

Birthday Problem

<u>n</u>	<u>P(0)</u>	<u>1-P(0)</u>
1	1.000	0.000
2	0.997	0.003
3	0.992	0.008
4	0.984	0.016
5	0.973	0.027
6	0.960	0.040
7	0.944	0.056
8	0.926	0.074
9	0.905	0.095
10	0.883	0.117
11	0.859	0.141
12	0.833	0.167
13	0.806	0.194
14	0.777	0.223
15	0.747	0.253
16	0.716	0.284
17	0.685	0.315
18	0.653	0.347
19	0.621	0.379
20	0.589	0.411
21	0.556	0.444
22	0.524	0.476
23	0.493	0.507
24	0.462	0.538
25	0.431	0.569
26	0.402	0.598
27	0.373	0.627
28	0.346	0.654
29	0.319	0.681
30	0.294	0.706
31	0.270	0.730
32	0.247	0.753
33	0.225	0.775
34	0.205	0.795
35	0.186	0.814
36	0.168	0.832
37	0.151	0.849
38	0.136	0.864
39	0.122	0.878
40	0.109	0.891
41	0.097	0.903
42	0.086	0.914
43	0.076	0.924
44	0.067	0.933

45	0.059	0.941
46	0.052	0.948
47	0.045	0.955
48	0.039	0.961
49	0.034	0.966
50	0.030	0.970
51	0.026	0.974
52	0.022	0.978
53	0.019	0.981
54	0.016	0.984
55	0.014	0.986
56	0.012	0.988
57	0.010	0.990
58	0.008	0.992
59	0.007	0.993
60	0.006	0.994
61	0.005	0.995
62	0.004	0.996
63	0.003	0.997
64	0.003	0.997
65	0.002	0.998
66	0.002	0.998
67	0.002	0.998
68	0.001	0.999
69	0.001	0.999
70	0.001	0.999
71	0.001	0.999
72	0.001	0.999
73	0.000	1.000