

Distribución Binomial Acumulativa

$$P(X \leq x) = \sum_{i=0}^x \binom{n}{i} p^i (1-p)^{n-i}$$

n	x	p														
		0.01	0.025	0.05	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.95	0.975	0.99
1	0	0.99	0.975	0.95	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.05	0.025	0.01
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	0	0.9801	0.95063	0.9025	0.81	0.64	0.49	0.36	0.25	0.16	0.09	0.04	0.01	0.0025	0.00063	0.0001
	1	0.9999	0.99938	0.9975	0.99	0.96	0.91	0.84	0.75	0.64	0.51	0.36	0.19	0.0975	0.04938	0.0199
3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0.9703	0.92686	0.85738	0.729	0.512	0.343	0.216	0.125	0.064	0.027	0.008	0.001	0.00013	1.6E-05	1E-06
	1	0.9997	0.99816	0.99275	0.972	0.896	0.784	0.648	0.5	0.352	0.216	0.104	0.028	0.00725	0.00184	0.0003
	2	1	0.99998	0.99988	0.999	0.992	0.973	0.936	0.875	0.784	0.657	0.488	0.271	0.14263	0.07314	0.0297
4	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0.9606	0.90369	0.81451	0.6561	0.4096	0.2401	0.1296	0.0625	0.0256	0.0081	0.0016	1E-04	6.3E-06	3.9E-07	1E-08
	1	0.99941	0.99637	0.98598	0.9477	0.8192	0.6517	0.4752	0.3125	0.1792	0.0837	0.0272	0.0037	0.00048	6.1E-05	4E-06
	2	1	0.99994	0.99952	0.9963	0.9728	0.9163	0.8208	0.6875	0.5248	0.3483	0.1808	0.0523	0.01402	0.00363	0.00059
5	3	1	1	0.99999	0.9999	0.9984	0.9919	0.9744	0.9375	0.8704	0.7599	0.5904	0.3439	0.18549	0.09631	0.0394
	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0.95099	0.8811	0.77378	0.59049	0.32768	0.16807	0.07776	0.03125	0.01024	0.00243	0.00032	1E-05	3.1E-07	9.8E-09	1E-10
	1	0.99902	0.99406	0.97741	0.91854	0.73728	0.52822	0.33696	0.1875	0.08704	0.03078	0.00672	0.00046	3E-05	1.9E-06	5E-08
	2	0.99999	0.99985	0.99884	0.99144	0.94208	0.83692	0.68256	0.5	0.31744	0.16308	0.05792	0.00856	0.00116	0.00015	9.9E-06
6	3	1	1	0.99997	0.99954	0.99328	0.96922	0.91296	0.8125	0.66304	0.47178	0.26272	0.08146	0.02259	0.00594	0.00098
	4	1	1	1	0.99999	0.99968	0.99757	0.98976	0.96875	0.92224	0.83193	0.67232	0.40951	0.22622	0.1189	0.04901
	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0.94148	0.85907	0.73509	0.53144	0.26214	0.11765	0.04666	0.01563	0.0041	0.00073	6.4E-05	1E-06	1.6E-08	2.4E-10	1E-12
	1	0.99854	0.99123	0.96723	0.88574	0.65536	0.42018	0.23328	0.10938	0.04096	0.01094	0.0016	5.5E-05	1.8E-06	5.7E-08	6E-10
	2	0.99998	0.9997	0.99777	0.98415	0.90112	0.74431	0.54432	0.34375	0.1792	0.07047	0.01696	0.00127	8.6E-05	5.6E-06	1.5E-07
	3	1	0.99999	0.99991	0.99873	0.98304	0.92953	0.8208	0.65625	0.45568	0.25569	0.09888	0.01585	0.00223	0.0003	2E-05
7	4	1	1	1	0.99995	0.9984	0.98906	0.95904	0.89063	0.76672	0.57983	0.34464	0.11427	0.03277	0.00877	0.00146
	5	1	1	1	1	0.99994	0.99927	0.9959	0.98438	0.95334	0.88235	0.73786	0.46856	0.26491	0.14093	0.05852
	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0.93207	0.83759	0.69834	0.4783	0.20972	0.08235	0.02799	0.00781	0.00164	0.00022	1.3E-05	1E-07	7.8E-10	6.1E-12	1E-14
	1	0.99797	0.98793	0.95562	0.85031	0.57672	0.32942	0.15863	0.0625	0.01884	0.00379	0.00037	6.4E-06	1E-07	1.7E-09	6.9E-12
	2	0.99997	0.99949	0.99624	0.97431	0.85197	0.64707	0.4199	0.22656	0.09626	0.0288	0.00467	0.00018	6E-06	2E-07	2.1E-09
	3	1	0.99999	0.99981	0.99727	0.96666	0.87396	0.71021	0.5	0.28979	0.12604	0.03334	0.00273	0.00019	1.3E-05	3.4E-07
8	4	1	1	0.99999	0.99982	0.99533	0.9712	0.90374	0.77344	0.5801	0.35293	0.14803	0.02569	0.00376	0.00051	3.4E-05
	5	1	1	1	0.99999	0.99963	0.99621	0.98116	0.9375	0.84137	0.67058	0.42328	0.14969	0.04438	0.01207	0.00203
	6	1	1	1	1	0.99999	0.99978	0.99836	0.99219	0.97201	0.91765	0.79028	0.5217	0.30166	0.16241	0.06793
	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0.92274	0.81665	0.66342	0.43047	0.16777	0.05765	0.0168	0.00391	0.00066	6.6E-05	2.6E-06	1E-08	3.9E-11	1.5E-13	1E-16
	1	0.99731	0.98417	0.94276	0.8131	0.50332	0.2553	0.10638	0.03516	0.00852	0.00129	8.4E-05	7.3E-07	6E-09	4.8E-11	7.9E-14
	2	0.99995	0.9992	0.99421	0.96191	0.79692	0.55177	0.31539	0.14453	0.04981	0.01129	0.00123	2.3E-05	4E-07	6.5E-09	2.8E-11
9	3	1	0.99997	0.99963	0.99498	0.94372	0.8059	0.59409	0.36328	0.17367	0.05797	0.01041	0.00043	1.5E-05	5.1E-07	5.5E-09
	4	1	1	0.99998	0.99957	0.98959	0.94203	0.82633	0.63672	0.40591	0.1941	0.05628	0.00502	0.00037	2.5E-05	6.8E-07
	5	1	1	1	0.99998	0.99877	0.98871	0.95019	0.85547	0.68461	0.44823	0.20308	0.03809	0.00579	0.0008	5.4E-05
	6	1	1	1	1	0.99992	0.99871	0.99148	0.96484	0.89362	0.7447	0.49668	0.1869	0.05724	0.01583	0.00269
	7	1	1	1	1	1	0.99993	0.99934	0.99609	0.9832	0.94235	0.83223	0.56953	0.33658	0.18335	0.07726
	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0.91352	0.79624	0.63025	0.38742	0.13422	0.04035	0.01008	0.00195	0.00026	2E-05	5.1E-07	1E-09	2E-12	3.8E-15	1E-18
10	1	0.99656	0.97998	0.92879	0.77484	0.43621	0.196	0.07054	0.01953	0.0038	0.00043	1.9E-05	8.2E-08	3.4E-10	1.3E-12	8.9E-16
	2	0.99992	0.99883	0.99164	0.94703	0.7382	0.46283	0.23179	0.08984	0.02503	0.00429	0.00031	3E-06	2.6E-08	2.1E-10	3.5E-13
	3	1	0.99996	0.99936	0.99167	0.91436	0.72966	0.48261	0.25391	0.09935	0.02529	0.00307	6.4E-05	1.2E-06	1.9E-08	8.2E-11
	4	1	1	0.99997	0.99911	0.98042	0.90119	0.73343	0.5	0.26657	0.09881	0.01958	0.00089	3.3E-05	1.1E-06	1.2E-08
	5	1	1	1	0.99994	0.99693	0.97471	0.90065	0.74609	0.51739	0.27034	0.08564	0.00833	0.00064	4.4E-05	1.2E-06
	6	1	1	1	1	0.99969	0.99571	0.97497	0.91016	0.76821	0.53717	0.2618	0.05297	0.00836	0.00117	8E-05
	7	1	1	1	1	0.99998	0.99957	0.9962	0.98047	0.92946	0.804	0.56379	0.22516	0.07121	0.02002	0.00344
11	8	1	1	1	1	1	0.99998	0.99974	0.99805	0.98992	0.95965	0.86578	0.61258	0.36975	0.20376	0.08648
	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0.90438	0.77633	0.59874	0.34868	0.10737	0.02825	0.00605	0.00098	0.0001	5.9E-06	1E-07	1E-10	9.8E-14	9.5E-17	1E-20
	1	0.99573	0.97539	0.91386	0.7361	0.37581	0.14931	0.04636	0.01074	0.00168	0.00014	4.2E-06	9.1E-09	1.9E-11	3.7E-14	9.9E-18
	2	0.99989	0.99836	0.9885	0.92981	0.6778	0.38278	0.16729	0.05469	0.01229	0.00159	7.8E-05	3.7E-07	1.6E-09	6.6E-12	4.4E-15
	3	1	0.99993	0.99897	0.9872	0.87913	0.64961	0.38228	0.17188	0.05476	0.01059	0.00086	9.1E-06	8.2E-08	6.9E-10	1.2E-12
	4	1	1	0.99994	0.99837	0.96721	0.84973	0.6331	0.37695	0.16624	0.04735	0.00637	0.00015	2.8E-06	4.7E-08	2E-10
12	5	1	1	1	0.99985	0.99363	0.95265	0.83376	0.62305	0.3669	0.15027	0.03279	0.00163	6.4E-05	2.2E-06	2.4E-08
	6	1	1	1	0.99999	0.99914	0.98941	0.94524	0.82813	0.61772	0.35039	0.12087	0.0128	0.00103	7.3E-05	2E-06
	7	1	1	1	1	0.99992	0.99841	0.98771	0.94531	0.83271	0.61722	0.3222	0.07019	0.0115	0.00164	0.00011
	8	1	1	1	1	1	0.99986	0.99832	0.98926	0.95364	0.85069	0.62419	0.2639	0.08614	0.02461	0.00427

$$P(X \leq x) = \sum_{i=0}^x \binom{n}{i} p^i (1-p)^{n-i}$$

n	x	p														
		0.01	0.025	0.05	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.95	0.975	0.99
11	0	0.89534	0.75692	0.5688	0.31381	0.0859	0.01977	0.00363	0.00049	4.2E-05	1.8E-06	2E-08	1E-11	4.9E-15	2.4E-18	1E-22
	1	0.99482	0.97041	0.89811	0.69736	0.32212	0.11299	0.03023	0.00586	0.00073	4.7E-05	9.2E-07	1E-09	1E-12	1E-15	1.1E-19
	2	0.99984	0.99778	0.98476	0.91044	0.6174	0.31274	0.11892	0.03271	0.00592	0.00058	1.9E-05	4.6E-08	9.8E-11	2E-13	5.4E-17
	3	1	0.99989	0.99845	0.98147	0.83886	0.56956	0.29628	0.11328	0.02928	0.00429	0.00024	1.2E-06	5.6E-09	2.4E-11	1.6E-14
	4	1	1	0.99989	0.99725	0.94959	0.7897	0.53277	0.27441	0.09935	0.02162	0.00197	2.3E-05	2.2E-07	1.8E-09	3.2E-12
	5	1	1	0.99999	0.9997	0.98835	0.92178	0.7535	0.5	0.2465	0.07822	0.01165	0.0003	5.8E-06	1E-07	4.4E-10
	6	1	1	1	0.99998	0.99803	0.97838	0.90065	0.72559	0.46723	0.2103	0.05041	0.00275	0.00011	4E-06	4.4E-08
	7	1	1	1	1	0.99976	0.99571	0.97072	0.88672	0.70372	0.43044	0.16114	0.01853	0.00155	0.00011	3.1E-06
	8	1	1	1	1	0.99998	0.99942	0.99408	0.96729	0.88108	0.68726	0.3826	0.08956	0.01524	0.00222	0.00016
	9	1	1	1	1	1	0.99995	0.99927	0.99414	0.96977	0.88701	0.67788	0.30264	0.10189	0.02959	0.00518
	10	1	1	1	1	1	1	0.99996	0.99951	0.99637	0.98023	0.9141	0.68619	0.4312	0.24308	0.10466
	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	0	0.88638	0.738	0.54036	0.28243	0.06872	0.01384	0.00218	0.00024	1.7E-05	5.3E-07	4.1E-09	1E-12	2.4E-16	6E-20	1E-24
	1	0.99383	0.96507	0.88164	0.659	0.27488	0.08503	0.01959	0.00317	0.00032	1.5E-05	2E-07	1.1E-10	5.6E-14	2.8E-17	1.2E-21
	2	0.99979	0.9971	0.98043	0.88913	0.55835	0.25282	0.08344	0.01929	0.00281	0.00021	4.5E-06	5.5E-09	5.9E-12	6E-15	6.5E-19
	3	1	0.99984	0.99776	0.97436	0.79457	0.49252	0.22534	0.073	0.01527	0.00169	6.2E-05	1.7E-07	3.7E-10	7.8E-13	2.1E-16
	4	1	0.99999	0.99982	0.99567	0.92744	0.72366	0.43818	0.19385	0.05731	0.00949	0.00058	3.4E-06	1.6E-08	6.9E-11	4.8E-14
	5	1	1	0.99999	0.99946	0.98059	0.88215	0.66521	0.38721	0.15821	0.0386	0.0039	5E-05	4.9E-07	4.3E-09	7.6E-12
	6	1	1	1	0.99995	0.9961	0.9614	0.84179	0.61279	0.33479	0.11785	0.01941	0.00054	1.1E-05	2E-07	8.8E-10
	7	1	1	1	1	0.99942	0.99051	0.94269	0.80615	0.56182	0.27634	0.07256	0.00433	0.00018	6.7E-06	7.5E-08
	8	1	1	1	1	0.99994	0.99831	0.98473	0.927	0.77466	0.50748	0.20543	0.02564	0.00224	0.00016	4.6E-06
	9	1	1	1	1	1	0.99979	0.99719	0.98071	0.91656	0.74718	0.44165	0.11087	0.01957	0.0029	0.00021
	10	1	1	1	1	1	0.99998	0.99968	0.99683	0.98041	0.91497	0.72512	0.341	0.11836	0.03493	0.00617
	11	1	1	1	1	1	1	0.99998	0.99976	0.99782	0.98616	0.93128	0.71757	0.45964	0.262	0.11362
	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	0	0.87752	0.71955	0.51334	0.25419	0.05498	0.00969	0.00131	0.00012	6.7E-06	1.6E-07	8.2E-10	1E-13	1.2E-17	1.5E-21	1E-26
	1	0.99275	0.9594	0.86458	0.62134	0.23365	0.06367	0.01263	0.00171	0.00014	5E-06	4.3E-08	1.2E-11	3E-15	7.6E-19	1.3E-23
	2	0.99973	0.9963	0.97549	0.86612	0.50165	0.20248	0.0579	0.01123	0.00132	7.3E-05	1.1E-06	6.4E-10	3.5E-13	1.8E-16	7.7E-21
	3	0.99999	0.99977	0.9969	0.96584	0.74732	0.42061	0.16858	0.04614	0.00779	0.00065	1.6E-05	2.1E-08	2.4E-11	2.5E-14	2.8E-18
	4	1	0.99999	0.99971	0.99354	0.90087	0.65431	0.35304	0.13342	0.03208	0.00403	0.00017	4.9E-07	1.2E-09	2.5E-12	6.9E-16
	5	1	1	0.99998	0.99908	0.96996	0.8346	0.5744	0.29053	0.09767	0.01822	0.00125	8.1E-06	4E-08	1.8E-10	1.2E-13
	6	1	1	1	0.9999	0.993	0.93762	0.77116	0.5	0.22884	0.06238	0.007	9.9E-05	1E-06	9.2E-09	1.6E-11
	7	1	1	1	0.99999	0.99875	0.98178	0.90233	0.70947	0.4256	0.1654	0.03004	0.00092	2E-05	3.6E-07	1.6E-09
	8	1	1	1	1	0.99983	0.99597	0.96792	0.86658	0.64696	0.34569	0.09913	0.00646	0.00029	1.1E-05	1.2E-07
	9	1	1	1	1	0.99998	0.99935	0.99221	0.95386	0.83142	0.57939	0.25268	0.03416	0.0031	0.00023	6.7E-06
	10	1	1	1	1	1	0.99993	0.99868	0.98877	0.9421	0.79752	0.49835	0.13388	0.02451	0.0037	0.00027
	11	1	1	1	1	1	0.99986	0.99829	0.98737	0.93633	0.76635	0.37866	0.13542	0.0406	0.00725	
	12	1	1	1	1	1	1	0.99999	0.99988	0.99869	0.99031	0.94502	0.74581	0.48666	0.28045	0.12248
	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	0	0.86875	0.70156	0.48767	0.22877	0.04398	0.00678	0.00078	6.1E-05	2.7E-06	4.8E-08	1.6E-10	1E-14	6.1E-19	3.7E-23	1E-28
	1	0.9916	0.9534	0.84701	0.58463	0.19791	0.04748	0.0081	0.00092	5.9E-05	1.6E-06	9.3E-09	1.3E-12	1.6E-16	2E-20	1.4E-25
	2	0.99966	0.99538	0.96995	0.84164	0.44805	0.16084	0.03979	0.00647	0.00061	2.5E-05	2.5E-07	7.5E-11	2E-14	5.2E-18	8.9E-23
	3	0.99999	0.99968	0.99583	0.95587	0.69819	0.35517	0.12431	0.02869	0.00391	0.00025	4.1E-06	2.7E-09	1.5E-12	8.1E-16	3.5E-20
	4	1	0.99998	0.99957	0.99077	0.87016	0.5842	0.27926	0.08978	0.01751	0.00167	4.6E-05	6.8E-08	8.1E-11	8.7E-14	9.7E-18
	5	1	1	0.99997	0.99853	0.95615	0.78052	0.48585	0.21198	0.05832	0.00829	0.00038	1.3E-06	3.1E-09	6.8E-12	1.9E-15
	6	1	1	1	0.99982	0.98839	0.90672	0.69245	0.39526	0.15014	0.03147	0.0024	1.7E-05	8.9E-08	4E-10	2.8E-13
	7	1	1	1	0.99998	0.9976	0.96853	0.84986	0.60474	0.30755	0.09328	0.01161	0.00018	2E-06	1.8E-08	3.2E-11
	8	1	1	1	1	0.99962	0.99171	0.94168	0.78802	0.51415	0.21948	0.04385	0.00147	3.3E-05	6.2E-07	2.8E-09
	9	1	1	1	1	0.99995	0.99833	0.98249	0.91022	0.72074	0.4158	0.12984	0.00923	0.00043	1.6E-05	1.9E-07
	10	1	1	1	1	1	0.99975	0.99609	0.97131	0.87569	0.64483	0.30181	0.04413	0.00417	0.00032	9.2E-06
	11	1	1	1	1	1	0.99997	0.99939	0.99353	0.96021	0.83916	0.55195	0.15836	0.03005	0.00462	0.00034
	12	1	1	1	1	1	1	0.99994	0.99908	0.9919	0.95252	0.80209	0.41537	0.15299	0.0466	0.0084
	13	1	1	1	1	1	1	0.99994	0.99922	0.99322	0.95602	0.77123	0.51233	0.29844	0.13125	
	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	0	0.86006	0.68402	0.46329	0.20589	0.03518	0.00475	0.00047	3.1E-05	1.1E-06	1.4E-08	3.3E-11	1E-15	3.1E-20	9.3E-25	1E-30
	1	0.99037	0.94711	0.82905	0.54904	0.16713	0.03527	0.00517	0.00049	2.5E-05	5.2E-07	2E-09	1.4E-13	8.7E-18	5.5E-22	1.5E-27
	2	0.99958	0.99433	0.9638	0.81594	0.39802	0.12683	0.02711	0.00369	0.00028	8.7E-06	5.7E-08	8.6E-12	1.2E-15	1.5E-19	1E-24
	3	0.99999	0.99957	0.99453	0.94444	0.64816	0.29687	0.0905	0.01758	0.00193	9.2E-05	1E-06	3.4E-10	9.6E-14	2.5E-17	4.4E-22
	4	1	0.99998	0.99939	0.98728	0.83577	0.51549	0.21728	0.05923	0.00935	0.00067	1.2E-05	9.3E-09	5.5E-12	3E-15	1.3E-19
	5	1	1	0.99995	0.99775	0.93895	0.72162	0.40322	0.15088	0.03383	0.00365	0.00011	1.9E-07	2.3E-10	2.6E-13	2.9E-17
	6	1	1	1	0.99969	0.98194	0.86886	0.60981	0.30362	0.09505	0.01524	0.00078	2.8E-06	7.4E-09	1.7E-11	4.7E-15

$$P(X \leq x) = \sum_{i=0}^x \binom{n}{i} p^i (1-p)^{n-i}$$

n	x	p														
		0.01	0.025	0.05	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.95	0.975	0.99
16	0	0.85146	0.66692	0.44013	0.1853	0.02815	0.00332	0.00028	1.5E-05	4.3E-07	4.3E-09	6.6E-12	1E-16	1.5E-21	2.3E-26	1E-32
	1	0.98907	0.94053	0.81076	0.51473	0.14074	0.02611	0.00329	0.00026	1.1E-05	1.7E-07	4.3E-10	1.4E-14	4.7E-19	1.5E-23	1.6E-29
	2	0.99949	0.99315	0.95706	0.78925	0.35184	0.09936	0.01834	0.00209	0.00013	3E-06	1.3E-08	9.9E-13	6.7E-17	4.3E-21	1.2E-26
	3	0.99998	0.99944	0.993	0.93159	0.59813	0.24586	0.06515	0.01064	0.00094	3.4E-05	2.5E-07	4.2E-11	5.9E-15	7.8E-19	5.4E-24
	4	1	0.99997	0.99914	0.983	0.79825	0.4499	0.16657	0.03841	0.0049	0.00027	3.3E-06	1.2E-09	3.7E-13	9.9E-17	1.8E-21
	5	1	1	0.99992	0.9967	0.91831	0.65978	0.32884	0.10506	0.01914	0.00157	3.3E-05	2.7E-08	1.7E-11	9.3E-15	4.2E-19
	6	1	1	0.99999	0.9995	0.97334	0.82469	0.52717	0.22725	0.05832	0.00713	0.00025	4.5E-07	5.9E-10	6.7E-13	7.6E-17
	7	1	1	1	0.99994	0.993	0.92565	0.71606	0.40181	0.14227	0.02567	0.00148	5.9E-06	1.6E-08	3.7E-11	1.1E-14
	8	1	1	1	0.99999	0.99852	0.97433	0.85773	0.59819	0.28394	0.07435	0.007	6.1E-05	3.5E-07	1.6E-09	1.2E-12
	9	1	1	1	1	0.99975	0.99287	0.94168	0.77275	0.47283	0.17531	0.02666	0.0005	6E-06	5.7E-08	1.1E-10
	10	1	1	1	1	0.99997	0.99843	0.98086	0.89494	0.67116	0.34022	0.08169	0.0033	8.1E-05	1.6E-06	7.3E-09
	11	1	1	1	1	1	0.99973	0.9951	0.96159	0.83343	0.5501	0.20175	0.017	0.00086	3.4E-05	4E-07
	12	1	1	1	1	1	0.99997	0.99906	0.98936	0.93485	0.75414	0.40187	0.06841	0.007	0.00056	1.7E-05
	13	1	1	1	1	1	1	0.99987	0.99791	0.98166	0.90064	0.64816	0.21075	0.04294	0.00685	0.00051
	14	1	1	1	1	1	1	0.99999	0.99974	0.99671	0.97389	0.85926	0.48527	0.18924	0.05947	0.01093
	15	1	1	1	1	1	1	1	0.99998	0.99972	0.99668	0.97185	0.8147	0.55987	0.33308	0.14854
	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	0	0.84294	0.65025	0.41812	0.16677	0.02252	0.00233	0.00017	7.6E-06	1.7E-07	1.3E-09	1.3E-12	1E-17	7.6E-23	5.8E-28	1E-34
	1	0.98769	0.93369	0.79223	0.48179	0.11822	0.01928	0.00209	0.00014	4.6E-06	5.3E-08	9E-11	1.5E-15	2.5E-20	3.9E-25	1.7E-31
	2	0.99939	0.99183	0.94975	0.7618	0.30962	0.07739	0.01232	0.00117	5.7E-05	1E-06	2.9E-09	1.1E-13	3.8E-18	1.2E-22	1.3E-28
	3	0.99998	0.99928	0.9912	0.91736	0.54888	0.20191	0.04642	0.00636	0.00045	1.2E-05	6E-08	5.1E-12	3.6E-16	2.4E-20	6.6E-26
	4	1	0.99995	0.99884	0.97786	0.75822	0.38869	0.126	0.02452	0.00252	0.0001	8.6E-07	1.6E-10	2.4E-14	3.2E-18	2.3E-23
	5	1	1	0.99988	0.99533	0.8943	0.59682	0.26393	0.07173	0.01059	0.00066	9.2E-06	3.8E-09	1.2E-12	3.3E-16	5.9E-21
	6	1	1	0.99999	0.99922	0.96234	0.77522	0.44784	0.16615	0.03481	0.00324	7.6E-05	7E-08	4.6E-11	2.6E-14	1.2E-18
	7	1	1	1	0.99989	0.98907	0.89536	0.64051	0.31453	0.0919	0.01269	0.00049	1E-06	1.4E-09	1.6E-12	1.8E-16
	8	1	1	1	0.99999	0.99742	0.95972	0.80106	0.5	0.19894	0.04028	0.00258	1.1E-05	3.3E-08	7.7E-11	2.3E-14
	9	1	1	1	1	0.99951	0.98731	0.9081	0.68547	0.35949	0.10464	0.01093	0.00011	6.3E-07	3E-09	2.2E-12
	10	1	1	1	1	0.99992	0.99676	0.96519	0.83385	0.55216	0.22478	0.03766	0.00078	9.7E-06	9.5E-08	1.8E-10
	11	1	1	1	1	0.99999	0.99934	0.98941	0.92827	0.73607	0.40318	0.1057	0.00467	0.00012	2.4E-06	1.1E-08
	12	1	1	1	1	1	0.9999	0.99748	0.97548	0.874	0.61131	0.24178	0.02214	0.00116	4.7E-05	5.6E-07
	13	1	1	1	1	1	0.99999	0.99955	0.99364	0.95358	0.79809	0.45112	0.08264	0.0088	0.00072	2.1E-05
	14	1	1	1	1	1	1	0.99994	0.99883	0.98768	0.92261	0.69038	0.2382	0.05025	0.00817	0.00061
	15	1	1	1	1	1	1	1	0.99986	0.99791	0.98072	0.88178	0.51821	0.20777	0.06631	0.01231
	16	1	1	1	1	1	1	1	0.99999	0.99983	0.99767	0.97748	0.83323	0.58188	0.34975	0.15706
	17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	0	0.83451	0.63399	0.39721	0.15009	0.01801	0.00163	0.0001	3.8E-06	6.9E-08	3.9E-10	2.6E-13	1E-18	3.8E-24	1.5E-29	1E-36
	1	0.98624	0.9266	0.77352	0.45028	0.09908	0.01419	0.00132	7.2E-05	1.9E-06	1.7E-08	1.9E-11	1.6E-16	1.3E-21	1E-26	1.8E-33
	2	0.99927	0.99038	0.94187	0.7338	0.27134	0.05995	0.00823	0.00066	2.6E-05	3.4E-07	6.6E-10	1.3E-14	2.1E-19	3.4E-24	1.5E-30
	3	0.99997	0.9991	0.98913	0.9018	0.50103	0.16455	0.03278	0.00377	0.00021	4.4E-06	1.4E-08	6.1E-13	2.2E-17	7.1E-22	7.9E-28
	4	1	0.99994	0.99845	0.97181	0.71635	0.33265	0.09417	0.01544	0.00128	3.9E-05	2.2E-07	2.1E-11	1.5E-15	1E-19	2.9E-25
	5	1	1	0.99983	0.99358	0.86708	0.53438	0.20876	0.04813	0.00575	0.00027	2.5E-06	5.3E-10	8.2E-14	1.1E-17	8.2E-23
	6	1	1	0.99998	0.99883	0.94873	0.7217	0.37428	0.11894	0.02028	0.00143	2.2E-05	1E-08	3.4E-12	9.6E-16	1.8E-20
	7	1	1	1	0.99983	0.98372	0.85932	0.56344	0.24034	0.05765	0.00607	0.00016	1.6E-07	1.1E-10	6.5E-14	3E-18
	8	1	1	1	0.99998	0.99575	0.94041	0.73684	0.40726	0.13471	0.02097	0.00091	2E-06	2.9E-09	3.5E-12	4.1E-16
	9	1	1	1	1	0.99909	0.97903	0.86529	0.59274	0.26316	0.05959	0.00425	2.1E-05	6.3E-08	1.5E-10	4.5E-14
	10	1	1	1	1	0.99984	0.99393	0.94235	0.75966	0.43656	0.14068	0.01628	0.00017	1.1E-06	5.3E-09	4E-12
	11	1	1	1	1	0.99998	0.99857	0.97972	0.88106	0.62572	0.2783	0.05127	0.00117	1.5E-05	1.5E-07	2.9E-10
	12	1	1	1	1	1	0.99973	0.99425	0.95187	0.79124	0.46562	0.13292	0.00642	0.00017	3.5E-06	1.7E-08
	13	1	1	1	1	1	0.99996	0.99872	0.98456	0.90583	0.66735	0.28365	0.02819	0.00155	6.4E-05	7.7E-07
	14	1	1	1	1	1	1	0.99979	0.99623	0.96722	0.83545	0.49897	0.0982	0.01087	0.0009	2.7E-05
	15	1	1	1	1	1	1	0.99997	0.99934	0.99177	0.94005	0.72866	0.2662	0.05813	0.00962	0.00073
	16	1	1	1	1	1	1	0.99993	0.99868	0.98581	0.90092	0.54972	0.22648	0.0734	0.01376	
	17	1	1	1	1	1	1	1	0.9999	0.99837	0.98199	0.84991	0.60279	0.36601	0.16549	
	18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

$$P(X \leq x) = \sum_{i=0}^x \binom{n}{i} p^i (1-p)^{n-i}$$

n	x	p														
		0.01	0.025	0.05	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.95	0.975	0.99
19	0	0.82617	0.61814	0.37735	0.13509	0.01441	0.00114	6.1E-05	1.9E-06	2.7E-08	1.2E-10	5.2E-14	1E-19	1.9E-25	3.6E-31	1E-38
	1	0.98473	0.91929	0.75471	0.42026	0.08287	0.01042	0.00083	3.8E-05	8.1E-07	5.3E-09	4E-12	1.7E-17	6.9E-23	2.7E-28	1.9E-35
	2	0.99914	0.98878	0.93345	0.70544	0.23689	0.04622	0.00546	0.00036	1.1E-05	1.1E-07	1.5E-10	1.4E-15	1.2E-20	9.5E-26	1.7E-32
	3	0.99997	0.99888	0.98676	0.885	0.45509	0.13317	0.02296	0.00221	0.0001	1.5E-06	3.4E-09	7.2E-14	1.3E-18	2.1E-23	9.4E-30
	4	1	0.99992	0.99799	0.96481	0.67329	0.28222	0.06961	0.00961	0.00064	1.5E-05	5.5E-08	2.6E-12	9.8E-17	3.3E-21	3.7E-27
	5	1	0.99999	0.99976	0.99141	0.83694	0.47386	0.16292	0.03178	0.00307	0.00011	6.8E-07	7.1E-11	5.6E-15	3.8E-19	1.1E-24
	6	1	1	0.99998	0.9983	0.9324	0.6655	0.30807	0.08353	0.01156	0.00062	6.5E-06	1.5E-09	2.5E-13	3.5E-17	2.6E-22
	7	1	1	1	0.99973	0.97672	0.81803	0.48778	0.17964	0.03523	0.00282	5E-05	2.6E-08	8.8E-12	2.6E-15	4.7E-20
	8	1	1	1	0.99996	0.99334	0.91608	0.66748	0.3238	0.08847	0.01054	0.00031	3.5E-07	2.5E-10	1.5E-13	7E-18
	9	1	1	1	1	0.99842	0.96745	0.81391	0.5	0.18609	0.03255	0.00158	3.9E-06	5.9E-09	7.2E-12	8.5E-16
	10	1	1	1	1	0.99969	0.98946	0.91153	0.6762	0.33252	0.08392	0.00666	3.6E-05	1.1E-07	2.8E-10	8.4E-14
	11	1	1	1	1	0.99995	0.99718	0.96477	0.82036	0.51222	0.18197	0.02328	0.00027	1.8E-06	9E-09	6.9E-12
	12	1	1	1	1	0.99999	0.99938	0.98844	0.91647	0.69193	0.3345	0.0676	0.0017	2.3E-05	2.4E-07	4.5E-10
	13	1	1	1	1	1	0.99989	0.99693	0.96822	0.83708	0.52614	0.16306	0.00859	0.00024	5E-06	2.4E-08
	14	1	1	1	1	1	0.99999	0.99936	0.99039	0.93039	0.71778	0.32671	0.03519	0.00201	8.5E-05	1E-06
	15	1	1	1	1	1	1	0.9999	0.99779	0.97704	0.86683	0.54491	0.115	0.01324	0.00112	3.4E-05
	16	1	1	1	1	1	1	0.99999	0.99964	0.99454	0.95378	0.76311	0.29456	0.06655	0.01122	0.00086
	17	1	1	1	1	1	1	1	0.99996	0.99917	0.98958	0.91713	0.57974	0.24529	0.08071	0.01527
	18	1	1	1	1	1	1	1	1	0.99994	0.99886	0.98559	0.86491	0.62265	0.38186	0.17383
	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	0	0.81791	0.60269	0.35849	0.12158	0.01153	0.0008	3.7E-05	9.5E-07	1.1E-08	3.5E-11	1E-14	1E-20	9.5E-27	9.1E-33	1E-40
	1	0.98314	0.91176	0.73584	0.39175	0.06918	0.00764	0.00052	2E-05	3.4E-07	1.7E-09	8.5E-13	1.8E-18	3.6E-24	7.1E-30	2E-37
	2	0.999	0.98704	0.92452	0.67693	0.20608	0.03548	0.00361	0.0002	5E-06	3.8E-08	3.3E-11	1.6E-16	6.6E-22	2.6E-27	1.9E-34
	3	0.99996	0.99863	0.9841	0.86705	0.41145	0.10709	0.01596	0.00129	4.7E-05	5.4E-07	8E-10	8.5E-15	7.5E-20	6.2E-25	1.1E-31
	4	1	0.99989	0.99743	0.95683	0.62965	0.23751	0.05095	0.00591	0.00032	5.6E-06	1.4E-08	3.3E-13	6.1E-18	1E-22	4.7E-29
	5	1	0.99999	0.99967	0.98875	0.80421	0.41637	0.1256	0.02069	0.00161	4.3E-05	1.8E-07	9.5E-12	3.7E-16	1.3E-20	1.5E-26
	6	1	1	0.99997	0.99761	0.91331	0.60801	0.25001	0.05766	0.00647	0.00026	1.8E-06	2.2E-10	1.8E-14	1.3E-18	3.7E-24
	7	1	1	1	0.99958	0.96786	0.77227	0.41589	0.13159	0.02103	0.00128	1.5E-05	3.9E-09	6.8E-13	9.8E-17	7.3E-22
	8	1	1	1	0.99994	0.99002	0.88667	0.5956	0.25172	0.05653	0.00514	0.0001	5.8E-08	2.1E-11	6.2E-15	1.2E-19
	9	1	1	1	0.99999	0.99741	0.95204	0.75534	0.4119	0.12752	0.01714	0.00056	7.1E-07	5.4E-10	3.3E-13	1.5E-17
	10	1	1	1	1	0.99944	0.98286	0.87248	0.5881	0.24466	0.04796	0.00259	7.2E-06	1.1E-08	1.4E-11	1.7E-15
	11	1	1	1	1	0.9999	0.99486	0.94347	0.74828	0.4044	0.11333	0.00998	6E-05	2E-07	5E-10	1.5E-13
	12	1	1	1	1	0.99998	0.99872	0.97897	0.86841	0.58411	0.22773	0.03214	0.00042	2.9E-06	1.5E-08	1.1E-11
	13	1	1	1	1	1	0.99974	0.99353	0.94234	0.74999	0.39199	0.08669	0.00239	3.4E-05	3.6E-07	6.9E-10
	14	1	1	1	1	1	0.99996	0.99839	0.97931	0.8744	0.58363	0.19579	0.01125	0.00033	7E-06	3.4E-08
	15	1	1	1	1	1	0.99999	0.99968	0.99409	0.94905	0.76249	0.37035	0.04317	0.00257	0.00011	1.4E-06
	16	1	1	1	1	1	1	0.99995	0.99871	0.98404	0.89291	0.58855	0.13295	0.0159	0.00137	4.3E-05
	17	1	1	1	1	1	1	0.99999	0.9998	0.99639	0.96452	0.79392	0.32307	0.07548	0.01296	0.001
	18	1	1	1	1	1	1	1	0.99998	0.99948	0.99236	0.93082	0.60825	0.26416	0.08824	0.01686
	19	1	1	1	1	1	1	1	1	0.99996	0.9992	0.98847	0.87842	0.64151	0.39731	0.18209
	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	0	0.80973	0.58762	0.34056	0.10942	0.00922	0.00056	2.2E-05	4.8E-07	4.4E-09	1E-11	2.1E-15	1E-21	4.8E-28	2.3E-34	1E-42
	1	0.98149	0.90403	0.71697	0.36473	0.05765	0.00559	0.00033	1E-05	1.4E-07	5.2E-10	1.8E-13	1.9E-19	1.9E-25	1.9E-31	2.1E-39
	2	0.99884	0.98516	0.91508	0.64841	0.1787	0.02713	0.00238	0.00011	2.2E-06	1.2E-08	7.2E-12	1.7E-17	3.6E-23	7.3E-29	2.1E-36
	3	0.99995	0.99834	0.98112	0.84803	0.37038	0.08561	0.01102	0.00074	2.2E-05	1.9E-07	1.9E-10	9.9E-16	4.4E-21	1.8E-26	1.3E-33
	4	1	0.99986	0.99676	0.94785	0.58601	0.19838	0.03696	0.0036	0.00016	2E-06	3.4E-09	4E-14	3.8E-19	3.2E-24	5.8E-31
	5	1	0.99999	0.99956	0.98555	0.7693	0.36271	0.09574	0.0133	0.00083	1.7E-05	4.7E-08	1.2E-12	2.4E-17	4.2E-22	1.9E-28
	6	1	1	0.99995	0.99673	0.89149	0.55052	0.20025	0.03918	0.00355	0.00011	5.1E-07	3E-11	1.2E-15	4.4E-20	5.1E-26
	7	1	1	1	0.99939	0.95695	0.72299	0.34954	0.09462	0.01229	0.00057	4.5E-06	5.9E-10	5.1E-14	3.7E-18	1.1E-23
	8	1	1	1	0.9999	0.98559	0.85235	0.52372	0.19166	0.03523	0.00244	3.2E-05	9.3E-09	1.7E-12	2.5E-16	1.9E-21
	9	1	1	1	0.99999	0.99593	0.93243	0.69144	0.33181	0.08492	0.00874	0.00019	1.2E-07	4.7E-11	1.4E-14	2.7E-19
	10	1	1	1	1	0.99903	0.97361	0.82562	0.5	0.17438	0.02639	0.00097	1.4E-06	1.1E-09	6.7E-13	3.2E-17
	11	1	1	1	1	0.99981	0.99126	0.91508	0.66819	0.30856	0.06757	0.00407	1.2E-05	2.1E-08	2.6E-11	3.2E-15
	12	1	1	1	1	0.99997	0.99756	0.96477	0.80834	0.47628	0.14765	0.01441	9.5E-05	3.3E-07	8.5E-10	2.6E-13
	13	1	1	1	1	1	0.99943	0.98771	0.90538	0.65046	0.27701	0.04305	0.00061	4.4E-06	2.3E-08	1.8E-11
	14	1	1	1	1	1	0.99989	0.99645	0.96082	0.79975	0.44948	0.10851	0.00327	4.9E-05	5.2E-07	1E-09
	15	1	1	1	1	1	0.99998	0.99917	0.9867	0.90426	0.63729	0.2307	0.01445	0.00044	9.6E-06	4.8E-08
	16	1	1	1	1	1	1	0.99984	0.9964	0.96304	0.80162	0.41399	0.05215	0.00324	0.00014	1.8E-06
	17	1	1	1	1	1	1	0.99998	0.99926	0.98898	0.91439	0.62962	0.15197	0.01888	0.00166	5.2E-05
	18	1	1	1	1	1	1	1	0.99989	0.99762	0.97287	0.8213	0.35159	0.08492	0.01484	0.00116
	19	1	1	1	1	1	1	1	0.99999	0.99967	0.99441	0.94235	0.63527	0.28303	0.09597	0.01851
	20	1	1	1	1	1	1	1	1	0.99998	0.99944	0.99078	0.89058	0.65944	0.41238	0.19027
	21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

$$P(X \leq x) = \sum_{i=0}^n \binom{n}{i} p^i (1-p)^{n-i}$$

n	x	p														
		0.01	0.025	0.05	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.95	0.975	0.99
22	0	0.80163	0.57293	0.32353	0.09848	0.00738	0.00039	1.3E-05	2.4E-07	1.8E-09	3.1E-12	4.2E-16	1E-22	2.4E-29	5.7E-36	1E-44
	1	0.97977	0.89612	0.69815	0.3392	0.04796	0.00408	0.00021	5.5E-06	6E-08	1.6E-10	3.7E-14	2E-20	1E-26	4.9E-33	2.2E-41
	2	0.99866	0.98313	0.90518	0.62004	0.15449	0.02067	0.00156	6.1E-05	9.7E-07	4.1E-09	1.6E-12	1.9E-18	2E-24	2E-30	2.3E-38
	3	0.99994	0.99801	0.97782	0.82807	0.33204	0.06806	0.00756	0.00043	1E-05	6.6E-08	4.3E-11	1.1E-16	2.5E-22	5.2E-28	1.5E-35
	4	1	0.99982	0.99598	0.93787	0.54288	0.16455	0.02658	0.00217	7.5E-05	7.5E-07	8.3E-10	4.9E-15	2.3E-20	9.7E-26	7E-33
	5	1	0.99999	0.99942	0.98178	0.73264	0.31341	0.07223	0.00845	0.00043	6.5E-06	1.2E-08	1.6E-13	1.6E-18	1.4E-23	2.5E-30
	6	1	1	0.99993	0.99561	0.86705	0.49418	0.15844	0.02624	0.00192	4.4E-05	1.4E-07	4.1E-12	8.5E-17	1.5E-21	7E-28
	7	1	1	0.99999	0.99912	0.94386	0.67125	0.28982	0.0669	0.00705	0.00025	1.3E-06	8.6E-11	3.7E-15	1.3E-19	1.6E-25
	8	1	1	1	0.99985	0.97986	0.81354	0.45405	0.14314	0.02147	0.00113	1E-05	1.5E-09	1.3E-13	9.9E-18	3E-23
	9	1	1	1	0.99998	0.99386	0.9084	0.62435	0.26173	0.05511	0.00433	6.5E-05	2.1E-08	4E-12	6E-16	4.6E-21
	10	1	1	1	1	0.99841	0.96126	0.77195	0.41591	0.12071	0.01404	0.00035	2.5E-07	9.8E-11	3.1E-14	5.9E-19
	11	1	1	1	1	0.99965	0.98596	0.87929	0.58409	0.22805	0.03874	0.00159	2.5E-06	2.1E-09	1.3E-12	6.4E-17
	12	1	1	1	1	0.99994	0.99567	0.94489	0.73827	0.37565	0.0916	0.00614	2.1E-05	3.6E-08	4.7E-11	5.8E-15
	13	1	1	1	1	0.99999	0.99887	0.97853	0.85686	0.54595	0.18646	0.02014	0.00015	5.3E-07	1.4E-09	4.4E-13
	14	1	1	1	1	1	0.99975	0.99295	0.9331	0.71018	0.32875	0.05614	0.00088	6.6E-06	3.6E-08	2.8E-11
	15	1	1	1	1	1	0.99996	0.99808	0.97376	0.84156	0.50582	0.13295	0.00439	6.8E-05	7.5E-07	1.5E-09
	16	1	1	1	1	1	0.99999	0.99957	0.99155	0.92777	0.68659	0.26736	0.01822	0.00058	1.3E-05	6.5E-08
	17	1	1	1	1	1	1	0.99992	0.99783	0.97342	0.83545	0.45712	0.06213	0.00402	0.00018	2.3E-06
	18	1	1	1	1	1	1	0.99999	0.99957	0.99244	0.93194	0.66796	0.17193	0.02218	0.00199	6.3E-05
	19	1	1	1	1	1	1	0.99994	0.99844	0.97933	0.84551	0.37996	0.09482	0.01687	0.00134	
	20	1	1	1	1	1	1	0.99999	0.99979	0.99592	0.95204	0.6608	0.30185	0.10388	0.02023	
	21	1	1	1	1	1	1	1	0.99999	0.99961	0.99262	0.90152	0.67647	0.42707	0.19837	
	22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	0	0.79361	0.55861	0.30736	0.08863	0.0059	0.00027	7.9E-06	1.2E-07	7E-10	9.4E-13	8.4E-17	1E-23	1.2E-30	1.4E-37	1E-46
	1	0.97799	0.88804	0.67942	0.31513	0.03984	0.00297	0.00013	2.9E-06	2.5E-08	5.1E-11	7.8E-15	2.1E-21	5.2E-28	1.3E-34	2.3E-43
	2	0.99848	0.98096	0.89483	0.59196	0.13319	0.01569	0.00102	3.3E-05	4.3E-07	1.3E-09	3.5E-13	2.1E-19	1.1E-25	5.5E-32	2.5E-40
	3	0.99992	0.99764	0.97419	0.80727	0.29653	0.05384	0.00516	0.00024	4.6E-06	2.3E-08	9.9E-12	1.3E-17	1.5E-23	1.5E-29	1.7E-37
	4	1	0.99977	0.99507	0.92689	0.50071	0.1356	0.01897	0.0013	3.6E-05	2.7E-07	2E-10	5.9E-16	1.4E-21	2.9E-27	8.5E-35
	5	1	0.99998	0.99925	0.97739	0.69469	0.26875	0.05397	0.00531	0.00022	2.5E-06	3.1E-09	2E-14	1E-19	4.3E-25	3.2E-32
	6	1	1	0.99991	0.99423	0.84017	0.43995	0.12396	0.01734	0.00103	1.8E-05	3.8E-08	5.6E-13	5.8E-18	5.1E-23	9.5E-30
	7	1	1	0.99999	0.99877	0.92849	0.61813	0.23727	0.04657	0.00397	0.0001	3.7E-07	1.2E-11	2.7E-16	4.8E-21	2.3E-27
	8	1	1	1	0.99978	0.97266	0.77086	0.38836	0.10502	0.01282	0.00051	3.1E-06	2.2E-10	1E-14	3.8E-19	4.5E-25
	9	1	1	1	0.99997	0.99106	0.87995	0.55623	0.20244	0.03492	0.00209	2.1E-05	3.4E-09	3.2E-13	2.5E-17	7.5E-23
	10	1	1	1	1	0.9975	0.9454	0.71291	0.33882	0.08135	0.00724	0.00012	4.3E-08	8.7E-12	1.3E-15	1E-20
	11	1	1	1	1	0.9994	0.97855	0.83636	0.5	0.16364	0.02145	0.0006	4.7E-07	2E-10	6.2E-14	1.2E-18
	12	1	1	1	1	0.99988	0.99276	0.91865	0.66118	0.28709	0.0546	0.0025	4.3E-06	3.8E-09	2.4E-12	1.2E-16
	13	1	1	1	1	0.99998	0.99791	0.96508	0.79756	0.44377	0.12005	0.00894	3.3E-05	6.1E-08	8.1E-11	1E-14
	14	1	1	1	1	1	0.99949	0.98718	0.89498	0.61164	0.22914	0.02734	0.00022	8.4E-07	2.3E-09	7.2E-13
	15	1	1	1	1	1	0.9999	0.99603	0.95343	0.76273	0.38187	0.07151	0.00123	9.7E-06	5.3E-08	4.3E-11
	16	1	1	1	1	1	0.99998	0.99897	0.98266	0.87604	0.56005	0.15983	0.00577	9.4E-05	1.1E-06	2.1E-09
	17	1	1	1	1	1	1	0.99978	0.99469	0.94603	0.73125	0.30531	0.02261	0.00075	1.7E-05	8.7E-08
	18	1	1	1	1	1	1	0.99996	0.9987	0.98103	0.8644	0.49929	0.07311	0.00493	0.00023	2.9E-06
	19	1	1	1	1	1	1	0.99976	0.99484	0.94616	0.70347	0.19273	0.02581	0.00236	7.6E-05	
	20	1	1	1	1	1	1	0.99997	0.99898	0.98431	0.86681	0.40804	0.10517	0.01904	0.00152	
	21	1	1	1	1	1	1	1	0.99987	0.99703	0.96016	0.68487	0.32058	0.11196	0.02201	
	22	1	1	1	1	1	1	1	0.99999	0.99973	0.9941	0.91137	0.69264	0.44139	0.20639	
	23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

$$P(X \leq x) = \sum_{i=0}^n \binom{n}{i} p^x (1-p)^{n-x}$$

n	x	p														
		0.01	0.025	0.05	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.95	0.975	0.99
24	0	0.78568	0.54464	0.29199	0.07977	0.00472	0.00019	4.7E-06	6E-08	2.8E-10	2.8E-13	1.7E-17	1E-24	6E-32	3.6E-39	1E-48
	1	0.97615	0.87981	0.66082	0.29248	0.03306	0.00216	8.1E-05	1.5E-06	1E-08	1.6E-11	1.6E-15	2.2E-22	2.7E-29	3.3E-36	2.4E-45
	2	0.99827	0.97864	0.88406	0.56427	0.11452	0.01187	0.00066	1.8E-05	1.9E-07	4.4E-10	7.6E-14	2.3E-20	6E-27	1.5E-33	2.7E-42
	3	0.99991	0.99722	0.97022	0.78574	0.26386	0.0424	0.0035	0.00014	2.1E-06	7.7E-09	2.2E-12	1.5E-18	8.3E-25	4.3E-31	2E-39
	4	1	0.99972	0.99403	0.91493	0.45988	0.11108	0.01345	0.00077	1.7E-05	9.7E-08	4.8E-11	7.1E-17	8.3E-23	8.8E-29	1E-36
	5	1	0.99998	0.99904	0.97234	0.65589	0.22881	0.03997	0.00331	0.00011	9.3E-07	7.8E-10	2.6E-15	6.4E-21	1.4E-26	4.1E-34
	6	1	1	0.99987	0.99254	0.81107	0.38859	0.09596	0.01133	0.00054	7.1E-06	1E-08	7.4E-14	3.8E-19	1.7E-24	1.3E-31
	7	1	1	0.99999	0.99832	0.91083	0.56467	0.19195	0.03196	0.0022	4.4E-05	1.1E-07	1.7E-12	1.7E-17	1.7E-22	3.2E-29
	8	1	1	1	0.99968	0.96383	0.72504	0.32792	0.07579	0.00751	0.00023	9.1E-07	3.3E-11	7.6E-16	1.4E-20	6.8E-27
	9	1	1	1	0.99995	0.98738	0.84722	0.48908	0.15373	0.02166	0.00098	6.7E-06	5.4E-10	2.6E-14	9.8E-19	1.2E-24
	10	1	1	1	0.99999	0.99621	0.92576	0.65024	0.27063	0.05349	0.00363	4.1E-05	7.4E-09	7.4E-13	5.8E-17	1.8E-22
	11	1	1	1	1	0.99902	0.96861	0.78698	0.41941	0.11427	0.0115	0.00022	8.6E-08	1.8E-11	2.9E-15	2.3E-20
	12	1	1	1	1	0.99978	0.9885	0.88573	0.58059	0.21302	0.03139	0.00098	8.5E-07	3.7E-10	1.2E-13	2.4E-18
	13	1	1	1	1	0.99996	0.99637	0.94651	0.72937	0.34976	0.07424	0.00379	7.2E-06	6.6E-09	4.4E-12	2.2E-16
	14	1	1	1	1	0.99999	0.99902	0.97834	0.84627	0.51092	0.15278	0.01262	5.2E-05	1E-07	1.4E-10	1.7E-14
	15	1	1	1	1	1	0.99977	0.99249	0.92421	0.67208	0.27496	0.03617	0.00032	1.3E-06	3.5E-09	1.1E-12
	16	1	1	1	1	1	0.99996	0.9978	0.96804	0.80805	0.43533	0.08917	0.00168	1.4E-05	7.8E-08	6.4E-11
	17	1	1	1	1	1	0.99999	0.99946	0.98867	0.90404	0.61141	0.18893	0.00746	0.00013	1.5E-06	3E-09
	18	1	1	1	1	1	1	0.99989	0.99669	0.96003	0.77119	0.34411	0.02766	0.00096	2.2E-05	1.2E-07
	19	1	1	1	1	1	1	0.99998	0.99923	0.98655	0.88892	0.54012	0.08507	0.00597	0.00028	3.6E-06
	20	1	1	1	1	1	1	0.99986	0.9965	0.9576	0.73614	0.21426	0.02978	0.00278	9.1E-05	
	21	1	1	1	1	1	1	0.99998	0.99934	0.98813	0.88548	0.43573	0.11594	0.02136	0.00173	
	22	1	1	1	1	1	1	1	0.99992	0.99784	0.96694	0.70752	0.33918	0.12019	0.02385	
	23	1	1	1	1	1	1	1	0.99981	0.99528	0.92023	0.70801	0.45536	0.21432		
	24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	0	0.77782	0.53103	0.27739	0.07179	0.00378	0.00013	2.8E-06	3E-08	1.1E-10	8.5E-14	3.4E-18	1E-25	3E-33	8.9E-41	1E-50
	1	0.97424	0.87143	0.64238	0.27121	0.02739	0.00157	5E-05	7.7E-07	4.3E-09	5E-12	3.4E-16	2.3E-23	1.4E-30	8.7E-38	2.5E-47
	2	0.99805	0.97617	0.87289	0.53709	0.09823	0.00896	0.00043	9.7E-06	8E-08	1.4E-10	1.6E-14	2.5E-21	3.2E-28	4.1E-35	2.9E-44
	3	0.99989	0.99675	0.96591	0.76359	0.23399	0.03324	0.00237	7.8E-05	9.5E-07	2.6E-09	5.1E-13	1.7E-19	4.7E-26	1.2E-32	2.2E-41
	4	1	0.99966	0.99284	0.90201	0.42067	0.09047	0.00947	0.00046	8.2E-06	3.4E-08	1.1E-11	8.5E-18	5E-24	2.6E-30	1.2E-38
	5	1	0.99997	0.99879	0.9666	0.61669	0.19349	0.02936	0.00204	5.4E-05	3.5E-07	1.9E-10	3.2E-16	4E-22	4.3E-28	5.1E-36
	6	1	1	0.99983	0.99052	0.78004	0.34065	0.07357	0.00732	0.00028	2.8E-06	2.6E-09	9.7E-15	2.5E-20	5.6E-26	1.7E-33
	7	1	1	0.99998	0.99774	0.89088	0.51185	0.15355	0.02164	0.00121	1.8E-05	2.9E-08	2.4E-13	1.3E-18	5.9E-24	4.5E-31
	8	1	1	1	0.99954	0.95323	0.67693	0.27353	0.05388	0.00433	9.9E-05	2.7E-07	4.9E-12	5.6E-17	5.2E-22	1E-28
	9	1	1	1	0.99992	0.98267	0.81056	0.42462	0.11476	0.01317	0.00045	2.1E-06	8.4E-11	2E-15	3.8E-20	1.9E-26
	10	1	1	1	0.99999	0.99445	0.9022	0.58577	0.21218	0.03439	0.00178	1.4E-05	1.2E-09	6.2E-14	2.4E-18	3E-24
	11	1	1	1	1	0.99846	0.95575	0.73228	0.34502	0.0778	0.00599	7.6E-05	1.5E-08	1.6E-12	1.3E-16	4E-22
	12	1	1	1	1	0.99963	0.98253	0.84623	0.5	0.15377	0.01747	0.00037	1.6E-07	3.6E-11	5.8E-15	4.6E-20
	13	1	1	1	1	0.99992	0.99401	0.9222	0.65498	0.26772	0.04425	0.00154	1.5E-06	6.9E-10	2.3E-13	4.6E-18
	14	1	1	1	1	0.99999	0.99822	0.96561	0.78782	0.41423	0.0978	0.00555	1.2E-05	1.1E-08	7.7E-12	3.9E-16
	15	1	1	1	1	1	0.99955	0.98683	0.88524	0.57538	0.18944	0.01733	7.9E-05	1.6E-07	2.2E-10	2.9E-14
	16	1	1	1	1	1	0.9999	0.99567	0.94612	0.72647	0.32307	0.04677	0.00046	1.9E-06	5.4E-09	1.8E-12
	17	1	1	1	1	1	0.99998	0.99879	0.97836	0.84645	0.48815	0.10912	0.00226	2E-05	1.1E-07	9.3E-11
	18	1	1	1	1	1	1	0.99972	0.99268	0.92643	0.65935	0.21996	0.00948	0.00017	2E-06	4.1E-09
	19	1	1	1	1	1	1	0.99995	0.99796	0.97064	0.80651	0.38331	0.0334	0.00121	2.9E-05	1.5E-07
	20	1	1	1	1	1	1	0.99999	0.99954	0.99053	0.90953	0.57933	0.09799	0.00716	0.00034	4.5E-06
	21	1	1	1	1	1	1	1	0.99992	0.99763	0.96676	0.76601	0.23641	0.03409	0.00325	0.00011
	22	1	1	1	1	1	1	1	0.99999	0.99957	0.99104	0.90177	0.46291	0.12711	0.02383	0.00195
	23	1	1	1	1	1	1	1	1	0.99995	0.99843	0.97261	0.72879	0.35762	0.12857	0.02576
	24	1	1	1	1	1	1	1	1	1	0.99987	0.99622	0.92821	0.72261	0.46897	0.22218
	25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

$$P(X \leq x) = \sum_{i=0}^n \binom{n}{i} p^i (1-p)^{n-i}$$

n	x	p														
		0.01	0.025	0.05	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.95	0.975	0.99
26	0	0.77004	0.51775	0.26352	0.06461	0.00302	9.4E-05	1.7E-06	1.5E-08	4.5E-11	2.5E-14	6.7E-19	1E-26	1.5E-34	2.2E-42	1E-52
	1	0.97228	0.86292	0.62413	0.25126	0.02267	0.00114	3.1E-05	4E-07	1.8E-09	1.6E-12	7E-17	2.3E-24	7.4E-32	2.3E-39	2.6E-49
	2	0.99781	0.97355	0.86137	0.51051	0.08406	0.00674	0.00028	5.2E-06	3.5E-08	4.7E-11	3.6E-15	2.7E-22	1.8E-29	1.1E-36	3.2E-46
	3	0.99987	0.99624	0.96126	0.74094	0.20684	0.02596	0.00159	4.4E-05	4.3E-07	8.9E-10	1.2E-13	1.9E-20	2.7E-27	3.4E-34	2.5E-43
	4	0.99999	0.99959	0.99149	0.88816	0.38334	0.0733	0.00663	0.00027	3.8E-06	1.2E-08	2.7E-12	1E-18	2.9E-25	7.7E-32	1.4E-40
	5	1	0.99996	0.99849	0.96014	0.57749	0.16258	0.02141	0.00125	2.6E-05	1.3E-07	4.8E-11	4E-17	2.5E-23	1.3E-29	6.3E-38
	6	1	1	0.99978	0.98813	0.74737	0.2965	0.05588	0.00468	0.00014	1.1E-06	6.8E-10	1.3E-15	1.6E-21	1.8E-27	2.2E-35
	7	1	1	0.99997	0.99702	0.86871	0.46049	0.12156	0.01448	0.00065	7.4E-06	7.9E-09	3.3E-14	8.9E-20	2E-25	6.2E-33
	8	1	1	1	0.99936	0.94076	0.6274	0.22554	0.03776	0.00245	4.2E-05	7.7E-08	7.1E-13	4E-18	1.9E-23	1.4E-30
	9	1	1	1	0.99988	0.97678	0.77047	0.36418	0.08432	0.00786	0.00021	6.3E-07	1.3E-11	1.5E-16	1.5E-21	2.9E-28
	10	1	1	1	0.99998	0.99209	0.87471	0.52131	0.16347	0.02166	0.00085	4.4E-06	2E-10	5E-15	9.7E-20	4.8E-26
	11	1	1	1	1	0.99766	0.93969	0.67368	0.2786	0.05176	0.00304	2.6E-05	2.6E-09	1.4E-13	5.5E-18	7E-24
	12	1	1	1	1	0.9994	0.9745	0.80065	0.42251	0.10819	0.00944	0.00013	3E-08	3.3E-12	2.7E-16	8.6E-22
	13	1	1	1	1	0.99987	0.99056	0.89181	0.57749	0.19935	0.0255	0.0006	2.9E-07	6.8E-11	1.1E-14	9.2E-20
	14	1	1	1	1	0.99997	0.99696	0.94824	0.7214	0.32632	0.06031	0.00234	2.5E-06	1.2E-09	4.2E-13	8.5E-18
	15	1	1	1	1	1	0.99915	0.97834	0.83653	0.47869	0.12529	0.00791	1.8E-05	1.9E-08	1.3E-11	6.7E-16
	16	1	1	1	1	1	0.99979	0.99214	0.91568	0.63582	0.22953	0.02322	0.00012	2.5E-07	3.5E-10	4.6E-14
	17	1	1	1	1	1	0.99996	0.99755	0.96224	0.77446	0.3726	0.05924	0.00064	2.8E-06	8.1E-09	2.7E-12
	18	1	1	1	1	1	0.99999	0.99935	0.98552	0.87844	0.53951	0.13129	0.00298	2.7E-05	1.6E-07	1.3E-10
	19	1	1	1	1	1	1	0.99986	0.99532	0.94412	0.7035	0.25263	0.01187	0.00022	2.6E-06	5.6E-09
	20	1	1	1	1	1	1	0.99997	0.99875	0.97859	0.83742	0.42251	0.03986	0.00151	3.7E-05	1.9E-07
	21	1	1	1	1	1	1	0.99973	0.99337	0.9267	0.61666	0.11184	0.00851	0.00041	5.5E-06	
	22	1	1	1	1	1	1	0.99996	0.99841	0.97404	0.79316	0.25906	0.03874	0.00376	0.00013	
	23	1	1	1	1	1	1	0.99999	0.99972	0.99326	0.91594	0.48949	0.13863	0.02645	0.00219	
	24	1	1	1	1	1	1	1	0.99997	0.99886	0.97733	0.74874	0.37587	0.13708	0.02772	
	25	1	1	1	1	1	1	1	1	1	0.99991	0.99698	0.93539	0.73648	0.48225	0.22996
	26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	0	0.76234	0.50481	0.25034	0.05815	0.00242	6.6E-05	1E-06	7.5E-09	1.8E-11	7.6E-15	1.3E-19	1E-27	7.5E-36	5.6E-44	1E-54
	1	0.97025	0.85429	0.6061	0.2326	0.01874	0.00083	1.9E-05	2.1E-07	7.5E-10	4.9E-13	1.5E-17	2.4E-25	3.8E-33	5.9E-41	2.7E-51
	2	0.99756	0.97078	0.84951	0.48458	0.07178	0.00506	0.00018	2.8E-06	1.5E-08	1.5E-11	7.7E-16	2.9E-23	9.5E-31	3E-38	3.4E-48
	3	0.99985	0.99567	0.95626	0.7179	0.18228	0.02019	0.00107	2.5E-05	1.9E-07	3E-10	2.6E-14	2.2E-21	1.5E-28	9.7E-36	2.8E-45
	4	0.99999	0.9995	0.98998	0.87344	0.34804	0.0591	0.00461	0.00016	1.8E-06	4.3E-09	6.3E-13	1.2E-19	1.7E-26	2.3E-33	1.7E-42
	5	1	0.99995	0.99814	0.95294	0.53866	0.1358	0.0155	0.00076	1.3E-05	4.7E-08	1.2E-11	4.9E-18	1.5E-24	4.1E-31	7.7E-40
	6	1	1	0.99971	0.98533	0.71339	0.25633	0.04209	0.00296	7.4E-05	4.1E-07	1.7E-10	1.6E-16	1.1E-22	5.8E-29	2.8E-37
	7	1	1	0.99996	0.99613	0.84444	0.41129	0.09529	0.00958	0.00035	3E-06	2.1E-09	4.4E-15	6E-21	6.8E-27	8.3E-35
	8	1	1	1	0.99913	0.92635	0.57733	0.18395	0.02612	0.00137	1.8E-05	2.2E-08	1E-13	2.9E-19	6.7E-25	2.1E-32
	9	1	1	1	0.99983	0.96957	0.72755	0.30873	0.06104	0.00462	9.1E-05	1.9E-07	1.9E-12	1.2E-17	5.5E-23	4.3E-30
	10	1	1	1	0.99997	0.98903	0.84344	0.45846	0.12389	0.01338	0.0004	1.4E-06	3.1E-11	4E-16	3.9E-21	7.7E-28
	11	1	1	1	1	0.99654	0.92019	0.61273	0.22103	0.0337	0.00151	8.7E-06	4.4E-10	1.2E-14	2.3E-19	1.2E-25
	12	1	1	1	1	0.99905	0.96405	0.74986	0.35055	0.07433	0.00496	4.8E-05	5.4E-09	3E-13	1.2E-17	1.6E-23
	13	1	1	1	1	0.99977	0.98574	0.85535	0.5	0.14465	0.01426	0.00023	5.6E-08	6.6E-12	5.5E-16	1.8E-21
	14	1	1	1	1	0.99995	0.99504	0.92567	0.64945	0.25014	0.03595	0.00095	5.2E-07	1.3E-10	2.2E-14	1.8E-19
	15	1	1	1	1	0.99999	0.99849	0.9663	0.77897	0.38727	0.07981	0.00346	4.1E-06	2.1E-09	7.3E-13	1.5E-17
	16	1	1	1	1	1	0.9996	0.98662	0.87611	0.54154	0.15656	0.01097	2.8E-05	3E-08	2.1E-11	1.1E-15
	17	1	1	1	1	1	0.99991	0.99538	0.93896	0.69127	0.27245	0.03043	0.00017	3.7E-07	5.4E-10	7.2E-14
	18	1	1	1	1	1	0.99998	0.99863	0.97388	0.81605	0.42267	0.07365	0.00087	4E-06	1.2E-08	4E-12
	19	1	1	1	1	1	1	0.99965	0.99042	0.90471	0.58871	0.15556	0.00387	3.7E-05	2.2E-07	1.9E-10
	20	1	1	1	1	1	1	0.99993	0.99704	0.95791	0.74367	0.28661	0.01467	0.00029	3.5E-06	7.5E-09
	21	1	1	1	1	1	1	0.99999	0.99924	0.9845	0.8642	0.46134	0.04706	0.00186	4.6E-05	2.5E-07
	22	1	1	1	1	1	1	1	0.99984	0.99539	0.9409	0.65196	0.12656	0.01002	0.0005	6.7E-06
	23	1	1	1	1	1	1	1	0.99998	0.99893	0.97981	0.81772	0.2821	0.04374	0.00433	0.00015
	24	1	1	1	1	1	1	1	1	0.99982	0.99494	0.92822	0.51542	0.15049	0.02922	0.00244
	25	1	1	1	1	1	1	1	1	0.99998	0.99917	0.98126	0.7674	0.3939	0.14571	0.02975
	26	1	1	1	1	1	1	1	1	1	0.99993	0.99758	0.94185	0.74966	0.49519	0.23766
	27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

$$P(X \leq x) = \sum_{i=0}^n \binom{n}{i} p^x (1-p)^{n-x}$$

n	x	p														
		0.01	0.025	0.05	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.95	0.975	0.99
28	0	0.75472	0.49219	0.23783	0.05233	0.00193	4.6E-05	6.1E-07	3.7E-09	7.2E-12	2.3E-15	2.7E-20	1E-28	3.7E-37	1.4E-45	1E-56
	1	0.96818	0.84555	0.58831	0.21515	0.01547	0.0006	1.2E-05	1.1E-07	3.1E-10	1.5E-13	3E-18	2.5E-26	2E-34	1.5E-42	2.8E-53
	2	0.99728	0.96787	0.83734	0.45938	0.06117	0.00379	0.00012	1.5E-06	6.4E-09	4.9E-12	1.7E-16	3.1E-24	5.1E-32	8E-40	3.7E-50
	3	0.99983	0.99505	0.95093	0.69457	0.16018	0.01565	0.00071	1.4E-05	8.6E-08	1E-10	5.8E-15	2.4E-22	8.4E-30	2.7E-37	3.2E-47
	4	0.99999	0.99941	0.98829	0.85789	0.31489	0.04743	0.00319	9E-05	8.3E-07	1.5E-09	1.5E-13	1.4E-20	1E-27	6.6E-35	2E-44
	5	1	0.99994	0.99773	0.94499	0.50053	0.11279	0.01114	0.00046	6.2E-06	1.7E-08	2.8E-12	5.9E-19	9.2E-26	1.2E-32	9.4E-42
	6	1	1	0.99964	0.98209	0.67844	0.22017	0.03145	0.00186	3.7E-05	1.6E-07	4.4E-11	2.1E-17	6.7E-24	1.9E-30	3.6E-39
	7	1	1	0.99995	0.99505	0.81823	0.3648	0.07401	0.00627	0.00018	1.2E-06	5.7E-10	5.9E-16	4E-22	2.3E-28	1.1E-36
	8	1	1	0.99999	0.99883	0.90997	0.52752	0.14848	0.01785	0.00076	7.4E-06	6E-09	1.4E-14	2E-20	2.3E-26	2.9E-34
	9	1	1	1	0.99976	0.96093	0.68249	0.25881	0.04358	0.00267	4E-05	5.5E-08	2.8E-13	8.5E-19	2E-24	6.3E-32
	10	1	1	1	0.99996	0.98514	0.80867	0.39857	0.09247	0.00812	0.00018	4.2E-07	4.9E-12	3.1E-17	1.5E-22	1.2E-29
	11	1	1	1	0.99999	0.99504	0.89717	0.55102	0.17246	0.02151	0.00073	2.8E-06	7.2E-11	9.6E-16	9.6E-21	1.9E-27
	12	1	1	1	1	0.99855	0.9509	0.69501	0.28579	0.04995	0.00254	1.7E-05	9.3E-10	2.6E-14	5.3E-19	2.7E-25
	13	1	1	1	1	0.99963	0.97924	0.81315	0.42528	0.10246	0.00775	8.4E-05	1E-08	6.1E-13	2.6E-17	3.3E-23
	14	1	1	1	1	0.99992	0.99225	0.89754	0.57472	0.18685	0.02076	0.00037	1E-07	1.3E-11	1.1E-15	3.5E-21
	15	1	1	1	1	0.99998	0.99746	0.95005	0.71421	0.30499	0.0491	0.00145	8.7E-07	2.2E-10	3.9E-14	3.3E-19
	16	1	1	1	1	1	0.99927	0.97849	0.82754	0.44898	0.10283	0.00496	6.5E-06	3.5E-09	1.2E-12	2.6E-17
	17	1	1	1	1	1	0.99982	0.99188	0.90753	0.60143	0.19133	0.01486	4.2E-05	4.7E-08	3.5E-11	1.8E-15
	18	1	1	1	1	1	0.99996	0.99733	0.95642	0.74119	0.31751	0.03907	0.00024	5.6E-07	8.3E-10	1.1E-13
	19	1	1	1	1	1	0.99999	0.99924	0.98215	0.85152	0.47248	0.09003	0.00117	5.6E-06	1.7E-08	5.8E-12
	20	1	1	1	1	1	1	0.99982	0.99373	0.92599	0.6352	0.18177	0.00495	4.9E-05	3E-07	2.6E-10
	21	1	1	1	1	1	1	0.99996	0.99814	0.96855	0.77983	0.32156	0.01791	0.00036	4.5E-06	9.8E-09
	22	1	1	1	1	1	1	0.99999	0.99954	0.98886	0.88721	0.49947	0.05501	0.00227	5.7E-05	3.1E-07
	23	1	1	1	1	1	1	1	0.99991	0.99681	0.95257	0.68511	0.14211	0.01171	0.00059	8.1E-06
	24	1	1	1	1	1	1	1	0.99999	0.99929	0.98435	0.83982	0.30543	0.04907	0.00495	0.00017
	25	1	1	1	1	1	1	1	1	0.99988	0.99621	0.93883	0.54062	0.16266	0.03213	0.00272
	26	1	1	1	1	1	1	1	1	0.99999	0.9994	0.98453	0.78485	0.41169	0.15445	0.03182
	27	1	1	1	1	1	1	1	1	1	0.99995	0.99807	0.94767	0.76217	0.50781	0.24528
	28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29	0	0.74717	0.47988	0.22594	0.0471	0.00155	3.2E-05	3.7E-07	1.9E-09	2.9E-12	6.9E-16	5.4E-21	1E-29	1.9E-38	3.5E-47	1E-58
	1	0.96604	0.83672	0.57078	0.19887	0.01277	0.00043	7.5E-06	5.6E-08	1.3E-10	4.7E-14	6.3E-19	2.6E-27	1E-35	3.9E-44	2.9E-55
	2	0.99699	0.96481	0.82488	0.43496	0.05203	0.00283	7.4E-05	8.1E-07	2.8E-09	1.6E-12	3.6E-17	3.3E-25	2.7E-33	2.1E-41	4E-52
	3	0.99981	0.99437	0.94525	0.67105	0.14038	0.0121	0.00047	7.6E-06	3.8E-08	3.3E-11	1.3E-15	2.7E-23	4.7E-31	7.5E-39	3.5E-49
	4	0.99999	0.9993	0.98642	0.84156	0.28395	0.03789	0.0022	5.2E-05	3.8E-07	5.2E-10	3.4E-14	1.6E-21	5.8E-29	1.9E-36	2.3E-46
	5	1	0.99993	0.99726	0.93628	0.4634	0.09318	0.00796	0.00027	3E-06	6.2E-09	6.9E-13	7.2E-20	5.5E-27	3.7E-34	1.1E-43
	6	1	0.99999	0.99954	0.97838	0.64286	0.18796	0.02333	0.00116	1.9E-05	5.9E-08	1.1E-11	2.6E-18	4.2E-25	5.8E-32	4.5E-41
	7	1	1	0.99994	0.99375	0.79027	0.32141	0.05699	0.00407	9.5E-05	4.6E-07	1.5E-10	7.7E-17	2.6E-23	7.5E-30	1.5E-38
	8	1	1	0.99999	0.99845	0.89162	0.47871	0.11869	0.01206	0.00041	3.1E-06	1.7E-09	1.9E-15	1.4E-21	8E-28	4E-36
	9	1	1	1	0.99967	0.95074	0.636	0.21468	0.03071	0.00152	1.7E-05	1.6E-08	4.1E-14	6.2E-20	7.3E-26	9.2E-34
	10	1	1	1	0.99994	0.9803	0.77082	0.34267	0.06802	0.00485	8.3E-05	1.3E-07	7.4E-13	2.3E-18	5.7E-24	1.8E-31
	11	1	1	1	0.99999	0.99306	0.87062	0.49004	0.13247	0.01348	0.00035	9.1E-07	1.2E-11	7.7E-17	3.9E-22	3.1E-29
	12	1	1	1	1	0.99785	0.93478	0.63742	0.22913	0.03288	0.00128	5.6E-06	1.6E-10	2.2E-15	2.3E-20	4.6E-27
	13	1	1	1	1	0.99941	0.97073	0.7659	0.35554	0.07095	0.00411	3E-05	1.9E-09	5.5E-14	1.2E-18	6E-25
	14	1	1	1	1	0.99986	0.98835	0.86379	0.5	0.13621	0.01165	0.00014	2E-08	1.2E-12	5.2E-17	6.8E-23
	15	1	1	1	1	0.99997	0.99589	0.92905	0.64446	0.2341	0.02927	0.00059	1.8E-07	2.3E-11	2E-15	6.7E-21
	16	1	1	1	1	0.99999	0.99872	0.96712	0.77087	0.36258	0.06522	0.00215	1.4E-06	3.9E-10	6.9E-14	5.8E-19
	17	1	1	1	1	1	0.99965	0.98652	0.86753	0.50996	0.12938	0.00694	1E-05	5.7E-09	2.1E-12	4.4E-17
	18	1	1	1	1	1	0.99992	0.99515	0.93198	0.65733	0.22918	0.0197	6.2E-05	7.3E-08	5.4E-11	2.9E-15
	19	1	1	1	1	1	0.99998	0.99848	0.96929	0.78532	0.364	0.04926	0.00033	8.1E-07	1.2E-09	1.7E-13
	20	1	1	1	1	1	1	0.99959	0.98794	0.88131	0.52129	0.10838	0.00155	7.8E-06	2.4E-08	8.4E-12
	21	1	1	1	1	1	1	0.9999	0.99593	0.94301	0.67859	0.20973	0.00625	6.5E-05	4.1E-07	3.6E-10
	22	1	1	1	1	1	1	0.99998	0.99884	0.97667	0.81204	0.35714	0.02162	0.00046	5.9E-06	1.3E-08
	23	1	1	1	1	1	1	0.99973	0.99204	0.90682	0.5366	0.06372	0.00274	7.1E-05	3.9E-07	
	24	1	1	1	1	1	1	0.99995	0.9978	0.96211	0.71605	0.15844	0.01358	0.0007	9.7E-06	
	25	1	1	1	1	1	1	0.99999	0.99953	0.9879	0.85962	0.32895	0.05475	0.00563	0.00019	
	26	1	1	1	1	1	1	1	0.99993	0.99717	0.94797	0.56504	0.17512	0.03519	0.00301	
	27	1	1	1	1	1	1	1	0.99999	0.99957	0.98723	0.80113	0.42922	0.16328	0.03396	
	28	1	1	1	1	1	1	1	1	1	0.99997	0.99845	0.9529	0.77406	0.52012	0.25283
	29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1