

Gen # of possible direct-line ancestors

Total # of possible direct-line ancestors

1	2	2
2	4	6
3	8	14
4	16	30
5	32	62
6	64	126
7	128	254
8	256	510
9	512	1,022
10	1,024	2,046
11	2,048	4,094
12	4,096	8,190
13	8,192	16,382
14	16,384	32,766
15	32,768	65,534
16	65,536	131,070
17	131,072	262,142
18	262,144	524,286
19	524,288	1,048,574
20	1,048,576	2,097,150
21	2,097,152	4,194,302
22	4,194,304	8,388,606
23	8,388,608	16,777,214
24	16,777,216	33,554,430
25	33,554,432	67,108,862
26	67,108,864	134,217,726
27	134,217,728	268,435,454
28	268,435,456	536,870,910
29	536,870,912	1,073,741,822
30	1,073,741,824	2,147,483,646
31	2,147,483,648	4,294,967,294
32	4,294,967,296	8,589,934,590
33	8,589,934,592	17,179,869,182
34	17,179,869,184	34,359,738,366
35	34,359,738,368	68,719,476,734
36	68,719,476,736	137,438,953,470
37	137,438,953,472	274,877,906,942
38	274,877,906,944	549,755,813,886
39	549,755,813,888	1,099,511,627,774
40	1,099,511,627,776	2,199,023,255,550
41	2,199,023,255,552	4,398,046,511,102
42	4,398,046,511,104	8,796,093,022,206
43	8,796,093,022,208	17,592,186,044,414
44	17,592,186,044,416	35,184,372,088,830
45	35,184,372,088,832	70,368,744,177,662
46	70,368,744,177,664	140,737,488,355,326
47	140,737,488,355,328	281,474,976,710,654
48	281,474,976,710,656	562,949,953,421,310
49	562,949,953,421,312	1,125,899,906,842,620
50	1,125,899,906,842,620	2,251,799,813,685,250
51	2,251,799,813,685,250	4,503,599,627,370,490
52	4,503,599,627,370,500	9,007,199,254,740,990