	has score	0.90000
HMM	4	with model	372	has score	0.73877
HMM	4	with model	373	has score	0.90000
HMM	4	with model	374	has score	0.90000
HMM	4	with model	375	has score	0.93846
HMM	4	with model	376	has score	0.93846
HMM	4	with model	377	has score	0.93846
HMM	4	with model	378	has score	0.90000
HMM	4	with model	379	has score	0.90000
HMM	4	with model	380	has score	0.90000
HMM	4	with model	381	has score	0.73877
HMM	4	with model	382	has score	0.93846
HMM	4	with model	383	has score	0.93846
HMM	4	with model	384	has score	0.73877
HMM	4	with model	385	has score	0.90000
HMM	4	with model	386	has score	0.73877
HMM	4	with model	387	has score	0.73877
HMM	4	with model	388	has score	0.90000
HMM	4	with model	389	has score	0.73877
HMM	4	with model	390	has score	0.73877
HMM	4	with model	391	has score	0.93846
HMM	4	with model	392	has score	0.93846
HMM	4	with model	393	has score	0.90000
HMM	4	with model	394	has score	0.73877
HMM	4	with model	395	has score	0.73877
HMM	4	with model	396	has score	0.90000
HMM	4	with model	397	has score	0.93846
HMM	4	with model	398	has score	0.93846
HMM	4	with model	399	has score	0.93846
HMM	4	with model	400	has score	0.90000
HMM	4	with model	401	has score	0.93846
HMM	4	with model	402	has score	0.90000
HMM	4	with model	403	has score	0.90000
HMM	4	with model	404	has score	0.73877
HMM	4	with model	405	has score	0.90000
HMM	4	with model	406	has score	0.73877
HMM	4	with model	407	has score	0.93846
HMM	4	with model	408	has score	0.23877
HMM	4	with model	409	has score	0.90000
HMM	4	with model	410	has score	0.93846
HMM	4	with model	411	has score	0.97692
HMM	4	with model	412	has score	0.93846
HMM	4	with model	413	has score	0.93846
HMM	4	with model	414	has score	0.93846
HMM	4	with model	415	has score	0.93846
HMM	4	with model	416	has score	0.93846
HMM	4	with model	417	has score	0.73877
HMM	4	with model	418	has score	0.73877
HMM	4	with model	419	has score	0.90000
HMM	4	with model	420	has score	0.90000
HMM	4	with model	421	has score	0.73877
HMM	4	with model	422	has score	0.90000
HMM	4	with model	423	has score	0.90000
HMM	4	with model	424	has score	0.73877
HMM	4	with model	425	has score	0.93846
HMM	4	with model	426	has score	0.90000
HMM	4	with model	427	has score	0.73877
HMM	4	with model	428	has score	0.73877
HMM	4	with model	429	has score	0.73877
HMM	4	with model	430	has score	0.93846
HMM	4	with model	431	has score	0.93846
HMM	4	with model	432	has score	0.73877
HMM	4	with model	433	has score	0.90000
HMM	4	with model	434	has score	0.73877
HMM	4	with model	435	has score	0.97692
HMM	4	with model	436	has score	0.73877
HMM	4	with model	437	has score	0.15385
HMM	4	with model	438	has score	0.93846
HMM	4	with model	439	has score	0.73877
HMM	4	with model	440	has score	0.73877
HMM	4	with model	441	has score	0.93846
HMM	4	with model	442	has score	0.73877
HMM	4	with model	443	has score	0.9384

HMM	4	with model	497	has score	0.00000
HMM	4	with model	498	has score	0.00000
HMM	4	with model	499	has score	0.07692
HMM	4	with model	500	has score	0.73777
HMM	4	with model	501	has score	0.00000
HMM	4	with model	502	has score	0.73777
HMM	4	with model	503	has score	0.00000
HMM	4	with model	504	has score	0.03846
HMM	4	with model	505	has score	0.00000
HMM	4	with model	506	has score	0.73777
HMM	4	with model	507	has score	0.03846
HMM	4	with model	508	has score	0.03846
HMM	4	with model	509	has score	0.15385
HMM	4	with model	510	has score	0.00000
HMM	4	with model	511	has score	0.73777
HMM	4	with model	512	has score	0.73777
HMM	4	with model	513	has score	0.73777
HMM	4	with model	514	has score	0.73777
HMM	4	with model	515	has score	0.03846
HMM	4	with model	516	has score	0.73777
HMM	4	with model	517	has score	0.73777
HMM	4	with model	518	has score	0.00000
HMM	4	with model	519	has score	0.73777
HMM	4	with model	520	has score	0.73777
HMM	4	with model	521	has score	0.00000
HMM	4	with model	522	has score	0.03846
HMM	4	with model	523	has score	0.00000
HMM	4	with model	524	has score	0.73777
HMM	4	with model	525	has score	0.73777
HMM	4	with model	526	has score	0.00000
HMM	4	with model	527	has score	0.00000
HMM	4	with model	528	has score	0.00000
HMM	4	with model	529	has score	0.73777
HMM	4	with model	530	has score	0.00000
HMM	4	with model	531	has score	0.00000
HMM	4	with model	532	has score	0.73777
HMM	4	with model	533	has score	0.73777
HMM	4	with model	534	has score	0.00000
HMM	4	with model	535	has score	0.03846
HMM	4	with model	536	has score	0.00000
HMM	4	with model	537	has score	0.73777
HMM	4	with model	538	has score	0.73777
HMM	4	with model	539	has score	0.03846
HMM	4	with model	540	has score	0.03846
HMM	4	with model	541	has score	0.00000
HMM	4	with model	542	has score	0.00000
HMM	4	with model	543	has score	0.03846
HMM	4	with model	544	has score	0.00000
HMM	4	with model	545	has score	0.73777
HMM	4	with model	546	has score	0.73777
HMM	4	with model	547	has score	0.03846
HMM	4	with model	548	has score	0.00000
HMM	4	with model	549	has score	0.73777
HMM	4	with model	550	has score	0.03846
HMM	4	with model	551	has score	0.03846
HMM	4	with model	552	has score	0.73777
HMM	4	with model	553	has score	0.73777
HMM	4	with model	554	has score	0.73777
HMM	4	with model	555	has score	0.03846
HMM	4	with model	556	has score	0.00000
HMM	4	with model	557	has score	0.00000
HMM	4	with model	558	has score	0.00000
HMM	4	with model	559	has score	0.73777
HMM	4	with model	560	has score	0.03846
HMM	4	with model	561	has score	0.73777
HMM	4	with model	562	has score	0.73777
HMM	4	with model	563	has score	0.00000
HMM	4	with model	564	has score	0.76923
HMM	4	with model	565	has score	0.38769
HMM	4	with model	566	has score	0.00000
HMM	4	with model	568	has score	0.03846
HMM	4	with model	569	has score	0.03846
HMM	4	with model	570	has score	0.73777
HMM	4	with model	571	has score	0.76923
HMM	4	with model	572	has score	0.73777
HMM	4	with model	573	has score	0.00000
HMM	4	with model	574	has score	0.03846
HMM	4	with model	575	has score	0.03846
HMM	4	with model	576	has score	0.73777
HMM	4	with model	577	has score	0.03846
HMM	4	with model	578	has score	0.73777
HMM	4	with model	579	has score	0.0000

HMM	4	with model	632	has score	0.0000
HMM	4	with model	633	has score	0.73077
HMM	4	with model	634	has score	0.03846
HMM	4	with model	635	has score	0.00000
HMM	4	with model	636	has score	0.73077
HMM	4	with model	637	has score	0.00000
HMM	4	with model	638	has score	0.00000
HMM	4	with model	639	has score	0.73077
HMM	4	with model	640	has score	0.73077
HMM	4	with model	641	has score	0.73077
HMM	4	with model	642	has score	0.03846
HMM	4	with model	643	has score	0.73077
HMM	4	with model	644	has score	0.03846
HMM	4	with model	645	has score	0.00000
HMM	4	with model	646	has score	0.00000
HMM	4	with model	647	has score	0.03846
HMM	4	with model	648	has score	0.00000
HMM	4	with model	649	has score	0.07592
HMM	4	with model	650	has score	0.00000
HMM	4	with model	651	has score	0.73077
HMM	4	with model	652	has score	0.00000
HMM	4	with model	653	has score	0.00000
HMM	4	with model	654	has score	0.03846
HMM	4	with model	655	has score	0.00000
HMM	4	with model	656	has score	0.19231
HMM	4	with model	657	has score	0.73077
HMM	4	with model	658	has score	0.73077
HMM	4	with model	659	has score	0.73077
HMM	4	with model	660	has score	0.00000
HMM	4	with model	661	has score	0.73077
HMM	4	with model	662	has score	0.73077
HMM	4	with model	663	has score	0.73077
HMM	4	with model	664	has score	0.03846
HMM	4	with model	665	has score	0.11538
HMM	4	with model	666	has score	0.73077
HMM	4	with model	667	has score	0.00000
HMM	4	with model	668	has score	0.03846
HMM	4	with model	669	has score	0.00000
HMM	4	with model	670	has score	0.73077
HMM	4	with model	671	has score	0.00000
HMM	4	with model	672	has score	0.34615
HMM	4	with model	673	has score	0.03846
HMM	4	with model	674	has score	0.00000
HMM	4	with model	675	has score	0.03846
HMM	4	with model	676	has score	0.73077
HMM	4	with model	677	has score	0.00000
HMM	4	with model	678	has score	0.73077
HMM	4	with model	679	has score	0.03846
HMM	4	with model	680	has score	0.73077
HMM	4	with model	681	has score	0.73077
HMM	4	with model	682	has score	0.00000
HMM	4	with model	683	has score	0.73077
HMM	4	with model	684	has score	0.00000
HMM	4	with model	685	has score	0.03846
HMM	4	with model	686	has score	0.00000
HMM	4	with model	687	has score	0.00000
HMM	4	with model	688	has score	0.73077
HMM	4	with model	689	has score	0.00000
HMM	4	with model	690	has score	0.00000
HMM	4	with model	691	has score	0.73077
HMM	4	with model	692	has score	0.00000
HMM	4	with model	693	has score	0.00000
HMM	4	with model	694	has score	0.73077
HMM	4	with model	695	has score	0.73077
HMM	4	with model	696	has score	0.03846
HMM	4	with model	697	has score	0.15138
HMM	4	with model	698	has score	0.00000
HMM	4	with model	699	has score	0.00000
HMM	4	with model	700	has score	0.00000
HMM	4	with model	701	has score	0.73077
HMM	4	with model	702	has score	0.73077
HMM	4	with model	703	has score	0.00000
HMM	4	with model	704	has score	0.00000
HMM	4	with model	705	has score	0.03846
HMM	4	with model	706	has score	0.03846
HMM	4	with model	707	has score	0.03846
HMM	4	with model	708	has score	0.07592
HMM	4	with model	709	has score	0.00000
HMM	4	with model	710	has score	0.00000
HMM	4	with model	711	has score	0.00000
HMM	4	with model	712	has score	0.69231
HMM	4	with model	713	has score	0.00000

[illegible]

HMM 4 with model 902 has score 0.73077
HMM 4 with model 903 has score 0.00000
HMM 4 with model 904 has score 0.73077
HMM 4 with model 905 has score 0.00000
HMM 4 with model 906 has score 0.00000
HMM 4 with model 907 has score 0.34615
HMM 4 with model 908 has score 0.73077
HMM 4 with model 909 has score 0.03846
HMM 4 with model 910 has score 0.00000
HMM 4 with model 911 has score 0.00000
HMM 4 with model 912 has score 0.73077
HMM 4 with model 913 has score 0.73077
HMM 4 with model 914 has score 0.73077
HMM 4 with model 915 has score 0.00000
HMM 4 with model 916 has score 0.73077
HMM 4 with model 917 has score 0.73077
HMM 4 with model 918 has score 0.03846
HMM 4 with model 919 has score 0.73077
HMM 4 with model 920 has score 0.03846
HMM 4 with model 921 has score 0.00000
HMM 4 with model 922 has score 0.00000
HMM 4 with model 923 has score 0.03846
HMM 4 with model 924 has score 0.00000
HMM 4 with model 925 has score 0.03846
HMM 4 with model 926 has score 0.00000
HMM 4 with model 927 has score 0.73077
HMM 4 with model 928 has score 0.69231
HMM 4 with model 929 has score 0.19231
HMM 4 with model 930 has score 0.03846
HMM 4 with model 931 has score 0.00000
HMM 4 with model 932 has score 0.00000
HMM 4 with model 933 has score 0.07692
HMM 4 with model 934 has score 0.73077
HMM 4 with model 935 has score 0.00000
HMM 4 with model 936 has score 0.15385
HMM 4 with model 937 has score 0.03846
HMM 4 with model 938 has score 0.73077
HMM 4 with model 939 has score 0.73077
HMM 4 with model 940 has score 0.00000
HMM 4 with model 941 has score 0.03846
HMM 4 with model 942 has score 0.00000
HMM 4 with model 943 has score 0.00000
HMM 4 with model 944 has score 0.00000
HMM 4 with model 945 has score 0.73077
HMM 4 with model 946 has score 0.00000
HMM 4 with model 947 has score 0.00000
HMM 4 with model 948 has score 0.00000
HMM 4 with model 949 has score 0.73077
HMM 4 with model 950 has score 0.00000
HMM 4 with model 951 has score 0.73077
HMM 4 with model 952 has score 0.73077
HMM 4 with model 953 has score 0.73077
HMM 4 with model 954 has score 0.73077
HMM 4 with model 955 has score 0.00000
HMM 4 with model 956 has score 0.00000
HMM 4 with model 957 has score 0.00000
HMM 4 with model 958 has score 0.07692
HMM 4 with model 959 has score 0.00000
HMM 4 with model 960 has score 0.73077
HMM 4 with model 961 has score 0.73077
HMM 4 with model 962 has score 0.03846
HMM 4 with model 963 has score 0.73077
HMM 4 with model 964 has score 0.00000
HMM 4 with model 965 has score 0.00000
HMM 4 with model 966 has score 0.00000
HMM 4 with model 967 has score 0.00000
HMM 4 with model 968 has score 0.03846
HMM 4 with model 969 has score 0.73077
HMM 4 with model 970 has score 0.03846
HMM 4 with model 971 has score 0.73077
HMM 4 with model 972 has score 0.03846
HMM 4 with model 973 has score 0.07692
HMM 4 with model 974 has score 0.03846
HMM 4 with model 975 has score 0.03846
HMM 4 with model 976 has score 0.00000
HMM 4 with model 977 has score 0.73077
HMM 4 with model 978 has score 0.73077
HMM 4 with model 979 has score 0.73077
HMM 4 with model 980 has score 0.73077
HMM 4 with model 981 has score 0.00000
HMM 4 with model 982 has score 0.03846
HMM 4 with model 983 has score 0.07692
HMM 4 with model 984 has score 0.73077
HMM 4 with model 985 has score 0.00000
HMM 4 with model 986 has score 0.73077
HMM 4 with model 987 has score 0.73077
HMM 4 with model 988 has score 0.15385
HMM 4 with model 989 has score 0.00000
HMM 4 with model 990 has score 0.00000
HMM 4 with model 991 has score 0.73077
HMM 4 with model 992 has score 0.73077
HMM 4 with model 993 has score 0.03846
HMM 4 with model 994 has score 0.73077
HMM 4 with model 995 has score 0.00000
HMM 4 with model 996 has score 0.03846
HMM 4 with model 997 has score 0.03846
HMM 4 with model 998 has score 0.03846
HMM 4 with model 999 has score 0.03846
HMM 4 with model 1000 has score 0.73077
The best score for HMM 4 was with model 51 with score 0.00769

(base) Yashs-MacBook-Pro:Assignment2 yash\$./hmm BrownCorpus 15 1000 400 200 548

HMM 1 with model 1 has score 0.00000
The best score for HMM 1 was with model 1 with score 0.00000

HMM 2 with model 1 has score 0.00000
HMM 2 with model 2 has score 0.00000
HMM 2 with model 3 has score 0.00000
HMM 2 with model 4 has score 0.15385
HMM 2 with model 5 has score 0.00000
HMM 2 with model 6 has score 0.00000
HMM 2 with model 7 has score 0.73077
HMM 2 with model 8 has score 0.73077
HMM 2 with model 9 has score 0.00000
HMM 2 with model 10 has score 0.00000
The best score for HMM 2 was with model 7 with score 0.73077

HMM 3 with model 1 has score 0.00000
HMM 3 with model 2 has score 0.00000
HMM 3 with model 3 has score 0.38462
HMM 3 with model 4 has score 0.73077
HMM 3 with model 5 has score 0.00000
HMM 3 with model 6 has score 0.00000
HMM 3 with model 7 has score 0.00000
HMM 3 with model 8 has score 0.00000
HMM 3 with model 9 has score 0.00000
HMM 3 with model 10 has score 0.00000
HMM 3 with model 11 has score 0.00000
HMM 3 with model 12 has score 0.61538
HMM 3 with model 13 has score 0.03846
HMM 3 with model 14 has score 0.03846
HMM 3 with model 15 has score 0.73077

HMM	4	with model	48	has score	0.73077
HMM	4	with model	49	has score	0.00000
HMM	4	with model	50	has score	0.00000
HMM	4	with model	51	has score	0.73077
HMM	4	with model	52	has score	0.00000
HMM	4	with model	53	has score	0.00000
HMM	4	with model	54	has score	0.00000
HMM	4	with model	55	has score	0.03846
HMM	4	with model	56	has score	0.69231
HMM	4	with model	57	has score	0.00000
HMM	4	with model	58	has score	0.73077
HMM	4	with model	59	has score	0.73077
HMM	4	with model	60	has score	0.00000
HMM	4	with model	61	has score	0.00000
HMM	4	with model	62	has score	0.73077
HMM	4	with model	63	has score	0.73077
HMM	4	with model	64	has score	0.00000
HMM	4	with model	65	has score	0.73077
HMM	4	with model	66	has score	0.00000
HMM	4	with model	67	has score	0.57692
HMM	4	with model	68	has score	0.00000
HMM	4	with model	69	has score	0.00000
HMM	4	with model	70	has score	0.73077
HMM	4	with model	71	has score	0.00000
HMM	4	with model	72	has score	0.00000
HMM	4	with model	73	has score	0.69231
HMM	4	with model	74	has score	0.73077
HMM	4	with model	75	has score	0.03846
HMM	4	with model	76	has score	0.00000
HMM	4	with model	77	has score	0.00000
HMM	4	with model	78	has score	0.00000
HMM	4	with model	79	has score	0.00000
HMM	4	with model	80	has score	0.00000
HMM	4	with model	81	has score	0.00000
HMM	4	with model	82	has score	0.00000
HMM	4	with model	83	has score	0.00000
HMM	4	with model	84	has score	0.00000
HMM	4	with model	85	has score	0.00000
HMM	4	with model	86	has score	0.00000
HMM	4	with model	87	has score	0.03846
HMM	4	with model	88	has score	0.00000
HMM	4	with model	89	has score	0.00000
HMM	4	with model	90	has score	0.03846
HMM	4	with model	91	has score	0.00000
HMM	4	with model	92	has score	0.73077
HMM	4	with model	93	has score	0.00000
HMM	4	with model	94	has score	0.00000
HMM	4	with model	95	has score	0.00000
HMM	4	with model	96	has score	0.73077
HMM	4	with model	97	has score	0.00000
HMM	4	with model	98	has score	0.03846
HMM	4	with model	99	has score	0.03846
HMM	4	with model	100	has score	0.00000
HMM	4	with model	101	has score	0.00000
HMM	4	with model	102	has score	0.19231
HMM	4	with model	103	has score	0.00000
HMM	4	with model	104	has score	0.00000
HMM	4	with model	105	has score	0.00000
HMM	4	with model	106	has score	0.73077
HMM	4	with model	107	has score	0.11538
HMM	4	with model	108	has score	0.00000
HMM	4	with model	109	has score	0.00000
HMM	4	with model	110	has score	0.00000
HMM	4	with model	111	has score	0.00000
HMM	4	with model	112	has score	0.73077
HMM	4	with model	113	has score	0.00000
HMM	4	with model	114	has score	0.00000
HMM	4	with model	115	has score	0.00000
HMM	4	with model	116	has score	0.00000
HMM	4	with model	117	has score	0.19231
HMM	4	with model	118	has score	0.65385
HMM	4	with model	119	has score	0.00000
HMM	4	with model	120	has score	0.00000
HMM	4	with model	121	has score	0.00000
HMM	4	with model	122	has score	0.73077
HMM	4	with model	123	has score	0.34615
HMM	4	with model	124	has score	0.00000
HMM	4	with model	125	has score	0.03846
HMM	4	with model	126	has score	0.73077
HMM	4	with model	127	has score	0.00000
HMM	4	with model	128	has score	0.73077
HMM	4	with model	129	has score	0.11538
HMM	4	with model	130	has score	0.73077</

HMM	4	with model 183	has score	0.00000
HMM	4	with model 184	has score	0.00000
HMM	4	with model 185	has score	0.00000
HMM	4	with model 186	has score	0.11538
HMM	4	with model 187	has score	0.00000
HMM	4	with model 188	has score	0.00000
HMM	4	with model 189	has score	0.00000
HMM	4	with model 190	has score	0.73077
HMM	4	with model 191	has score	0.73077
HMM	4	with model 192	has score	0.73077
HMM	4	with model 193	has score	0.73077
HMM	4	with model 194	has score	0.03846
HMM	4	with model 195	has score	0.00000
HMM	4	with model 196	has score	0.00000
HMM	4	with model 197	has score	0.73077
HMM	4	with model 198	has score	0.00000
HMM	4	with model 199	has score	0.00000
HMM	4	with model 200	has score	0.00000
HMM	4	with model 201	has score	0.73077
HMM	4	with model 202	has score	0.19231
HMM	4	with model 203	has score	0.00000
HMM	4	with model 204	has score	0.00000
HMM	4	with model 205	has score	0.00000
HMM	4	with model 206	has score	0.00000
HMM	4	with model 207	has score	0.00000
HMM	4	with model 208	has score	0.00000
HMM	4	with model 209	has score	0.00000
HMM	4	with model 210	has score	0.00000
HMM	4	with model 211	has score	0.38462
HMM	4	with model 212	has score	0.00000
HMM	4	with model 213	has score	0.00000
HMM	4	with model 214	has score	0.00000
HMM	4	with model 215	has score	0.69231
HMM	4	with model 216	has score	0.00000
HMM	4	with model 217	has score	0.00000
HMM	4	with model 218	has score	0.00000
HMM	4	with model 219	has score	0.42308
HMM	4	with model 220	has score	0.00000
HMM	4	with model 221	has score	0.00000
HMM	4	with model 222	has score	0.07692
HMM	4	with model 223	has score	0.38462
HMM	4	with model 224	has score	0.00000
HMM	4	with model 225	has score	0.00000
HMM	4	with model 226	has score	0.69231
HMM	4	with model 227	has score	0.73077
HMM	4	with model 228	has score	0.73077
HMM	4	with model 229	has score	0.73077
HMM	4	with model 230	has score	0.00000
HMM	4	with model 231	has score	0.19231
HMM	4	with model 232	has score	0.00000
HMM	4	with model 233	has score	0.00000
HMM	4	with model 234	has score	0.00000
HMM	4	with model 235	has score	0.00000
HMM	4	with model 236	has score	0.00000
HMM	4	with model 237	has score	0.00000
HMM	4	with model 238	has score	0.00000
HMM	4	with model 239	has score	0.00000
HMM	4	with model 240	has score	0.26923
HMM	4	with model 241	has score	0.00000
HMM	4	with model 242	has score	0.03846
HMM	4	with model 243	has score	0.00000
HMM	4	with model 244	has score	0.00000
HMM	4	with model 245	has score	0.73077
HMM	4	with model 246	has score	0.57692
HMM	4	with model 247	has score	0.00000
HMM	4	with model 248	has score	0.03846
HMM	4	with model 249	has score	0.07692
HMM	4	with model 250	has score	0.03846
HMM	4	with model 251	has score	0.73077
HMM	4	with model 252	has score	0.00000
HMM	4	with model 253	has score	0.00000
HMM	4	with model 254	has score	0.00000
HMM	4	with model 255	has score	0.00000
HMM	4	with model 256	has score	0.00000
HMM	4	with model 257	has score	0.38462
HMM	4	with model 258	has score	0.00000
HMM	4	with model 259	has score	0.00000
HMM	4	with model 260	has score	0.73077
HMM	4	with model 261	has score	0.00000
HMM	4	with model 262	has score	0.03846
HMM	4	with model 263	has score	0.57692
HMM	4	with model 264	has score	0.00000
HMM	4	with model 265	has score	0.00000
HMM	4	with model 266	has score	0.00000
HMM	4	with model 267	has score	0.00000
HMM	4	with model 268	has score	0.00000
HMM	4	with model 269	has score	0.00000
HMM	4	with model 270	has score	0.00000
HMM	4	with model 271	has score	0.73077

HMM	4	with model	318	has score	0.00000
HMM	4	with model	319	has score	0.34615
HMM	4	with model	320	has score	0.03846
HMM	4	with model	321	has score	0.19231
HMM	4	with model	322	has score	0.00000
HMM	4	with model	323	has score	0.03846
HMM	4	with model	324	has score	0.00000
HMM	4	with model	325	has score	0.00000
HMM	4	with model	326	has score	0.00000
HMM	4	with model	327	has score	0.07692
HMM	4	with model	328	has score	0.73877
HMM	4	with model	329	has score	0.00000
HMM	4	with model	330	has score	0.73877
HMM	4	with model	331	has score	0.73877
HMM	4	with model	332	has score	0.00000
HMM	4	with model	333	has score	0.00000
HMM	4	with model	334	has score	0.73877
HMM	4	with model	335	has score	0.15385
HMM	4	with model	336	has score	0.00000
HMM	4	with model	337	has score	0.00000
HMM	4	with model	338	has score	0.03846
HMM	4	with model	339	has score	0.00000
HMM	4	with model	340	has score	0.00000
HMM	4	with model	341	has score	0.00000
HMM	4	with model	342	has score	0.00000
HMM	4	with model	343	has score	0.03846
HMM	4	with model	344	has score	0.00000
HMM	4	with model	345	has score	0.00000
HMM	4	with model	346	has score	0.69231
HMM	4	with model	347	has score	0.00000
HMM	4	with model	348	has score	0.00000
HMM	4	with model	349	has score	0.00000
HMM	4	with model	350	has score	0.73877
HMM	4	with model	351	has score	0.00000
HMM	4	with model	352	has score	0.00000
HMM	4	with model	353	has score	0.73877
HMM	4	with model	354	has score	0.03846
HMM	4	with model	355	has score	0.15385
HMM	4	with model	356	has score	0.00000
HMM	4	with model	357	has score	0.73877
HMM	4	with model	358	has score	0.00000
HMM	4	with model	359	has score	0.73877
HMM	4	with model	360	has score	0.00000
HMM	4	with model	361	has score	0.00000
HMM	4	with model	362	has score	0.73877
HMM	4	with model	363	has score	0.00000
HMM	4	with model	364	has score	0.00000
HMM	4	with model	365	has score	0.00000
HMM	4	with model	366	has score	0.00000
HMM	4	with model	367	has score	0.00000
HMM	4	with model	368	has score	0.26923
HMM	4	with model	369	has score	0.03846
HMM	4	with model	370	has score	0.00000
HMM	4	with model	371	has score	0.03846
HMM	4	with model	372	has score	0.00000
HMM	4	with model	373	has score	0.03846
HMM	4	with model	374	has score	0.00000
HMM	4	with model	375	has score	0.00000
HMM	4	with model	376	has score	0.73877
HMM	4	with model	377	has score	0.00000
HMM	4	with model	378	has score	0.73877
HMM	4	with model	379	has score	0.00000
HMM	4	with model	380	has score	0.00000
HMM	4	with model	381	has score	0.69231
HMM	4	with model	382	has score	0.00000
HMM	4	with model	383	has score	0.73877
HMM	4	with model	384	has score	0.00000
HMM	4	with model	385	has score	0.00000
HMM	4	with model	386	has score	0.00000
HMM	4	with model	387	has score	0.00000
HMM	4	with model	388	has score	0.00000
HMM	4	with model	389	has score	0.15385
HMM	4	with model	390	has score	0.73877
HMM	4	with model	391	has score	0.00000
HMM	4	with model	392	has score	0.69231
HMM	4	with model	393	has score	0.73877
HMM	4	with model	394	has score	0.73877
HMM	4	with model	395	has score	0.00000
HMM	4	with model	396	has score	0.00000
HMM	4	with model	397	has score	0.00000
HMM	4	with model	398	has score	0.00000
HMM	4	with model	399	has score	0.0000

[illegible]

HMM	4	with model	588	has score	0.00000
HMM	4	with model	589	has score	0.00000
HMM	4	with model	590	has score	0.00000
HMM	4	with model	591	has score	0.00000
HMM	4	with model	592	has score	0.73877
HMM	4	with model	593	has score	0.00000
HMM	4	with model	594	has score	0.00000
HMM	4	with model	595	has score	0.73877
HMM	4	with model	596	has score	0.73877
HMM	4	with model	597	has score	0.73877
HMM	4	with model	598	has score	0.65385
HMM	4	with model	599	has score	0.73877
HMM	4	with model	600	has score	0.73877
HMM	4	with model	601	has score	0.00000
HMM	4	with model	602	has score	0.00000
HMM	4	with model	603	has score	0.69231
HMM	4	with model	604	has score	0.73877
HMM	4	with model	605	has score	0.73877
HMM	4	with model	606	has score	0.73877
HMM	4	with model	607	has score	0.73877
HMM	4	with model	608	has score	0.00000
HMM	4	with model	609	has score	0.00000
HMM	4	with model	610	has score	0.00000
HMM	4	with model	611	has score	0.00000
HMM	4	with model	612	has score	0.00000
HMM	4	with model	613	has score	0.73877
HMM	4	with model	614	has score	0.00000
HMM	4	with model	615	has score	0.03846
HMM	4	with model	616	has score	0.03846
HMM	4	with model	617	has score	0.73877
HMM	4	with model	618	has score	0.00000
HMM	4	with model	619	has score	0.07692
HMM	4	with model	620	has score	0.00000
HMM	4	with model	621	has score	0.00000
HMM	4	with model	622	has score	0.73877
HMM	4	with model	623	has score	0.73877
HMM	4	with model	624	has score	0.00000
HMM	4	with model	625	has score	0.00000
HMM	4	with model	626	has score	0.73877
HMM	4	with model	627	has score	0.00000
HMM	4	with model	628	has score	0.00000
HMM	4	with model	629	has score	0.15385
HMM	4	with model	630	has score	0.03846
HMM	4	with model	631	has score	0.00000
HMM	4	with model	632	has score	0.00000
HMM	4	with model	633	has score	0.00000
HMM	4	with model	634	has score	0.00000
HMM	4	with model	635	has score	0.00000
HMM	4	with model	636	has score	0.69231
HMM	4	with model	637	has score	0.00000
HMM	4	with model	638	has score	0.00000
HMM	4	with model	639	has score	0.03846
HMM	4	with model	640	has score	0.03846
HMM	4	with model	641	has score	0.00000
HMM	4	with model	642	has score	0.00000
HMM	4	with model	643	has score	0.73877
HMM	4	with model	644	has score	0.73877
HMM	4	with model	645	has score	0.65385
HMM	4	with model	646	has score	0.00000
HMM	4	with model	647	has score	0.00000
HMM	4	with model	648	has score	0.00000
HMM	4	with model	649	has score	0.73877
HMM	4	with model	650	has score	0.73877
HMM	4	with model	651	has score	0.00000
HMM	4	with model	652	has score	0.07692
HMM	4	with model	653	has score	0.73877
HMM	4	with model	654	has score	0.03846
HMM	4	with model	655	has score	0.00000
HMM	4	with model	656	has score	0.73877
HMM	4	with model	657	has score	0.07692
HMM	4	with model	658	has score	0.65385
HMM	4	with model	659	has score	0.73877
HMM	4	with model	660	has score	0.00000
HMM	4	with model	661	has score	0.73877
HMM	4	with model	662	has score	0.07692
HMM	4	with model	663	has score	0.30769
HMM	4	with model	664	has score	0.42308
HMM	4	with model	665	has score	0.00000
HMM	4	with model	666	has score	0.00000
HMM	4	with model	667	has score	0.00000
HMM	4	with model	668	has score	0.00000
HMM	4	with model	669	has score	0.7387

HMM	4	with model 723	has score	0.73077
HMM	4	with model 724	has score	0.73077
HMM	4	with model 725	has score	0.00000
HMM	4	with model 726	has score	0.73077
HMM	4	with model 727	has score	0.03846
HMM	4	with model 728	has score	0.00000
HMM	4	with model 729	has score	0.00000
HMM	4	with model 730	has score	0.07692
HMM	4	with model 731	has score	0.00000
HMM	4	with model 732	has score	0.42398
HMM	4	with model 733	has score	0.00000
HMM	4	with model 734	has score	0.03846
HMM	4	with model 735	has score	0.00000
HMM	4	with model 736	has score	0.00000
HMM	4	with model 737	has score	0.73077
HMM	4	with model 738	has score	0.73077
HMM	4	with model 739	has score	0.00000
HMM	4	with model 740	has score	0.73077
HMM	4	with model 741	has score	0.15385
HMM	4	with model 742	has score	0.00000
HMM	4	with model 743	has score	0.03846
HMM	4	with model 744	has score	0.00000
HMM	4	with model 745	has score	0.00000
HMM	4	with model 746	has score	0.00000
HMM	4	with model 747	has score	0.00000
HMM	4	with model 748	has score	0.73077
HMM	4	with model 749	has score	0.57692
HMM	4	with model 750	has score	0.57692
HMM	4	with model 751	has score	0.03846
HMM	4	with model 752	has score	0.00000
HMM	4	with model 753	has score	0.19231
HMM	4	with model 754	has score	0.03846
HMM	4	with model 755	has score	0.00000
HMM	4	with model 756	has score	0.69231
HMM	4	with model 757	has score	0.00000
HMM	4	with model 758	has score	0.03846
HMM	4	with model 759	has score	0.73077
HMM	4	with model 760	has score	0.00000
HMM	4	with model 761	has score	0.73077
HMM	4	with model 762	has score	0.26923
HMM	4	with model 763	has score	0.73077
HMM	4	with model 764	has score	0.73077
HMM	4	with model 765	has score	0.00000
HMM	4	with model 766	has score	0.00000
HMM	4	with model 767	has score	0.00000
HMM	4	with model 768	has score	0.00000
HMM	4	with model 769	has score	0.00000
HMM	4	with model 770	has score	0.73077
HMM	4	with model 771	has score	0.69231
HMM	4	with model 772	has score	0.69231
HMM	4	with model 773	has score	0.73077
HMM	4	with model 774	has score	0.69231
HMM	4	with model 775	has score	0.00000
HMM	4	with model 776	has score	0.73077
HMM	4	with model 777	has score	0.73077
HMM	4	with model 778	has score	0.73077
HMM	4	with model 779	has score	0.00000
HMM	4	with model 780	has score	0.00000
HMM	4	with model 781	has score	0.00000
HMM	4	with model 782	has score	0.73077
HMM	4	with model 783	has score	0.00000
HMM	4	with model 784	has score	0.73077
HMM	4	with model 785	has score	0.73077
HMM	4	with model 786	has score	0.00000
HMM	4	with model 787	has score	0.69231
HMM	4	with model 788	has score	0.00000
HMM	4	with model 789	has score	0.00000
HMM	4	with model 790	has score	0.00000
HMM	4	with model 791	has score	0.00000
HMM	4	with model 792	has score	0.00000
HMM	4	with model 793	has score	0.73077
HMM	4	with model 794	has score	0.73077
HMM	4	with model 795	has score	0.00000
HMM	4	with model 796	has score	0.00000
HMM	4	with model 797	has score	0.00000
HMM	4	with model 798	has score	0.00000
HMM	4	with model 799	has score	0.73077
HMM	4	with model 800	has score	0.73077
HMM	4	with model 801	has score	0.03846
HMM	4	with model 802	has score	0.00000
HMM	4	with model 803	has score	0.73077
HMM	4	with model 804	has score	0.00000
HMM	4	with model 805	has score	0.00000
HMM	4	with model 806	has score	0.73077
HMM	4	with model 807	has score	0.00000
HMM	4	with model 808	has score	0.00000
HMM	4	with model 809	has score	0.00000
HMM	4	with model 810	has score	0.00000
HMM	4	with model 811	has score	0.00000

HMM	4	with model	858	has score	0.00000
HMM	4	with model	859	has score	0.00000
HMM	4	with model	860	has score	0.00000
HMM	4	with model	861	has score	0.11538
HMM	4	with model	862	has score	0.15385
HMM	4	with model	863	has score	0.00000
HMM	4	with model	864	has score	0.00000
HMM	4	with model	865	has score	0.73777
HMM	4	with model	866	has score	0.03846
HMM	4	with model	867	has score	0.00000
HMM	4	with model	868	has score	0.73777
HMM	4	with model	869	has score	0.73777
HMM	4	with model	870	has score	0.73777
HMM	4	with model	871	has score	0.00000
HMM	4	with model	872	has score	0.00000
HMM	4	with model	873	has score	0.00000
HMM	4	with model	874	has score	0.69231
HMM	4	with model	875	has score	0.73777
HMM	4	with model	876	has score	0.00000
HMM	4	with model	877	has score	0.73777
HMM	4	with model	878	has score	0.00000
HMM	4	with model	879	has score	0.00000
HMM	4	with model	880	has score	0.00000
HMM	4	with model	881	has score	0.00000
HMM	4	with model	882	has score	0.73777
HMM	4	with model	883	has score	0.73777
HMM	4	with model	884	has score	0.00000
HMM	4	with model	885	has score	0.00000
HMM	4	with model	886	has score	0.00000
HMM	4	with model	887	has score	0.19231
HMM	4	with model	888	has score	0.00000
HMM	4	with model	889	has score	0.00000
HMM	4	with model	890	has score	0.00000
HMM	4	with model	891	has score	0.00000
HMM	4	with model	892	has score	0.00000
HMM	4	with model	893	has score	0.00000
HMM	4	with model	894	has score	0.61538
HMM	4	with model	895	has score	0.00000
HMM	4	with model	896	has score	0.73777
HMM	4	with model	897	has score	0.73777
HMM	4	with model	898	has score	0.73777
HMM	4	with model	899	has score	0.73777
HMM	4	with model	900	has score	0.03846
HMM	4	with model	901	has score	0.00000
HMM	4	with model	902	has score	0.00000
HMM	4	with model	903	has score	0.00000
HMM	4	with model	904	has score	0.73777
HMM	4	with model	905	has score	0.00000
HMM	4	with model	906	has score	0.00000
HMM	4	with model	907	has score	0.69231
HMM	4	with model	908	has score	0.73777
HMM	4	with model	909	has score	0.73777
HMM	4	with model	910	has score	0.00000
HMM	4	with model	911	has score	0.00000
HMM	4	with model	912	has score	0.00000
HMM	4	with model	913	has score	0.73777
HMM	4	with model	914	has score	0.00000
HMM	4	with model	915	has score	0.00000
HMM	4	with model	916	has score	0.00000
HMM	4	with model	917	has score	0.00000
HMM	4	with model	918	has score	0.03846
HMM	4	with model	919	has score	0.00000
HMM	4	with model	920	has score	0.73777
HMM	4	with model	921	has score	0.73777
HMM	4	with model	922	has score	0.00000
HMM	4	with model	923	has score	0.00000
HMM	4	with model	924	has score	0.03846
HMM	4	with model	925	has score	0.42308
HMM	4	with model	926	has score	0.00000
HMM	4	with model	927	has score	0.00000
HMM	4	with model	928	has score	0.73777
HMM	4	with model	929	has score	0.00000
HMM	4	with model	930	has score	0.73777
HMM	4	with model	931	has score	0.73777
HMM	4	with model	932	has score	0.03846
HMM	4	with model	933	has score	0.00000
HMM	4	with model	934	has score	0.73777
HMM	4	with model	935	has score	0.00000
HMM	4	with model	936	has score	0.00000
HMM	4	with model	937	has score	0.00000
HMM	4	with model	938	has score	0.03846
HMM	4	with model	939	has score	0.6923

HMM 4 with model 993 has score 0.00000
HMM 4 with model 994 has score 0.00000
HMM 4 with model 995 has score 0.73077
HMM 4 with model 996 has score 0.73077
HMM 4 with model 997 has score 0.03846
HMM 4 with model 998 has score 0.73077
HMM 4 with model 999 has score 0.00000
HMM 4 with model 1000 has score 0.73077
The best score for HMM 4 was with model 830 with score 0.76923

(base) Yashs-MacBook-Pro:Assignment2 yash\$./hmm BrownCorpus 15 1000 300 200 548

HMM 1 with model 1 has score 0.07692
The best score for HMM 1 was with model 1 with score 0.07692

HMM 2 with model 1 has score 0.03846
HMM 2 with model 2 has score 0.00000
HMM 2 with model 3 has score 0.07692
HMM 2 with model 4 has score 0.00000
HMM 2 with model 5 has score 0.34615
HMM 2 with model 6 has score 0.00000
HMM 2 with model 7 has score 0.69231
HMM 2 with model 8 has score 0.00000
HMM 2 with model 9 has score 0.23077
HMM 2 with model 10 has score 0.69231
The best score for HMM 2 was with model 7 with score 0.69231

HMM 3 with model 1 has score 0.00000
HMM 3 with model 2 has score 0.00000
HMM 3 with model 3 has score 0.00000
HMM 3 with model 4 has score 0.00000
HMM 3 with model 5 has score 0.03846
HMM 3 with model 6 has score 0.15385
HMM 3 with model 7 has score 0.00000
HMM 3 with model 8 has score 0.00000
HMM 3 with model 9 has score 0.00000
HMM 3 with model 10 has score 0.00000
HMM 3 with model 11 has score 0.15385
HMM 3 with model 12 has score 0.00000
HMM 3 with model 13 has score 0.65385
HMM 3 with model 14 has score 0.38462
HMM 3 with model 15 has score 0.00000
HMM 3 with model 16 has score 0.00000
HMM 3 with model 17 has score 0.30769
HMM 3 with model 18 has score 0.19231
HMM 3 with model 19 has score 0.19231
HMM 3 with model 20 has score 0.11538
HMM 3 with model 21 has score 0.73077
HMM 3 with model 22 has score 0.11538
HMM 3 with model 23 has score 0.00000
HMM 3 with model 24 has score 0.03846
HMM 3 with model 25 has score 0.00000
HMM 3 with model 26 has score 0.23077
HMM 3 with model 27 has score 0.34615
HMM 3 with model 28 has score 0.15385
HMM 3 with model 29 has score 0.00000
HMM 3 with model 30 has score 0.00000
HMM 3 with model 31 has score 0.19231
HMM 3 with model 32 has score 0.23077
HMM 3 with model 33 has score 0.00000
HMM 3 with model 34 has score 0.03846
HMM 3 with model 35 has score 0.00000
HMM 3 with model 36 has score 0.26923
HMM 3 with model 37 has score 0.26923
HMM 3 with model 38 has score 0.00000
HMM 3 with model 39 has score 0.00000
HMM 3 with model 40 has score 0.00000
HMM 3 with model 41 has score 0.30769
HMM 3 with model 42 has score 0.15385
HMM 3 with model 43 has score 0.00000
HMM 3 with model 44 has score 0.07692
HMM 3 with model 45 has score 0.00000
HMM 3 with model 46 has score 0.50000
HMM 3 with model 47 has score 0.15385
HMM 3 with model 48 has score 0.00000
HMM 3 with model 49 has score 0.00000
HMM 3 with model 50 has score 0.38462
HMM 3 with model 51 has score 0.07692
HMM 3 with model 52 has score 0.00000
HMM 3 with model 53 has score 0.03846
HMM 3 with model 54 has score 0.15385
HMM 3 with model 55 has score 0.11538
HMM 3 with model 56 has score 0.30769
HMM 3 with model 57 has score 0.69231
HMM 3 with model 58 has score 0.00000
HMM 3 with model 59 has score 0.00000
HMM 3 with model 60 has score 0.57692
HMM 3 with model 61 has score 0.00000
HMM 3 with model 62 has score 0.34615
HMM 3 with model 63 has score 0.65385
HMM 3 with model 64 has score 0.69231
HMM 3 with model 65 has score 0.15385
HMM 3 with model 66 has score 0.03846
HMM 3 with model 67 has score 0.26923
HMM 3 with model 68 has score 0.00000
HMM 3 with model 69 has score 0.00000
HMM 3 with model 70 has score 0.19231
HMM 3 with model 71 has score 0.38462
HMM 3 with model 72 has score 0.07692
HMM 3 with model 73 has score 0.00000
HMM 3 with model 74 has score 0.00000
HMM 3 with model 75 has score 0.69231
HMM 3 with model 76 has score 0.11538
HMM 3 with model 77 has score 0.00000
HMM 3 with model 78 has score 0.23077
HMM 3 with model 79 has score 0.11538
HMM 3 with model 80 has score 0.00000
HMM 3 with model 81 has score 0.03846
HMM 3 with model 82 has score 0.00000
HMM 3 with model 83 has score 0.42308
HMM 3 with model 84 has score 0.15385
HMM 3 with model 85 has score 0.00000
HMM 3 with model 86 has score 0.03846
HMM 3 with model 87 has score 0.00000
HMM 3 with model 88 has score 0.30769
HMM 3 with model 89 has score 0.00000
HMM 3 with model 90 has score 0.03846
HMM 3 with model 91 has score 0.00000
HMM 3 with model 92 has score 0.00000
HMM 3 with model 93 has score 0.03846
HMM 3 with model 94 has score 0.07692
HMM 3 with model 95 has score 0.00000
HMM 3 with model 96 has score 0.30769
HMM 3 with model 97 has score 0.07692
HMM 3 with model 98 has score 0.00000
HMM 3 with model 99 has score 0.57692
HMM 3 with model 100 has score 0.00000
The best score for HMM 3 was with model 21 with score 0.73077

HMM 4 with model 1 has score 0.15385
HMM 4 with model 2 has score 0.00000
HMM 4 with model 3 has score 0.00000

HMM 4 with model 4 has score 0.19231
HMM 4 with model 5 has score 0.19231
HMM 4 with model 6 has score 0.23077
HMM 4 with model 7 has score 0.00000
HMM 4 with model 8 has score 0.19231
HMM 4 with model 9 has score 0.00000
HMM 4 with model 10 has score 0.26923
HMM 4 with model 11 has score 0.03846
HMM 4 with model 12 has score 0.00000
HMM 4 with model 13 has score 0.38462
HMM 4 with model 14 has score 0.03846
HMM 4 with model 15 has score 0.00000
HMM 4 with model 16 has score 0.00000
HMM 4 with model 17 has score 0.00000
HMM 4 with model 18 has score 0.11538
HMM 4 with model 19 has score 0.00000
HMM 4 with model 20 has score 0.03846
HMM 4 with model 21 has score 0.00000
HMM 4 with model 22 has score 0.00000
HMM 4 with model 23 has score 0.38462
HMM 4 with model 24 has score 0.00000
HMM 4 with model 25 has score 0.61538
HMM 4 with model 26 has score 0.00000
HMM 4 with model 27 has score 0.00000
HMM 4 with model 28 has score 0.00000
HMM 4 with model 29 has score 0.26923
HMM 4 with model 30 has score 0.15385
HMM 4 with model 31 has score 0.00000
HMM 4 with model 32 has score 0.11538
HMM 4 with model 33 has score 0.34615
HMM 4 with model 34 has score 0.00000
HMM 4 with model 35 has score 0.00000
HMM 4 with model 36 has score 0.03846
HMM 4 with model 37 has score 0.73077
HMM 4 with model 38 has score 0.00000
HMM 4 with model 39 has score 0.65385
HMM 4 with model 40 has score 0.00000
HMM 4 with model 41 has score 0.23077
HMM 4 with model 42 has score 0.07692
HMM 4 with model 43 has score 0.15385
HMM 4 with model 44 has score 0.69231
HMM 4 with model 45 has score 0.00000
HMM 4 with model 46 has score 0.11538
HMM 4 with model 47 has score 0.38462
HMM 4 with model 48 has score 0.00000
HMM 4 with model 49 has score 0.00000
HMM 4 with model 50 has score 0.00000
HMM 4 with model 51 has score 0.00000
HMM 4 with model 52 has score 0.00000
HMM 4 with model 53 has score 0.00000
HMM 4 with model 54 has score 0.38462
HMM 4 with model 55 has score 0.07692
HMM 4 with model 56 has score 0.23077
HMM 4 with model 57 has score 0.00000
HMM 4 with model 58 has score 0.26923
HMM 4 with model 59 has score 0.19231
HMM 4 with model 60 has score 0.03846
HMM 4 with model 61 has score 0.00000
HMM 4 with model 62 has score 0.11538
HMM 4 with model 63 has score 0.00000
HMM 4 with model 64 has score 0.00000
HMM 4 with model 65 has score 0.23077
HMM 4 with model 66 has score 0.00000
HMM 4 with model 67 has score 0.42308
HMM 4 with model 68 has score 0.23077
HMM 4 with model 69 has score 0.19231
HMM 4 with model 70 has score 0.07692
HMM 4 with model 71 has score 0.11538
HMM 4 with model 72 has score 0.00000
HMM 4 with model 73 has score 0.00000
HMM 4 with model 74 has score 0.57692
HMM 4 with model 75 has score 0.38769
HMM 4 with model 76 has score 0.03846
HMM 4 with model 77 has score 0.00000
HMM 4 with model 78 has score 0.23077
HMM 4 with model 79 has score 0.69231
HMM 4 with model 80 has score 0.00000
HMM 4 with model 81 has score 0.11538
HMM 4 with model 82 has score 0.00000
HMM 4 with model 83 has score 0.00000
HMM 4 with model 84 has score 0.07692
HMM 4 with model 85 has score 0.00000
HMM 4 with model 86 has score 0.00000
HMM 4 with model 87 has score 0.34615
HMM 4 with model 88 has score 0.00000
HMM 4 with model 89 has score 0.00000
HMM 4 with model 90 has score 0.15385
HMM 4 with model 91 has score 0.65385
HMM 4 with model 92 has score 0.00000
HMM 4 with model 93 has score 0.00000
HMM 4 with model 94 has score 0.07692
HMM 4 with model 95 has score 0.73077
HMM 4 with model 96 has score 0.69231
HMM 4 with model 97 has score 0.07692
HMM 4 with model 98 has score 0.03846
HMM 4 with model 99 has score 0.11538
HMM 4 with model 100 has score 0.42308
HMM 4 with model 101 has score 0.00000
HMM 4 with model 102 has score 0.00000
HMM 4 with model 103 has score 0.00000
HMM 4 with model 104 has score 0.00000
HMM 4 with model 105 has score 0.00000
HMM 4 with model 106 has score 0.73077
HMM 4 with model 107 has score 0.15385
HMM 4 with model 108 has score 0.73077
HMM 4 with model 109 has score 0.07692
HMM 4 with model 110 has score 0.03846
HMM 4 with model 111 has score 0.69231
HMM 4 with model 112 has score 0.11538
HMM 4 with model 113 has score 0.42308
HMM 4 with model 114 has score 0.15385
HMM 4 with model 115 has score 0.00000
HMM 4 with model 116 has score 0.00000
HMM 4 with model 117 has score 0.00000
HMM 4 with model 118 has score 0.00000
HMM 4 with model 119 has score 0.00000
HMM 4 with model 120 has score 0.00000
HMM 4 with model 121 has score 0.00000
HMM 4 with model 122 has score 0.00000
HMM 4 with model 123 has score 0.00000
HMM 4 with model 124 has score 0.00000
HMM 4 with model 125 has score 0.69231
HMM 4 with model 126 has score 0.00000
HMM 4 with model 127 has score 0.38769
HMM 4 with model 128 has score 0.11538
HMM 4 with model 129 has score 0.00000
HMM 4 with model 130 has score 0.69231
HMM 4 with model 131 has score 0.23077
HMM 4 with model 132 has score 0.03846
HMM 4 with model 133 has score 0.00000
HMM 4 with model 134 has score 0.23077
HMM 4 with model 135 has score 0.50000
HMM 4 with model 136 has score 0.00000
HMM 4 with model 137 has score 0.23077
HMM 4 with model 138 has score 0.07692

HMM	4	with model 139	has score	0.00000
HMM	4	with model 140	has score	0.00000
HMM	4	with model 141	has score	0.03846
HMM	4	with model 142	has score	0.00000
HMM	4	with model 143	has score	0.11538
HMM	4	with model 144	has score	0.00000
HMM	4	with model 145	has score	0.00000
HMM	4	with model 146	has score	0.53846
HMM	4	with model 147	has score	0.00000
HMM	4	with model 148	has score	0.00000
HMM	4	with model 149	has score	0.19231
HMM	4	with model 150	has score	0.03846
HMM	4	with model 151	has score	0.00000
HMM	4	with model 152	has score	0.00000
HMM	4	with model 153	has score	0.34615
HMM	4	with model 154	has score	0.00000
HMM	4	with model 155	has score	0.38462
HMM	4	with model 156	has score	0.00000
HMM	4	with model 157	has score	0.00000
HMM	4	with model 158	has score	0.23877
HMM	4	with model 159	has score	0.07692
HMM	4	with model 160	has score	0.00000
HMM	4	with model 161	has score	0.00000
HMM	4	with model 162	has score	0.00000
HMM	4	with model 163	has score	0.03846
HMM	4	with model 164	has score	0.00000
HMM	4	with model 165	has score	0.00000
HMM	4	with model 166	has score	0.00000
HMM	4	with model 167	has score	0.07692
HMM	4	with model 168	has score	0.00000
HMM	4	with model 169	has score	0.00000
HMM	4	with model 170	has score	0.15385
HMM	4	with model 171	has score	0.00000
HMM	4	with model 172	has score	0.15385
HMM	4	with model 173	has score	0.73877
HMM	4	with model 174	has score	0.11538
HMM	4	with model 175	has score	0.30769
HMM	4	with model 176	has score	0.00000
HMM	4	with model 177	has score	0.00000
HMM	4	with model 178	has score	0.34615
HMM	4	with model 179	has score	0.00000
HMM	4	with model 180	has score	0.34615
HMM	4	with model 181	has score	0.00000
HMM	4	with model 182	has score	0.19231
HMM	4	with model 183	has score	0.03846
HMM	4	with model 184	has score	0.00000
HMM	4	with model 185	has score	0.07692
HMM	4	with model 186	has score	0.15385
HMM	4	with model 187	has score	0.00000
HMM	4	with model 188	has score	0.69231
HMM	4	with model 189	has score	0.00000
HMM	4	with model 190	has score	0.00000
HMM	4	with model 191	has score	0.00000
HMM	4	with model 192	has score	0.08769
HMM	4	with model 193	has score	0.00000
HMM	4	with model 194	has score	0.19231
HMM	4	with model 195	has score	0.00000
HMM	4	with model 196	has score	0.00000
HMM	4	with model 197	has score	0.00000
HMM	4	with model 198	has score	0.00000
HMM	4	with model 199	has score	0.00000
HMM	4	with model 200	has score	0.00000
HMM	4	with model 201	has score	0.19231
HMM	4	with model 202	has score	0.15385
HMM	4	with model 203	has score	0.00000
HMM	4	with model 204	has score	0.00000
HMM	4	with model 205	has score	0.00000
HMM	4	with model 206	has score	0.26923
HMM	4	with model 207	has score	0.00000
HMM	4	with model 208	has score	0.03846
HMM	4	with model 209	has score	0.07692
HMM	4	with model 210	has score	0.00000
HMM	4	with model 211	has score	0.03846
HMM	4	with model 212	has score	0.19231
HMM	4	with model 213	has score	0.00000
HMM	4	with model 214	has score	0.00000
HMM	4	with model 215	has score	0.00000
HMM	4	with model 216	has score	0.11538
HMM	4	with model 217	has score	0.38462
HMM	4	with model 218	has score	0.11538
HMM	4	with model 219	has score	0.11538
HMM	4	with model 220	has score	0.00000
HMM	4	with model 221	has score	0.00000
HMM	4	with model 222	has score	0.00000
HMM	4	with model 223	has score	0.00000
HMM	4	with model 224	has score	0.15385
HMM	4	with model 225	has score	0.03846
HMM	4	with model 226	has score	0.07692
HMM	4	with model 227	has score	0.19231

HMM 4 with model 274 has score 0.00000
HMM 4 with model 275 has score 0.00000
HMM 4 with model 276 has score 0.00000
HMM 4 with model 277 has score 0.00000
HMM 4 with model 278 has score 0.19231
HMM 4 with model 279 has score 0.26923
HMM 4 with model 280 has score 0.69231
HMM 4 with model 281 has score 0.00000
HMM 4 with model 282 has score 0.07692
HMM 4 with model 283 has score 0.11538
HMM 4 with model 284 has score 0.34615
HMM 4 with model 285 has score 0.00000
HMM 4 with model 286 has score 0.00000
HMM 4 with model 287 has score 0.00000
HMM 4 with model 288 has score 0.26923
HMM 4 with model 289 has score 0.00000
HMM 4 with model 290 has score 0.00000
HMM 4 with model 291 has score 0.34615
HMM 4 with model 292 has score 0.00000
HMM 4 with model 293 has score 0.30769
HMM 4 with model 294 has score 0.00000
HMM 4 with model 295 has score 0.00000
HMM 4 with model 296 has score 0.00000
HMM 4 with model 297 has score 0.00000
HMM 4 with model 298 has score 0.00000
HMM 4 with model 299 has score 0.03846
HMM 4 with model 300 has score 0.19231
HMM 4 with model 301 has score 0.00000
HMM 4 with model 302 has score 0.00000
HMM 4 with model 303 has score 0.00000
HMM 4 with model 304 has score 0.38462
HMM 4 with model 305 has score 0.00000
HMM 4 with model 306 has score 0.00000
HMM 4 with model 307 has score 0.26923
HMM 4 with model 308 has score 0.00000
HMM 4 with model 309 has score 0.00000
HMM 4 with model 310 has score 0.00000
HMM 4 with model 311 has score 0.03846
HMM 4 with model 312 has score 0.23877
HMM 4 with model 313 has score 0.00000
HMM 4 with model 314 has score 0.26923
HMM 4 with model 315 has score 0.00000
HMM 4 with model 316 has score 0.23877
HMM 4 with model 317 has score 0.30769
HMM 4 with model 318 has score 0.19231
HMM 4 with model 319 has score 0.38462
HMM 4 with model 320 has score 0.00000
HMM 4 with model 321 has score 0.19231
HMM 4 with model 322 has score 0.00000
HMM 4 with model 323 has score 0.00000
HMM 4 with model 324 has score 0.00000
HMM 4 with model 325 has score 0.00000
HMM 4 with model 326 has score 0.03846
HMM 4 with model 327 has score 0.00000
HMM 4 with model 328 has score 0.15385
HMM 4 with model 329 has score 0.19231
HMM 4 with model 330 has score 0.03846
HMM 4 with model 331 has score 0.03846
HMM 4 with model 332 has score 0.00000
HMM 4 with model 333 has score 0.46154
HMM 4 with model 334 has score 0.69231
HMM 4 with model 335 has score 0.07692
HMM 4 with model 336 has score 0.42308
HMM 4 with model 337 has score 0.00000
HMM 4 with model 338 has score 0.30769
HMM 4 with model 339 has score 0.00000
HMM 4 with model 340 has score 0.00000
HMM 4 with model 341 has score 0.00000
HMM 4 with model 342 has score 0.03846
HMM 4 with model 343 has score 0.07692
HMM 4 with model 344 has score 0.11538
HMM 4 with model 345 has score 0.07692
HMM 4 with model 346 has score 0.00000
HMM 4 with model 347 has score 0.38462
HMM 4 with model 348 has score 0.38462
HMM 4 with model 349 has score 0.30769
HMM 4 with model 350 has score 0.53846
HMM 4 with model 351 has score 0.65385
HMM 4 with model 352 has score 0.00000
HMM 4 with model 353 has score 0.00000
HMM 4 with model 354 has score 0.00000
HMM 4 with model 355 has score 0.00000
HMM 4 with model 356 has score 0.00000
HMM 4 with model 357 has score 0.00000
HMM 4 with model 358 has score 0.11538
HMM 4 with model 359 has score 0.61538
HMM 4 with model 360 has score 0.03846
HMM 4 with model 361 has score 0.34615
HMM 4 with model 362 has score 0.34615
HMM 4 with model 363 has score 0.07692
HMM 4 with model 364 has score 0.65385
HMM 4 with model 365 has score 0.03846
HMM 4 with model 366 has score 0.07692
HMM 4 with model 367 has score 0.00000
HMM 4 with model 368 has score 0.19231
HMM 4 with model 369 has score 0.38462
HMM 4 with model 370 has score 0.07692
HMM 4 with model 371 has score 0.03846
HMM 4 with model 372 has score 0.00000
HMM 4 with model 373 has score 0.23877
HMM 4 with model 374 has score 0.65385
HMM 4 with model 375 has score 0.69231
HMM 4 with model 376 has score 0.00000
HMM 4 with model 377 has score 0.69231
HMM 4 with model 378 has score 0.65385
HMM 4 with model 379 has score 0.00000
HMM 4 with model 380 has score 0.19231
HMM 4 with model 381 has score 0.73877
HMM 4 with model 382 has score 0.00000
HMM 4 with model 383 has score 0.03846
HMM 4 with model 384 has score 0.15385
HMM 4 with model 385 has score 0.30769
HMM 4 with model 386 has score 0.11538
HMM 4 with model 387 has score 0.69231
HMM 4 with model 388 has score 0.38462
HMM 4 with model 389 has score 0.00000
HMM 4 with model 390 has score 0.23877
HMM 4 with model 391 has score 0.00000
HMM 4 with model 392 has score 0.34615
HMM 4 with model 393 has score 0.00000
HMM 4 with model 394 has score 0.07692
HMM 4 with model 395 has score 0.00000
HMM 4 with model 396 has score 0.11538
HMM 4 with model 397 has score 0.00000
HMM 4 with model 398 has score 0.00000
HMM 4 with model 399 has score 0.03846
HMM 4 with model 400 has score 0.69231
HMM 4 with model 401 has score 0.00000
HMM 4 with model 402 has score 0.00000
HMM 4 with model 403 has score 0.30769
HMM 4 with model 404 has score 0.00000
HMM 4 with model 405 has score 0.00000
HMM 4 with model 406 has score 0.00000
HMM 4 with model 407 has score 0.03846
HMM 4 with model 408 has score 0.11538

HMM	4	with model 409	has score	0.00000
HMM	4	with model 410	has score	0.00000
HMM	4	with model 411	has score	0.00000
HMM	4	with model 412	has score	0.07692
HMM	4	with model 413	has score	0.00000
HMM	4	with model 415	has score	0.00000
HMM	4	with model 416	has score	0.11538
HMM	4	with model 417	has score	0.00000
HMM	4	with model 418	has score	0.03846
HMM	4	with model 419	has score	0.00000
HMM	4	with model 420	has score	0.00000
HMM	4	with model 421	has score	0.15385
HMM	4	with model 422	has score	0.00000
HMM	4	with model 423	has score	0.00000
HMM	4	with model 424	has score	0.23877
HMM	4	with model 425	has score	0.11538
HMM	4	with model 426	has score	0.11538
HMM	4	with model 427	has score	0.07692
HMM	4	with model 428	has score	0.07692
HMM	4	with model 429	has score	0.30769
HMM	4	with model 430	has score	0.00000
HMM	4	with model 431	has score	0.00000
HMM	4	with model 432	has score	0.73846
HMM	4	with model 433	has score	0.00000
HMM	4	with model 434	has score	0.00000
HMM	4	with model 435	has score	0.11538
HMM	4	with model 436	has score	0.03846
HMM	4	with model 437	has score	0.00000
HMM	4	with model 438	has score	0.00000
HMM	4	with model 439	has score	0.34615
HMM	4	with model 440	has score	0.00000
HMM	4	with model 441	has score	0.00000
HMM	4	with model 442	has score	0.00000
HMM	4	with model 443	has score	0.00000
HMM	4	with model 444	has score	0.03846
HMM	4	with model 445	has score	0.00000
HMM	4	with model 446	has score	0.00000
HMM	4	with model 447	has score	0.00000
HMM	4	with model 448	has score	0.00000
HMM	4	with model 449	has score	0.00000
HMM	4	with model 450	has score	0.00000
HMM	4	with model 451	has score	0.69231
HMM	4	with model 452	has score	0.19231
HMM	4	with model 453	has score	0.00000
HMM	4	with model 454	has score	0.00000
HMM	4	with model 455	has score	0.00000
HMM	4	with model 456	has score	0.00000
HMM	4	with model 457	has score	0.26923
HMM	4	with model 458	has score	0.34615
HMM	4	with model 459	has score	0.57692
HMM	4	with model 460	has score	0.69231
HMM	4	with model 461	has score	0.00000
HMM	4	with model 462	has score	0.69231
HMM	4	with model 463	has score	0.00000
HMM	4	with model 464	has score	0.00000
HMM	4	with model 465	has score	0.00000
HMM	4	with model 466	has score	0.26923
HMM	4	with model 467	has score	0.00000
HMM	4	with model 468	has score	0.00000
HMM	4	with model 469	has score	0.26923
HMM	4	with model 470	has score	0.00000
HMM	4	with model 471	has score	0.00000
HMM	4	with model 472	has score	0.03846
HMM	4	with model 473	has score	0.30769
HMM	4	with model 474	has score	0.34615
HMM	4	with model 475	has score	0.00000
HMM	4	with model 476	has score	0.26923
HMM	4	with model 477	has score	0.00000
HMM	4	with model 478	has score	0.34615
HMM	4	with model 479	has score	0.00000
HMM	4	with model 480	has score	0.00000
HMM	4	with model 481	has score	0.00000
HMM	4	with model 482	has score	0.07692
HMM	4	with model 483	has score	0.00000
HMM	4	with model 484	has score	0.00000
HMM	4	with model 485	has score	0.00000
HMM	4	with model 486	has score	0.11538
HMM	4	with model 487	has score	0.00000
HMM	4	with model 488	has score	0.00000
HMM	4	with model 489	has score	0.00000
HMM	4	with model 490	has score	0.00000
HMM	4	with model 491	has score	0.03846
HMM	4	with model 492	has score	0.57692
HMM	4	with model 493	has score	0.00000
HMM	4	with model 494	has score	0.30769
HMM	4	with model 495	has score	0.69231
HMM	4	with model 496	has score	0.00000
HMM	4	with model 497	has score	0.00000
HMM	4	with model 498	has score	0.00000

HMM 4 with model 544 has score 0.00000
HMM 4 with model 545 has score 0.00000
HMM 4 with model 546 has score 0.50000
HMM 4 with model 547 has score 0.19231
HMM 4 with model 548 has score 0.03846
HMM 4 with model 549 has score 0.00000
HMM 4 with model 550 has score 0.00000
HMM 4 with model 551 has score 0.00000
HMM 4 with model 552 has score 0.00000
HMM 4 with model 553 has score 0.00000
HMM 4 with model 554 has score 0.00000
HMM 4 with model 555 has score 0.15385
HMM 4 with model 556 has score 0.07692
HMM 4 with model 557 has score 0.00000
HMM 4 with model 558 has score 0.00000
HMM 4 with model 559 has score 0.61538
HMM 4 with model 560 has score 0.30769
HMM 4 with model 561 has score 0.00000
HMM 4 with model 562 has score 0.07692
HMM 4 with model 563 has score 0.26923
HMM 4 with model 564 has score 0.03846
HMM 4 with model 565 has score 0.00000
HMM 4 with model 566 has score 0.07692
HMM 4 with model 567 has score 0.34615
HMM 4 with model 568 has score 0.30769
HMM 4 with model 569 has score 0.57692
HMM 4 with model 570 has score 0.00000
HMM 4 with model 571 has score 0.00000
HMM 4 with model 572 has score 0.03846
HMM 4 with model 573 has score 0.15385
HMM 4 with model 574 has score 0.00000
HMM 4 with model 575 has score 0.30769
HMM 4 with model 576 has score 0.07692
HMM 4 with model 577 has score 0.65385
HMM 4 with model 578 has score 0.26923
HMM 4 with model 579 has score 0.34615
HMM 4 with model 580 has score 0.00000
HMM 4 with model 581 has score 0.00000
HMM 4 with model 582 has score 0.38462
HMM 4 with model 583 has score 0.34615
HMM 4 with model 584 has score 0.19231
HMM 4 with model 585 has score 0.00000
HMM 4 with model 586 has score 0.07692
HMM 4 with model 587 has score 0.30769
HMM 4 with model 588 has score 0.00000
HMM 4 with model 589 has score 0.00000
HMM 4 with model 590 has score 0.07692
HMM 4 with model 591 has score 0.38462
HMM 4 with model 592 has score 0.00000
HMM 4 with model 593 has score 0.00000
HMM 4 with model 594 has score 0.00000
HMM 4 with model 595 has score 0.00000
HMM 4 with model 596 has score 0.03846
HMM 4 with model 597 has score 0.15385
HMM 4 with model 598 has score 0.07692
HMM 4 with model 599 has score 0.00000
HMM 4 with model 600 has score 0.00000
HMM 4 with model 601 has score 0.00000
HMM 4 with model 602 has score 0.15385
HMM 4 with model 603 has score 0.03846
HMM 4 with model 604 has score 0.23077
HMM 4 with model 605 has score 0.61538
HMM 4 with model 606 has score 0.00000
HMM 4 with model 607 has score 0.00000
HMM 4 with model 608 has score 0.07692
HMM 4 with model 609 has score 0.07692
HMM 4 with model 610 has score 0.34615
HMM 4 with model 611 has score 0.73077
HMM 4 with model 612 has score 0.23077
HMM 4 with model 613 has score 0.34615
HMM 4 with model 614 has score 0.15385
HMM 4 with model 615 has score 0.00000
HMM 4 with model 616 has score 0.03846
HMM 4 with model 617 has score 0.00000
HMM 4 with model 618 has score 0.00000
HMM 4 with model 619 has score 0.23077
HMM 4 with model 620 has score 0.00000
HMM 4 with model 621 has score 0.00000
HMM 4 with model 622 has score 0.03846
HMM 4 with model 623 has score 0.00000
HMM 4 with model 624 has score 0.00000
HMM 4 with model 625 has score 0.00000
HMM 4 with model 626 has score 0.00000
HMM 4 with model 627 has score 0.00000
HMM 4 with model 628 has score 0.69231
HMM 4 with model 629 has score 0.00000
HMM 4 with model 630 has score 0.46154
HMM 4 with model 631 has score 0.30769
HMM 4 with model 632 has score 0.38462
HMM 4 with model 633 has score 0.30769
HMM 4 with model 634 has score 0.00000
HMM 4 with model 635 has score 0.46154
HMM 4 with model 636 has score 0.00000
HMM 4 with model 637 has score 0.46154
HMM 4 with model 638 has score 0.00000
HMM 4 with model 639 has score 0.15385
HMM 4 with model 640 has score 0.00000
HMM 4 with model 641 has score 0.07692
HMM 4 with model 642 has score 0.42308
HMM 4 with model 643 has score 0.00000
HMM 4 with model 644 has score 0.00000
HMM 4 with model 645 has score 0.15385
HMM 4 with model 646 has score 0.00000
HMM 4 with model 647 has score 0.42308
HMM 4 with model 648 has score 0.00000
HMM 4 with model 649 has score 0.11538
HMM 4 with model 650 has score 0.65385
HMM 4 with model 651 has score 0.00000
HMM 4 with model 652 has score 0.23077
HMM 4 with model 653 has score 0.07692
HMM 4 with model 654 has score 0.03846
HMM 4 with model 655 has score 0.00000
HMM 4 with model 656 has score 0.61538
HMM 4 with model 657 has score 0.34615
HMM 4 with model 658 has score 0.00000
HMM 4 with model 659 has score 0.00000
HMM 4 with model 660 has score 0.69231
HMM 4 with model 661 has score 0.00000
HMM 4 with model 662 has score 0.00000
HMM 4 with model 663 has score 0.15385
HMM 4 with model 664 has score 0.00000
HMM 4 with model 665 has score 0.00000
HMM 4 with model 666 has score 0.57692
HMM 4 with model 667 has score 0.19231
HMM 4 with model 668 has score 0.03846
HMM 4 with model 669 has score 0.00000
HMM 4 with model 670 has score 0.23077
HMM 4 with model 671 has score 0.00000
HMM 4 with model 672 has score 0.07692
HMM 4 with model 673 has score 0.00000
HMM 4 with model 674 has score 0.00000
HMM 4 with model 675 has score 0.03846
HMM 4 with model 676 has score 0.00000
HMM 4 with model 677 has score 0.03846
HMM 4 with model 678 has score 0.00000

HMM	4	with model 677	has score	0.46154
HMM	4	with model 680	has score	0.00000
HMM	4	with model 681	has score	0.15385
HMM	4	with model 682	has score	0.26923
HMM	4	with model 683	has score	0.00000
HMM	4	with model 684	has score	0.00000
HMM	4	with model 685	has score	0.00000
HMM	4	with model 686	has score	0.00000
HMM	4	with model 687	has score	0.11538
HMM	4	with model 688	has score	0.00000
HMM	4	with model 689	has score	0.07692
HMM	4	with model 690	has score	0.00000
HMM	4	with model 691	has score	0.11538
HMM	4	with model 692	has score	0.00000
HMM	4	with model 693	has score	0.00000
HMM	4	with model 694	has score	0.23877
HMM	4	with model 695	has score	0.30769
HMM	4	with model 696	has score	0.00000
HMM	4	with model 697	has score	0.00000
HMM	4	with model 698	has score	0.00000
HMM	4	with model 699	has score	0.00000
HMM	4	with model 700	has score	0.07692
HMM	4	with model 701	has score	0.11538
HMM	4	with model 702	has score	0.11538
HMM	4	with model 703	has score	0.23877
HMM	4	with model 704	has score	0.03846
HMM	4	with model 705	has score	0.00000
HMM	4	with model 706	has score	0.00000
HMM	4	with model 707	has score	0.53846
HMM	4	with model 708	has score	0.00000
HMM	4	with model 709	has score	0.26923
HMM	4	with model 710	has score	0.26923
HMM	4	with model 711	has score	0.69231
HMM	4	with model 712	has score	0.11538
HMM	4	with model 713	has score	0.07692
HMM	4	with model 714	has score	0.07692
HMM	4	with model 715	has score	0.11538
HMM	4	with model 716	has score	0.00000
HMM	4	with model 717	has score	0.00000
HMM	4	with model 718	has score	0.00000
HMM	4	with model 719	has score	0.00000
HMM	4	with model 720	has score	0.00000
HMM	4	with model 721	has score	0.00000
HMM	4	with model 722	has score	0.00000
HMM	4	with model 723	has score	0.00000
HMM	4	with model 724	has score	0.00000
HMM	4	with model 725	has score	0.00000
HMM	4	with model 726	has score	0.00000
HMM	4	with model 727	has score	0.03846
HMM	4	with model 728	has score	0.00000
HMM	4	with model 729	has score	0.03846
HMM	4	with model 730	has score	0.38462
HMM	4	with model 731	has score	0.00000
HMM	4	with model 732	has score	0.00000
HMM	4	with model 733	has score	0.11538
HMM	4	with model 734	has score	0.00000
HMM	4	with model 735	has score	0.00000
HMM	4	with model 736	has score	0.19231
HMM	4	with model 737	has score	0.07692
HMM	4	with model 738	has score	0.00000
HMM	4	with model 739	has score	0.00000
HMM	4	with model 740	has score	0.00000
HMM	4	with model 741	has score	0.53846
HMM	4	with model 742	has score	0.00000
HMM	4	with model 743	has score	0.57692
HMM	4	with model 744	has score	0.23877
HMM	4	with model 745	has score	0.26923
HMM	4	with model 746	has score	0.00000
HMM	4	with model 747	has score	0.15385
HMM	4	with model 748	has score	0.00000
HMM	4	with model 749	has score	0.00000
HMM	4	with model 750	has score	0.07692
HMM	4	with model 751	has score	0.11538
HMM	4	with model 752	has score	0.03846
HMM	4	with model 753	has score	0.57692
HMM	4	with model 754	has score	0.23877
HMM	4	with model 755	has score	0.00000
HMM	4	with model 756	has score	0.00000
HMM	4	with model 757	has score	0.69231
HMM	4	with model 758	has score	0.00000
HMM	4	with model 759	has score	0.00000
HMM	4	with model 760	has score	0.00000
HMM	4	with model 761	has score	0.00000
HMM	4	with model 762	has score	0.00000
HMM	4	with model 763	has score	0.23877
HMM	4	with model 764	has score	0.00000
HMM	4	with model 765	has score	0.07692
HMM	4	with model 766	has score	0.00000
HMM	4	with model 767	has score	0.00000

HMM	4	with model	814	has score	0.11535
HMM	4	with model	815	has score	0.15385
HMM	4	with model	816	has score	0.00000
HMM	4	with model	817	has score	0.00000
HMM	4	with model	818	has score	0.07692
HMM	4	with model	819	has score	0.00000
HMM	4	with model	820	has score	0.07692
HMM	4	with model	821	has score	0.26923
HMM	4	with model	822	has score	0.11538
HMM	4	with model	823	has score	0.00000
HMM	4	with model	824	has score	0.00000
HMM	4	with model	825	has score	0.26923
HMM	4	with model	826	has score	0.00000
HMM	4	with model	827	has score	0.00000
HMM	4	with model	828	has score	0.00000
HMM	4	with model	829	has score	0.26923
HMM	4	with model	830	has score	0.30769
HMM	4	with model	831	has score	0.34615
HMM	4	with model	832	has score	0.00000
HMM	4	with model	833	has score	0.00000
HMM	4	with model	834	has score	0.00000
HMM	4	with model	835	has score	0.00000
HMM	4	with model	836	has score	0.15385
HMM	4	with model	837	has score	0.00000
HMM	4	with model	838	has score	0.00000
HMM	4	with model	839	has score	0.00000
HMM	4	with model	840	has score	0.00000
HMM	4	with model	841	has score	0.07692
HMM	4	with model	842	has score	0.00000
HMM	4	with model	843	has score	0.26923
HMM	4	with model	844	has score	0.00000
HMM	4	with model	845	has score	0.07692
HMM	4	with model	846	has score	0.00000
HMM	4	with model	847	has score	0.00000
HMM	4	with model	848	has score	0.23877
HMM	4	with model	849	has score	0.00000
HMM	4	with model	850	has score	0.00000
HMM	4	with model	851	has score	0.00000
HMM	4	with model	852	has score	0.00000
HMM	4	with model	853	has score	0.00000
HMM	4	with model	854	has score	0.00000
HMM	4	with model	855	has score	0.15385
HMM	4	with model	856	has score	0.00000
HMM	4	with model	857	has score	0.11538
HMM	4	with model	858	has score	0.00000
HMM	4	with model	859	has score	0.00000
HMM	4	with model	860	has score	0.34615
HMM	4	with model	861	has score	0.00000
HMM	4	with model	862	has score	0.00000
HMM	4	with model	863	has score	0.15385
HMM	4	with model	864	has score	0.00000
HMM	4	with model	865	has score	0.00000
HMM	4	with model	866	has score	0.00000
HMM	4	with model	867	has score	0.19231
HMM	4	with model	868	has score	0.00000
HMM	4	with model	869	has score	0.11538
HMM	4	with model	870	has score	0.15385
HMM	4	with model	871	has score	0.03846
HMM	4	with model	872	has score	0.57692
HMM	4	with model	873	has score	0.00000
HMM	4	with model	874	has score	0.00000
HMM	4	with model	875	has score	0.19231
HMM	4	with model	876	has score	0.00000
HMM	4	with model	877	has score	0.23877
HMM	4	with model	878	has score	0.38462
HMM	4	with model	879	has score	0.00000
HMM	4	with model	880	has score	0.00000
HMM	4	with model	881	has score	0.00000
HMM	4	with model	882	has score	0.46154
HMM	4	with model	883	has score	0.15385
HMM	4	with model	884	has score	0.00000
HMM	4	with model	885	has score	0.00000
HMM	4	with model	886	has score	0.11538
HMM	4	with model	887	has score	0.00000
HMM	4	with model	888	has score	0.00000
HMM	4	with model	889	has score	0.00000
HMM	4	with model	890	has score	0.00000
HMM	4	with model	891	has score	0.19231
HMM	4	with model	892	has score	0.15138
HMM	4	with model	893	has score	0.15385
HMM	4	with model	894	has score	0.15385
HMM	4	with model	895	has score	0.3846

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HMM 4 with model 949 has score 0.00000
HMM 4 with model 950 has score 0.53846
HMM 4 with model 951 has score 0.00000
HMM 4 with model 952 has score 0.00000
HMM 4 with model 953 has score 0.00000
HMM 4 with model 954 has score 0.00000
HMM 4 with model 955 has score 0.00000
HMM 4 with model 956 has score 0.07692
HMM 4 with model 957 has score 0.38462
HMM 4 with model 958 has score 0.00000
HMM 4 with model 959 has score 0.69231
HMM 4 with model 960 has score 0.00000
HMM 4 with model 961 has score 0.61538
HMM 4 with model 962 has score 0.00000
HMM 4 with model 963 has score 0.15385
HMM 4 with model 964 has score 0.03846
HMM 4 with model 965 has score 0.00000
HMM 4 with model 966 has score 0.26923
HMM 4 with model 967 has score 0.23077
HMM 4 with model 968 has score 0.00000
HMM 4 with model 969 has score 0.00000
HMM 4 with model 970 has score 0.07692
HMM 4 with model 971 has score 0.03846
HMM 4 with model 972 has score 0.23077
HMM 4 with model 973 has score 0.00000
HMM 4 with model 974 has score 0.00000
HMM 4 with model 975 has score 0.15385
HMM 4 with model 976 has score 0.07692
HMM 4 with model 977 has score 0.00000
HMM 4 with model 978 has score 0.11538
HMM 4 with model 979 has score 0.26923
HMM 4 with model 980 has score 0.07692
HMM 4 with model 981 has score 0.07692
HMM 4 with model 982 has score 0.03846
HMM 4 with model 983 has score 0.00000
HMM 4 with model 984 has score 0.00000
HMM 4 with model 985 has score 0.00000
HMM 4 with model 986 has score 0.11538
HMM 4 with model 987 has score 0.00000
HMM 4 with model 988 has score 0.00000
HMM 4 with model 989 has score 0.07692
HMM 4 with model 990 has score 0.00000
HMM 4 with model 991 has score 0.00000
HMM 4 with model 992 has score 0.00000
HMM 4 with model 993 has score 0.11538
HMM 4 with model 994 has score 0.00000
HMM 4 with model 995 has score 0.00000
HMM 4 with model 996 has score 0.69231
HMM 4 with model 997 has score 0.26923
HMM 4 with model 998 has score 0.11538
HMM 4 with model 999 has score 0.00000
HMM 4 with model 1000 has score 0.00000
The best score for HMM 4 was with model 21 with score 0.73077

(base) Yashs-MacBook-Pro:Assignment2 yash$
```