

**MUY IMPORTANTE:** esto es solo una simulación simplista, NO SON CÁLCULOS REALES (la evolución real de una epidemia es mucho más compleja que esto). Estos cálculos son solo para mostrar cómo se comportan las tendencias en procesos exponenciales; (se nos hace muy difícil estimar su evolución por lo rápido que escalan fuera de control).

**Propuesta:** viendo solo la tendencia de los primeros 20 o 30 días, intentar predecir en cuántos días se llega al millón (1.000.000) de activos. Luego, una vez pensado el número de días, seguir bajando por la lista para comprobarlo.

nota: la población total de la Tierra somos unos seis mil millones (6.000.000.000) de personas.

índice multiplicativo:

**1,3**

El índice multiplicativo es la razón de progresión de la serie geométrica. Ha de ser mayor que 1.

periodo activo (días): 14

El periodo activo son el número de días que han de pasar para que un activo deje de serlo.

Días	variaciones		total de activos existentes	total acumulado de los que han sido activos en algún momento
	dejan de ser activos	nuevos activos		
0	-	-	<b>1</b>	1
1	-	0,30	1,00	1,30
2	-	0,30	1,30	1,60
3	-	0,39	1,69	1,99
4	-	0,51	2,20	2,50
5	-	0,66	2,86	3,16
6	-	0,86	3,71	4,01
7	-	1,11	4,83	5,13
8	-	1,45	6,27	6,57
9	-	1,88	8,16	8,46
10	-	2,45	11	11
11	-	3,18	14	14
12	-	4,14	18	18
13	-	5,38	23	24
14	-	6,99	30	31
15	0	9,09	39	40
16	0	11,72	50	51
17	0	15,15	65	67
18	1	19,58	84	86
19	1	25,30	109	111
20	1	32,69	141	144
21	1	42,24	182	186
22	1	54,58	235	241
23	2	70,51	304	311
24	2	91,10	392	403
25	3	117,70	507	520
26	4	152,06	655	672
27	5	196,43	846	869
28	7	253,75	1.093	1.122
29	9	327,78	1.411	1.450
30	12	423,38	1.823	1.874
31	15	546,88	2.355	2.421
32	20	706,40	3.041	3.127
33	25	912,45	3.929	4.039
34	33	1.178,59	5.075	5.218
35	42	1.522,36	6.555	6.740
36	55	1.966,40	8.466	8.707
37	71	2.539,95	10.936	11.247
38	91	3.280,78	14.126	14.527
39	118	4.237,68	18.246	18.765
40	152	5.473,67	23.567	24.239
41	196	7.070,16	30.441	31.309
42	254	9.132,27	39.319	40.441
43	328	11.795,83	50.787	52.237
44	423	15.236,25	65.600	67.473
45	547	19.680,11	84.734	87.153
46	706	25.420,07	109.447	112.573
47	912	32.834,18	141.369	145.408
48	1.179	42.410,69	182.601	187.818
49	1.522	54.780,32	235.859	242.599
50	1.966	70.757,71	304.650	313.356
51	2.540	91.395,11	393.506	404.751
52	3.281	118.051,66	508.276	522.803
53	4.238	152.482,92	656.522	675.286
54	5.474	196.956,49	848.004	872.243
55	7.070	254.401,34	1.095.336	1.126.644
56	9.132	328.600,70	1.414.804	1.455.245

57	11.796	424.441,22	1.827.449	1.879.686
58	15.236	548.234,84	2.360.448	2.427.921
59	19.680	708.134,42	3.048.902	3.136.055
60	25.420	914.670,71	3.938.153	4.050.726
61	32.834	1.181.445,91	5.086.765	5.232.172
62	42.411	1.526.029,43	6.570.383	6.758.201
63	54.780	1.971.115,05	8.486.718	8.729.316
64	70.758	2.546.015,46	10.961.976	11.275.332
65	91.395	3.288.592,79	14.159.174	14.563.924
66	118.052	4.247.752,09	18.288.874	18.811.676
67	152.483	5.486.662,22	23.623.053	24.298.339
68	196.956	7.086.916,01	30.513.013	31.385.255
69	254.401	9.153.903,86	39.412.515	40.539.159
70	328.601	11.823.754,62	50.907.669	52.362.913
71	424.441	15.272.300,80	65.755.529	67.635.214
72	548.235	19.726.658,67	84.933.953	87.361.873
73	708.134	25.480.185,81	109.706.004	112.842.058
74	914.671	32.911.801,23	141.703.135	145.753.860
75	1.181.446	42.510.940,39	183.032.629	188.264.800
76	1.526.029	54.909.788,73	236.416.388	243.174.589
77	1.971.115	70.924.916,52	305.370.190	314.099.505
78	2.546.015	91.611.056,97	394.435.231	405.710.562
79	3.288.593	118.330.569,42	509.477.208	524.041.132
80	4.247.752	152.843.162,41	658.072.618	676.884.294
81	5.486.662	197.421.785,51	850.007.742	874.306.080
82	7.086.916	255.002.322,50	1.097.923.148	1.129.308.402
83	9.153.904	329.376.944,44	1.418.146.189	1.458.685.347
84	11.823.755	425.443.856,62	1.831.766.291	1.884.129.203
85	15.272.301	549.529.887,21	2.366.023.877	2.433.659.090
86	19.726.659	709.807.163,14	3.056.104.382	3.143.466.254
87	25.480.186	916.831.314,48	3.947.455.510	4.060.297.568
88	32.911.801	1.184.236.653,08	5.098.780.362	5.244.534.221
89	42.510.940	1.529.634.108,64	6.585.903.530	6.774.168.330
90	54.909.789	1.975.771.059,11	8.506.764.801	8.749.939.389
91	70.924.917	2.552.029.440,23	10.987.869.324	11.301.968.829
92	91.611.057	3.296.360.797,34	14.192.619.065	14.598.329.626
93	118.330.569	4.257.785.719,45	18.332.074.215	18.856.115.346
94	152.843.162	5.499.622.264,46	23.678.853.317	24.355.737.610
95	197.421.786	7.103.655.995,08	30.585.087.526	31.459.393.605
96	255.002.322	9.175.526.257,95	39.505.611.462	40.634.919.863
97	329.376.944	11.851.683.438,58	51.027.917.956	52.486.603.302
98	425.443.857	15.308.375.386,83	65.910.849.486	67.794.978.689
99	549.529.887	19.773.254.845,89	85.134.574.445	87.568.233.535
100	709.807.163	25.540.372.333,49	109.965.139.615	113.108.605.868
101	916.831.314	32.989.541.884,60	142.037.850.185	146.098.147.753
102	1.184.236.653	42.611.355.055,63	183.464.968.588	188.709.502.808
103	1.529.634.109	55.039.490.576,40	236.974.825.056	243.748.993.385
104	1.975.771.059	71.092.447.516,72	306.091.501.513	314.841.440.902
105	2.552.029.440	91.827.450.454,01	395.366.922.527	406.668.891.356
106	3.296.360.797	118.610.076.758,14	510.680.638.488	525.278.968.114
107	4.257.785.719	153.204.191.546,38	659.627.044.315	678.483.159.660
108	5.499.622.264	197.888.113.294,46	852.015.535.345	876.371.272.955
109	7.103.655.995	255.604.660.603,46	1.100.516.539.953	1.131.975.933.558
110	9.175.526.258	330.154.961.985,97	1.421.495.975.681	1.462.130.895.544
111	11.851.683.439	426.448.792.704,38	1.836.093.084.947	1.888.579.688.248
112	15.308.375.387	550.827.925.484,11	2.371.612.635.044	2.439.407.613.732
113	19.773.254.846	711.483.790.513,30	3.063.323.170.712	3.150.891.404.246
114	25.540.372.333	918.996.951.213,52	3.956.779.749.592	4.069.888.355.459
115	32.989.541.885	1.187.033.924.877,53	5.110.824.132.585	5.256.922.280.337
116	42.611.355.056	1.533.247.239.775,41	6.601.460.017.304	6.790.169.520.112
117	55.039.490.576	1.980.438.005.191,34	8.526.858.531.919	8.770.607.525.304
118	71.092.447.517	2.558.057.559.575,83	11.013.823.643.979	11.328.665.084.879
119	91.827.450.454	3.304.147.093.193,55	14.226.143.286.718	14.632.812.178.073
120	118.610.076.758	4.267.842.986.015,42	18.375.376.195.975	18.900.655.164.088
121	153.204.191.546	5.512.612.858.792,60	23.734.784.863.222	24.413.268.022.881
122	197.888.113.294	7.120.435.458.966,47	30.657.332.208.894	31.533.703.481.847
123	255.604.660.603	9.197.199.662.668,07	39.598.927.210.958	40.730.903.144.516
124	330.154.961.986	11.879.678.163.287,50	51.148.450.412.260	52.610.581.307.803
125	426.448.792.704	15.344.535.123.677,90	66.066.536.743.233	67.955.116.431.481
126	550.827.925.484	19.819.961.022.970,00	85.335.669.840.719	87.775.077.454.451
127	711.483.790.513	25.600.700.952.215,70	110.224.887.002.422	113.375.778.406.667
128	918.996.951.214	33.067.466.100.726,50	142.373.356.151.934	146.443.244.507.393
129	1.187.033.924.878	42.712.006.845.580,30	183.898.329.072.637	189.155.251.352.973
130	1.533.247.239.775	55.169.498.721.791,20	237.534.580.554.653	244.324.750.074.765