

Quantile $F_{\alpha;u,v}$ défini par $P(Y > F_{\alpha;u,v}) = \alpha$ avec $Y \sim F_{u,v}$

$\alpha = 0.25$

	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	∞
1	5.828427	7.500000	8.199862	8.580944	8.819793	8.983256	9.102067	9.192379	9.263909	9.320149	9.406400	9.493440	9.581355	9.625448	9.666983	9.714400	9.759153	9.804089	9.849200
2	5.721429	3.000000	3.153375	3.232051	3.279894	3.312056	3.335159	3.352558	3.366132	3.377018	3.393932	3.409819	3.426299	3.434559	3.442833	3.451119	3.459419	3.467733	3.476059
3	5.023863	2.279763	2.355551	2.391009	2.409496	2.421785	2.430228	2.436366	2.441022	2.444669	2.450008	2.455184	2.460192	2.462631	2.465027	2.467378	2.469685	2.471945	2.474160
4	4.807405	2.000000	2.066667	2.064178	2.072300	2.076568	2.079000	2.080464	2.081377	2.081961	2.082580	2.082846	2.082698	2.082459	2.082129	2.081704	2.081183	2.080562	2.079848
5	4.692468	1.852753	1.884268	1.892683	1.894660	1.894472	1.895313	1.893204	1.891056	1.888953	1.887691	1.885075	1.881976	1.880235	1.878361	1.876350	1.874195	1.871892	1.869436
6	4.621418	1.762203	1.784431	1.787155	1.785212	1.782135	1.778947	1.775962	1.773262	1.770848	1.766781	1.762140	1.756879	1.754000	1.750947	1.747710	1.744282	1.740654	1.736815
7	4.573215	1.700980	1.716929	1.715738	1.711057	1.705932	1.701145	1.696872	1.693109	1.689803	1.684317	1.678148	1.671232	1.667472	1.663495	1.659291	1.654847	1.650148	1.645181
8	4.538389	1.656854	1.668272	1.664215	1.657502	1.650839	1.644838	1.639578	1.634995	1.630994	1.624395	1.617013	1.608766	1.604287	1.599552	1.594546	1.589250	1.583646	1.577710
9	4.512062	1.623555	1.631546	1.625298	1.617011	1.609145	1.602186	1.596141	1.590900	1.586340	1.578835	1.570457	1.561100	1.556016	1.550639	1.544946	1.538915	1.532519	1.525727
10	4.491465	1.597540	1.602849	1.594866	1.585323	1.576487	1.568750	1.562062	1.556279	1.551526	1.542997	1.533778	1.523476	1.517872	1.511937	1.505643	1.498663	1.491860	1.484296
11	4.474154	1.576657	1.579809	1.570420	1.559848	1.550213	1.541828	1.534603	1.528365	1.522950	1.514049	1.504109	1.492987	1.486928	1.480500	1.473673	1.466409	1.458667	1.450395
12	4.461324	1.559526	1.560905	1.550351	1.538921	1.528614	1.519683	1.512000	1.505373	1.499621	1.490166	1.479599	1.467756	1.461292	1.454425	1.447118	1.439325	1.430996	1.422067
13	4.449968	1.545221	1.545116	1.533581	1.521424	1.510543	1.501143	1.493067	1.486103	1.480058	1.470118	1.458998	1.446514	1.439689	1.432425	1.424681	1.416404	1.407533	1.397990
14	4.440337	1.533096	1.531732	1.519358	1.506576	1.495200	1.485393	1.476973	1.469714	1.463413	1.453044	1.441433	1.428734	1.421221	1.413598	1.405454	1.396730	1.387353	1.377252
15	4.432065	1.522688	1.520241	1.507144	1.493819	1.482010	1.471846	1.463124	1.455604	1.449074	1.438325	1.426773	1.412695	1.405244	1.397290	1.388779	1.379640	1.369790	1.359122
16	4.424885	1.513657	1.510269	1.496540	1.482739	1.470550	1.460069	1.451079	1.443326	1.436593	1.425501	1.413051	1.399001	1.391277	1.383021	1.374168	1.364642	1.354347	1.343159
17	4.418593	1.505747	1.501534	1.487248	1.473026	1.460498	1.449736	1.440506	1.432545	1.425628	1.414227	1.401416	1.386934	1.378959	1.370422	1.361253	1.351364	1.340648	1.328963
18	4.413035	1.498761	1.493819	1.479309	1.464441	1.451611	1.440597	1.431150	1.423001	1.415198	1.404237	1.391096	1.376217	1.368010	1.359213	1.349747	1.339518	1.328403	1.316243
19	4.408089	1.492547	1.486955	1.471733	1.456799	1.443697	1.432454	1.422812	1.414493	1.407259	1.395321	1.381878	1.366633	1.358211	1.349171	1.339428	1.328877	1.317383	1.304766
20	4.403660	1.486964	1.480809	1.465190	1.449952	1.436604	1.425155	1.415334	1.406859	1.399487	1.377315	1.373593	1.358009	1.349388	1.340120	1.330117	1.319262	1.307407	1.294350
21	4.399670	1.481973	1.475723	1.459296	1.443783	1.430211	1.418573	1.408590	1.399972	1.392474	1.380085	1.366106	1.350207	1.341399	1.331919	1.321670	1.310527	1.298326	1.284845
22	4.396057	1.477438	1.470362	1.453598	1.438035	1.424419	1.413080	1.402476	1.393277	1.386112	1.373733	1.359106	1.341414	1.334130	1.324450	1.313969	1.302552	1.290021	1.276130
23	4.392771	1.473313	1.465704	1.449103	1.433110	1.419146	1.407177	1.396007	1.385807	1.380314	1.367541	1.353101	1.336365	1.327488	1.317619	1.306918	1.295244	1.282478	1.268505
24	4.389769	1.469545	1.461540	1.444666	1.428463	1.414327	1.402211	1.391814	1.382832	1.375009	1.362064	1.347418	1.330694	1.321392	1.311346	1.300436	1.288510	1.275358	1.260886
25	4.387015	1.466089	1.457721	1.440699	1.424219	1.409904	1.397653	1.387138	1.378052	1.3713071	1.357013	1.342191	1.325227	1.315779	1.305564	1.294456	1.282293	1.268848	1.253803
26	4.384480	1.462909	1.454206	1.436851	1.420274	1.405831	1.393454	1.382830	1.373647	1.365645	1.352389	1.337368	1.320177	1.310591	1.300216	1.288921	1.276530	1.262804	1.247495
27	4.382140	1.459923	1.451061	1.433591	1.416648	1.402068	1.389574	1.378848	1.369575	1.361491	1.348095	1.332904	1.315498	1.305782	1.295256	1.283871	1.271373	1.257515	1.241935
28	4.379971	1.457253	1.447955	1.430186	1.413288	1.398580	1.385978	1.375156	1.365798	1.357639	1.341111	1.328759	1.311152	1.301312	1.290642	1.278995	1.266178	1.252193	1.235813
29	4.377957	1.454767	1.445152	1.426929	1.410527	1.395340	1.382635	1.371724	1.362367	1.354566	1.338444	1.326461	1.308702	1.298761	1.287338	1.274828	1.261316	1.246697	1.229527
30	4.376081	1.452375	1.442562	1.423830	1.407729	1.392320	1.379519	1.368525	1.359513	1.352015	1.335947	1.323759	1.305912	1.295252	1.282314	1.268747	1.254579	1.239812	1.222560
40	4.362594	1.435469	1.423869	1.404492	1.386332	1.370574	1.357068	1.345451	1.335383	1.326582	1.311932	1.295196	1.275812	1.264688	1.252880	1.239656	1.224856	1.208014	1.188344
50	4.354597	1.424541	1.412788	1.392661	1.373906	1.357648	1.343707	1.331704	1.321288	1.311269	1.296958	1.279517	1.259204	1.247669	1.234973	1.220485	1.204882	1.186349	1.163459
60	4.349304	1.418824	1.405456	1.384829	1.365675	1.349079	1.334843	1.322578	1.311923	1.302585	1.286985	1.269049	1.248075	1.236112	1.222890	1.208093	1.191235	1.171510	1.147363
70	4.345543	1.414115	1.400246	1.379261	1.359821	1.342983	1.328533	1.316076	1.305248	1.295750	1.279864	1.261561	1.240091	1.227805	1.214180	1.198861	1.181292	1.160512	1.134553
80	4.342732	1.410597	1.396353	1.375100	1.355444	1.338423	1.323812	1.311210	1.300249	1.290630	1.274523	1.255938	1.234084	1.221542	1.207598	1.191861	1.173172	1.152046	1.124472
90	4.340552	1.407869	1.393334	1.371872	1.352309	1.334884	1.319447	1.307931	1.296765	1.286650	1.269730	1.251161	1.229716	1.216651	1.202447	1.186368	1.167356	1.145312	1.116284
100	4.338812	1.405691	1.390924	1.369255	1.349337	1.332057	1.317128	1.304410	1.293261	1.283468	1.266407	1.247895	1.226401	1.212724	1.198306	1.181946	1.162899	1.139819	1.109469
110	4.337391	1.403913	1.388955	1.367191	1.347122	1.329748	1.314825	1.301942	1.290723	1.280865	1.264329	1.245185	1.222559	1.209502	1.194903	1.178294	1.158902	1.135249	1.103687
120	4.336208	1.402434	1.387318	1.365439	1.345279	1.327825	1.312833	1.299886	1.288609	1.278697	1.262603	1.242791	1.219987	1.206809	1.192056	1.175239	1.155452	1.131382	1.098703
∞	4.323304	1.386294	1.369448	1.346317	1.325136	1.306801	1.291021	1.277357	1.265417	1.254886	1.237117	1.216339	1.191385	1.176715	1.159991	1.140400	1.116358	1.083788	1.000000

$\alpha = 0.1$

	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	∞
1	39.863458	49.500000	53.593245	55.832961	57.240077	58.204416	58.905953	59.438981	59.857585	60.194980	60.705212	61.220370	61.740023	62.002466	62.264970	62.529322	62.794279	63.060639	63.328118
2	8.526316	9.000000	9.161790	9.243416	9.292626	9.325530	9.349081	9.366730	9.380544	9.391573	9.408132	9.424711	9.441309	9.449616	9.457927	9.466244	9.474565	9.482891	9.491223
3	5.538319	5.462383	5.390773	5.342644	5.309157	5.284732	5.266195	5.251671	5.239996	5.230411	5.215618	5.200313	5.184482	5.176365	5.168111	5.159719	5.151187	5.142513	5.133695
4	4.544771	4.324555	4.190870	4.107250	4.050579	4.009749	3.978966	3.954940	3.935671	3.919876	3.895527	3.870360	3.844338	3.830994	3.817422	3.803615	3.789568	3.775275	3.760730
5	4.060420	3.779716	3.619477	3.520196	3.452982	3.404507	3.367899	3.339276	3.316281	3.297402	3.282399	3.268011	3.253824	3.239839	3.226053	3.212468	3.199073	3.185886	3.172899
6	3.775950	3.463304	3.288762	3.180763	3.107512	3.054551	3.014457	2.983036	2.957741	2.936951	2.904721	2.871222	2.836340	2.818345	2.799960	2.781169	2.761952	2.742290	2.722162
7	3.589428	3.257442	3.074072	2.960534	2.883344	2.827392	2.784930	2.751580	2.724678	2.702510	2.681111	2.662230	2.594732	2.573757	2.555457	2.538096	2.521278	2.492290	2.472616
8	3.457919	3.131318	2.923796	2.806426	2.764647	2.668335	2.624135	2.589349	2.561238	2.538037	2.501598	2.464216	2.424637	2.404097	2.383016	2.361362	2.339097	2.316810	2.292566
9	3.360303	3.006452	2.812863	2.692860	2.610613	2.550855	2.505313	2.469606	2.440340	2.416316	2.378885	2.339624	2.298322	2.276827	2.254720	2.231958	2.208493	2.184271	2.159227
10	3.285015	2.924606	2.727673	2.605336	2.521641	2.460582	2.413965	2.377150	2.347306	2.322630	2.284051	2.243515	2.200744	2.178426	2.155426	2.131691	2.106116	2.081765	2.055422
11	3.255122	2.895511	2.660229	2.536188	2.451184	2.389067	2.341566	2.303997	2.274256	2.242904	2.208725	2.167094	2.123046	2.100005	2.076214	2.051618	2.026118	1.999952	1.972109
12	3.176549	2.816940	2.581647	2.457606	2.372602	2.310485	2.262984	2.225412	2.195671	2.163822	2.129352	2.087721	2.043673	2.020632	1.996841	1.972299	1.947016	1.921081	1.894506
13	3.136205	2.761367	2.526073	2.433705	2.367274	2.305157	2.257656	2.220087	2.189340	2.157635	2.096588	2.051360	2.006982	1.982718	1.957575	1.931466	1.904287	1.876501	1.848196
14	3.102213	2.726468	2.522224	2.396922	2.330459	2.267959	2.219934	2.181504	2.121955	2.095396	2.053714	2.009535	1.962453	1.937663	1.911933	1.885163	1.857234	1.828705	1.799783
15	3.073186	2.695713	2.489788	2.361433	2.273032	2.210578	2.158130	2.086209	2.059319	2.017070	1.972216	1.924314	1.890944	1.872774	1.848539	1.816764	1.786720	1.756502	1.725502
16	3.048110	2.668171	2.461811	2.332745	2.244358	2.181829	2.129083	2.087982	2.055331	2.028145	1.985386	1.939921	1.892118	1.865561	1.838792	1.810841	1.781557	1.750747	1.718169
17	3.026232	2.646638	2.437434	2.307747	2.218253	2.155239	2.101689	2.061336	2.028838	2.000396	1.957716	1.911695	1.862361	1.836242	1.809000	1.780528	1.750627	1.719900	1.686541
18	3.006977	2.627087	2.417883	2.288196	2.198702	2.135688	2.082138	2.041785	2.009287	1.975744	1.931723	1.885202	1.835281	1.809162	1.781819	1.753252	1.723465	1.692847	1.659490
19	2.989900	2.609512	2.397022	2.267337	2.177856	2.114830	2.060820	2.017098	1.983639	1.955275	1.911702	1.864705	1.814557	1.787307	1.759241	1.729395	1.698758	1.666589	1.632744
20	2.974653	2.595254	2.380087	2.248934	2.159327	2.091322	2.037903	1.995834	1.964683	1.936738	1.892363	1.844935	1.793843	1.766667	1.738232	1.708334	1.676776	1.643256	1.607380
21	2.960956	2.574569	2.358848	2.233345	2.143780	2.075713	2.023252	1.981858	1.947974	1.916744	1.874975	1.827418	1.775551	1.748008	1.719268	1.689896	1.659907	1.627782	1.585151
22	2.948585	2.561314	2.351170	2.219724	2.129794	2.060497	2.008397	1.966796	1.932725	1.904255	1.859255	1.810575	1.758989	1.731712	1.702083	1.671382	1.638853	1.604147	1.566785
23	2.937356	2.549920	2.338722	2.206512	2.116411	2.047227	1.994915	1.953124	1.918880	1.890252	1.844974	1.796431	1.743921	1.717188	1.686428	1.655352	1.622371	1.587107	1.549035
24	2.927117	2.538332	2.327390	2.194882	2.103033	2.033132	1.980625	1.940658	1.902655	1.874880	1.831942	1.783076	1.730152	1.702812	1.671404	1.640075	1.607680	1.574149	1.529696
25	2.917142	2.527145	2.316203	2.183711	2.091862	2.021961	1.969454	1.929487	1.891484	1.853446	1.809459	1.759573	1.707687	1.680347	1.648940	1.617563	1.585117	1.551596	1.507200
26	2.909132	2.519096	2.308129	2.175649	2.083802	2.013903	1.961398	1.921437	1.883477	1.845508	1.802923	1.755751	1.705890	1.678512	1.647018	1.615625	1.583102	1.548583	1.503295
27	2.901192	2.510609	2.299712	2.167233	2.075385	2.005486	1.952979	1.912917	1.874850	1.837277	1.794191	1.747317	1.697456	1.670078	1.638583	1.607190	1.574776	1.540371	1.495198
28	2.893846	2.502761	2.290955	2.158475	2.066647	1.996741	1.944266	1.904201	1.865199	1.827633	1.783590	1.736845	1.687317	1.659846	1.628351	1.596937	1.564592	1.530317	1.485174
29	2.887033	2.494835	2.283067	2.149415	2.057582	1.987681	1.935218	1.895142	1.856988	1.821242	1.780807	1.736060	1.687934	1.660447	1.628951	1.597511	1.565090	1.467036	1.429580
30	2.880695	2.488716	2.276701	2.142325	2.050468	1.980333	1.927916	1.884121	1.845958	1.810485	1.772704	1.722276	1.667309	1.639737	1.607258	1.574278	1.540799	1.498912	1.456365
31	2.875354	2.483369	2.270392	2.090590	1.998820	1.928729	1.875252	1.832863	1.792302	1.752686	1.714563	1.662411	1.605153	1.574118	1.541675	1.508245	1.474751	1.429754	1.376912
32	2.870858	2.478058	2.265081	2.085280	1.993510	1.923429	1.870952	1.828563	1.788000	1.748379	1.709704	1.662052	1.604394	1.573359	1.540916	1.507485	1.473991	1.428994	1.376152
33	2.8671068	2.393255	2.177411	2.040986	1.945720	1.875670	1.823189	1.781729	1.742009	1.703915	1.667380	1.632358	1.548836	1.570418	1.475539	1.439721	1.395250	1.345768	1.291644
34	2.778604	2.380015	2.163735	2.026947	1.931343	1.860949	1.804848	1.759607	1.722546	1.691297	1.641276	1.586630	1.525925	1.492605	1.456726	1.417609	1.374189	1.324629	1.265161
35	2.769311	2.370149	2.153546	2.016886	1.920636	1.849113	1.793286	1.748252	1.711006	1.675968	1.629209	1.574110	1.512765	1.474805	1.440218	1.385253	1.330769	1.264597	1.200459
36	2.762115	2.362513	2.145660	2.008390	1.912348	1.840645	1.784655	1.739457	1.702053	1.667488	1.619851	1.564392	1.502532	1.464826	1.431540	1.381075	1.354738	1.291364	1.227800
37	2.756378	2.356427	2.139376	2.0001938	1.905742	1.833896	1.777653	1.732443	1.694917	1.660225	1.612381	1.556629	1.494348	1.456942	1.424691	1.391718	1.365622	1.281862	1.214209
38	2.751698	2.351474	2.134321	1.995109	1.900354	1.828508	1.772267	1.727057	1.689529	1.654820	1.607082	1.551382	1.489103	1.451688	1.419437	1.386463	1.359473	1.275713	1.208061
39	2.747807	2.347318	2.130165	1.990930	1.896175	1.824329	1.768088	1.722878	1.685349	1.649640	1.601902	1.546202	1.483923	1.446467	1.414216	1.381242	1.354252	1.270492	1.202840
40	2.705542	2.302585	2.083796	1.944860	1.847271	1.775719	1.717619	1.671925	1.631517	1.592738	1.545729	1.488732	1.425099	1.383177	1.341867	1.299516	1.257090	1.166573	1.100000

$\alpha = 0.05$

			n																
	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	∞
1	161.447639	199.500000	215.707345	224.583241	230.161878	233.986000	236.768400	238.882695	240.543255	241.881747	243.906038	245.949926	248.013082	249.051775	250.095148	251.143513	252.195739	253.252854	254.314445
2	18.512821	19.000000	19.164292	19.246794	19.296410	19.329534	19.353218	19.370993	19.384826	19.395897	19.412511	19.429135	19.445768	19.454089	19.462411	19.470736	19.479064	19.487394	19.495726
3	10.127964	9.552094	9.276628	9.117182	9.013455	8.940645	8.886743	8.845238	8.812300	8.785525	8.764461	8.748070	8.660190	8.638501	8.616576	8.594411	8.572004	8.549351	8.526450
4	7.708647	6.944272	6.591382	6.388233	6.256057	6.163132	6.094211	6.041044	5.998779	5.964371	5.917129	5.857805	5.802542	5.774389	5.745877	5.716998	5.687744	5.658105	5.628089
5	6.607881	5.786155	5.409451	5.192168	5.050239	4.950288	4.875872	4.818320	4.772466	4.735063	4.697704	4.658759	4.558131	4.527153	4.495712	4.463793	4.431380	4.398454	4.364996
6	5.987398	5.143253	4.757063	4.533677	4.387374	4.283866	4.206558	4.146804	4.099016	4.059963	4.029933	3.999930	3.938058	3.874189	3.841457	3.808164	3.774286	3.739797	3.704667
7	5.591448	4.737414	4.346831	4.120312	3.971523	3.865969	3.787044	3.725725	3.676675	3.636523	3.574676	3.510740	3.444525	3.410494	3.375808	3.340430	3.304323	3.267445	3.229751
8	5.317655	4.458970	4.066181	3.837853	3.687499	3.580580	3.500644	3.438101	3.383130	3.347163	3.283939	3.218406	3.150324	3.115240	3.079406	3.042778	3.005303	2.966923	2.927755
9	5.117355	4.256495	3.862548	3.633089	3.481659	3.373754	3.292746	3.229583	3.178893	3.137280	3.072947	3.006102	2.936455	2.900474	2.863652	2.825933	2.787429	2.747525	2.706675
10	4.964603	4.102821	3.708265	3.478050	3.325835	3.217175	3.135465	3.071658	3.020383	2.978237	2.912977	2.845017	2.774016	2.737248	2.699551	2.660855	2.621077	2.580122	2.537878
11	4.844336	3.982298	3.587434	3.356690	3.203874	3.094613	3.012330	2.947990	2.896223	2.853625	2.787569	2.718640	2.646445	2.608974	2.570489	2.530905	2.490123	2.448024	2.404470
12	4.747225	3.885204	3.490295	3.259167	3.105875	2.996120	2.913358	2.848565	2.796375	2.753387	2.686637	2.616851	2.543588	2.505482	2.466279	2.425880	2.384166	2.340995	2.296108
13	4.667193	3.805565	3.410534	3.179117	3.025438	2.915269	2.832098	2.766913	2.714356	2.671024	2.603661	2.533110	2.458882	2.420196	2.380334	2.339180	2.296596	2.252414	2.206432
14	4.600110	3.738892	3.343889	3.112250	2.958249	2.847726	2.764199	2.698672	2.645791	2.602155	2.534243	2.463003	2.387896	2.348678	2.308207	2.266350	2.222950	2.177811	2.130693
15	4.543077	3.682320	3.287382	3.055568	2.901295	2.790465	2.706627	2.640797	2.587626	2.543719	2.475313	2.403447	2.327535	2.287826	2.246789	2.204276	2.160105	2.114506	2.065847
16	4.493998	3.633723	3.238872	3.006917	2.852409	2.741311	2.657197	2.591096	2.537667	2.493513	2.424660	2.352223	2.275750	2.235405	2.193841	2.150711	2.105813	2.058895	2.009635
17	4.451322	3.591531	3.196777	2.964708	2.809996	2.698660	2.614299	2.547955	2.494291	2.449916	2.380654	2.307693	2.230554	2.189766	2.147708	2.103998	2.058411	2.010663	1.960386
18	4.413873	3.554557	3.159808	2.927744	2.772853	2.661305	2.576722	2.510158	2.456281	2.411702	2.342607	2.268622	2.190648	2.149665	2.107143	2.062885	2.016643	1.968100	1.916840
19	4.380750	3.521893	3.127230	2.895107	2.740058	2.628318	2.543534	2.476770	2.422699	2.377934	2.307954	2.234063	2.155497	2.114143	2.070186	2.024517	1.977544	1.929237	1.878705
20	4.351244	3.492828	3.098391	2.866601	2.711089	2.598978	2.514011	2.447404	2.392814	2.347878	2.277581	2.203274	2.124155	2.082454	2.039086	1.993819	1.946538	1.896318	1.843180
21	4.324794	3.466800	3.072467	2.840100	2.684781	2.572712	2.487578	2.420462	2.366048	2.320953	2.250362	2.175760	2.096033	2.054004	2.010248	1.964515	1.916486	1.865739	1.811703
22	4.300950	3.443357	3.049125	2.816708	2.661274	2.549061	2.463774	2.396503	2.341937	2.296966	2.225831	2.150778	2.070656	2.028319	1.984195	1.938018	1.889445	1.838018	1.783107
23	4.279344	3.422132	3.027998	2.795539	2.639999	2.527655	2.442226	2.374812	2.320105	2.274728	2.203607	2.128217	2.047638	2.005009	1.960537	1.913938	1.864844	1.812760	1.756997
24	4.259677	3.402826	3.008787	2.776299	2.620654	2.508189	2.422629	2.355081	2.300244	2.254739	2.183380	2.107673	2.026664	1.983760	1.938957	1.891955	1.841290	1.788642	1.733049
25	4.241699	3.385190	2.991241	2.758710	2.602987	2.490410	2.404728	2.337057	2.282097	2.236474	2.164891	2.088887	2.007471	1.964306	1.919188	1.871801	1.821277	1.768395	1.712992
26	4.225201	3.369016	2.975054	2.742594	2.586790	2.474109	2.388314	2.320527	2.265453	2.219718	2.147926	2.071642	1.989842	1.946428	1.901010	1.852551	1.800219	1.744975	1.696600
27	4.210008	3.354131	2.960351	2.727765	2.571886	2.459108	2.373208	2.305313	2.250131	2.204292	2.132303	2.055755	1.973590	1.929940	1.884236	1.836129	1.785149	1.730650	1.676182
28	4.195972	3.340386	2.946685	2.714076	2.558128	2.445259	2.359260	2.291264	2.235982	2.190044	2.117869	2.041071	1.958561	1.914686	1.868709	1.820263	1.768857	1.713800	1.654076
29	4.182964	3.327654	2.934030	2.701399	2.545386	2.432434	2.346342	2.278251	2.222874	2.176844	2.104493	2.027458	1.944620	1.900531	1.854293	1.805523	1.753074	1.698017	1.639744
30	4.170877	3.315830	2.922277	2.689628	2.533555	2.420523	2.334344	2.266163	2.210697	2.164580	2.092063	2.014804	1.931653	1.887360	1.840872	1.791790	1.739574	1.684352	1.626265
40	4.084746	3.231727	2.838745	2.605975	2.449466	2.335852	2.249624	2.180170	2.124029	2.077248	2.003459	1.924463	1.838859	1.792937	1.744432	1.692797	1.637252	1.578610	1.508904
50	4.024310	3.180610	2.786808	2.554038	2.397519	2.283905	2.207586	2.137022	2.079735	2.032643	1.958365	1.871384	1.784125	1.737080	1.687157	1.634682	1.578654	1.518872	1.438259
60	4.001191	3.150411	2.756878	2.524106	2.367587	2.254053	2.177654	2.106968	2.049098	1.992502	1.917396	1.829437	1.741884	1.700117	1.649411	1.594793	1.534314	1.467267	1.389276
70	3.977779	3.127676	2.735451	2.502686	2.345886	2.231192	2.154378	2.073690	2.016601	1.968875	1.893248	1.811681	1.722325	1.678289	1.622040	1.566078	1.505472	1.435147	1.352939
80	3.960352	3.117066	2.718785	2.485885	2.328721	2.214193	2.136234	2.056373	1.999115	1.951220	1.875262	1.793222	1.703160	1.654168	1.601730	1.544887	1.482111	1.410677	1.326960
90	3.946876	3.097698	2.700538	2.472927	2.315689	2.201056	2.113067	2.042986	1.985595	1.937567	1.861344	1.778927	1.688298	1.638904	1.585937	1.528369	1.465331	1.391373	1.301970
100	3.936143	3.087296	2.690534	2.462615	2.305318	2.190601	2.102513	2.032328	1.974829	1.926692	1.850255	1.767302	1.676434	1.626708	1.573302	1.515125	1.450386	1.375332	1.283212
110	3.927394	3.078819	2.681739	2.454213	2.296868	2.182082	2.093913	2.023641	1.966054	1.917827	1.841212	1.758230	1.667474	1.616739	1.562962	1.504268	1.438753	1.362787	1.267403
120	3.920114	3.071179	2.680168	2.452719	2.295300	2.180514	2.092345	2.022072	1.964485	1.916258	1.839673	1.756700	1.665944	1.615209	1.561432	1.502738	1.437223	1.361257	1.265873
∞	3.841459	2.995732	2.604909	2.371932	2.214100	2.095598	2.006951	1.938414	1.878886	1.830704	1.752122	1.666386	1.575522	1.512293	1.450999	1.393962	1.338032	1.221395	1.000000

$\alpha = 0.025$

	n																			
	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	∞	
1	647.789011	799.500000	864.162972	899.583130	921.847903	937.111083	948.216889	956.656221	963.284879	968.627944	976.707950	984.866841	993.102805	997.249245	1001.414448	1005.598790	1009.800180	1014.020239	1018.258270	
2	38.506329	39.000000	39.165495	39.288228	39.331458	39.355205	39.373022	39.388539	39.401775	39.412611	39.421361	39.429135	39.435768	39.440899	39.445656	39.449285	39.451826	39.454290	39.456780	
3	17.443443	16.044106	15.439182	15.100979	14.884823	14.734718	14.624395	14.539887	14.473081	14.418942	14.365552	14.252711	14.167381	14.124146	14.080523	14.036509	13.992098	13.947285	13.902065	
4	12.172863	10.691111	9.979199	9.505330	9.364771	9.271711	9.204141	9.157580	9.104682	9.043881	8.951559	8.826441	8.659943	8.510873	8.461274	8.411132	8.360346	8.309170	8.257252	
5	10.006982	8.433621	7.763589	7.387866	7.146382	6.977702	6.854395	6.751722	6.681054	6.619154	6.524549	6.427728	6.328555	6.250803	6.228870	6.175050	6.125259	6.069293	6.015310	
6	8.813101	7.259856	6.598799	6.227161	5.987565	5.819757	5.695470	5.599623	5.523407	5.461324	5.366244	5.268667	5.168401	5.117192	5.065227	5.012471	4.958891	4.904446	4.849099	
7	8.072669	6.514520	5.889819	5.522594	5.285237	5.118529	4.994909	4.899341	4.823217	4.761116	4.665830	4.567787	4.467540	4.414999	4.362393	4.308776	4.254398	4.199804	4.142332	
8	7.570882	6.059467	5.415962	5.052632	4.817126	4.651696	4.528562	4.433260	4.357233	4.295127	4.199667	4.102133	3.999453	3.947220	3.894016	3.839780	3.784446	3.727940	3.670178	
9	7.202983	5.714705	5.078119	4.718078	4.484411	4.317922	4.179047	4.101956	4.025994	3.963865	3.868220	3.769357	3.666906	3.614196	3.560410	3.505748	3.449932	3.393199	3.332852	
10	6.936728	5.453696	4.825621	4.468342	4.236006	4.072131	3.945824	3.854891	3.789963	3.716792	3.620945	3.521673	3.418544	3.365369	3.311017	3.255396	3.198402	3.139914	3.079792	
11	6.724130	5.241303	4.613270	4.255702	4.023362	3.859486	3.732866	3.641933	3.577005	3.503834	3.397987	3.293130	3.189428	3.136297	3.081973	3.026599	2.969999	2.912324	2.853626	
12	6.553769	5.059687	4.471851	4.112209	3.881374	3.728292	3.606515	3.517777	3.443862	3.373553	3.277277	3.172701	3.070723	3.018771	2.962378	2.906346	2.847768	2.787365	2.724926	
13	6.414254	4.952656	4.347178	3.995898	3.766674	3.604256	3.482669	3.387987	3.312023	3.249668	3.153175	3.052713	2.947671	2.893191	2.837247	2.779693	2.720356	2.659029	2.595458	
14	6.299359	4.856968	4.241728	3.891431	3.663423	3.501365	3.379933	3.285288	3.209300	3.146861	3.050515	2.949321	2.843691	2.788811	2.732377	2.674223	2.614552	2.551924	2.487421	
15	6.199501	4.765048	4.152804	3.804271	3.576415	3.414663	3.293360	3.198738	3.122712	3.060197	2.963822	2.862093	2.755902	2.700640	2.643735	2.585005	2.524226	2.461122	2.395448	
16	6.115127	4.685265	4.076823	3.729473	3.502116	3.340461	3.219343	3.124822	3.048753	2.986163	2.889468	2.787518	2.680793	2.625616	2.567813	2.508529	2.447066	2.383111	2.316268	
17	6.042013	4.618874	4.010633	3.663474	3.436118	3.274463	3.153357	3.058879	2.982799	2.920488	2.823882	2.723032	2.616594	2.561392	2.503228	2.443733	2.382193	2.318524	2.252743	
18	5.978252	4.555110	3.946869	3.599710	3.372354	3.210699	3.089592	2.995071	2.918571	2.856262	2.759657	2.658705	2.552293	2.507099	2.448945	2.389247	2.327992	2.264595	2.199025	
19	5.921631	4.500528	3.903248	3.556706	3.329378	3.167784	3.046688	2.952527	2.876025	2.813745	2.717554	2.616819	2.510943	2.465731	2.407586	2.347832	2.285492	2.221531	2.154970	
20	5.871494	4.461255	3.865899	3.519465	3.292056	3.130450	3.009346	2.915277	2.838756	2.776471	2.679581	2.579096	2.473484	2.428262	2.369820	2.273232	2.223359	2.156242	2.085337	
21	5.826648	4.419918	3.818761	3.475408	3.250084	3.088509	2.967410	2.873399	2.797704	2.735476	2.638672	2.537622	2.432475	2.387256	2.328028	2.264768	2.189495	2.114904	2.042226	
22	5.786299	4.382768	3.784886	3.441626	3.215087	3.053549	2.932399	2.839155	2.762815	2.699813	2.602657	2.498405	2.389893	2.335100	2.274840	2.209678	2.145594	2.070391	2.003220	
23	5.749805	4.349202	3.750286	3.408258	3.183488	3.021934	2.902347	2.808699	2.732307	2.669244	2.569941	2.464651	2.355652	2.299807	2.238919	2.173643	2.112078	2.046315	1.976773	
24	5.716639	4.316033	3.717348	3.375320	3.150550	2.989000	2.869413	2.775765	2.700373	2.637310	2.537999	2.432699	2.323699	2.267811	2.206923	2.141647	2.075982	2.010027	1.941777	
25	5.686366	4.290522	3.692473	3.350009	3.125238	2.963688	2.844099	2.750450	2.675057	2.612000	2.512690	2.407389	2.301989	2.246101	2.185261	2.119820	2.054539	1.988105	1.920528	
26	5.658624	4.265483	3.669736	3.328894	3.104170	2.942700	2.823086	2.729283	2.653780	2.589951	2.490484	2.386705	2.279879	2.224178	2.163527	2.097800	2.025699	1.954483	1.879083	
27	5.631099	4.242094	3.646192	3.306741	3.082802	2.922831	2.802118	2.707396	2.630856	2.567576	2.468752	2.364412	2.257241	2.194955	2.133427	2.069345	2.001781	1.929947	1.852693	
28	5.605954	4.226548	3.630628	3.291233	3.067254	2.907255	2.786519	2.691800	2.615063	2.547315	2.448375	2.343847	2.236211	2.173522	2.112088	2.047664	1.979653	1.907918	1.829126	
29	5.587768	4.205752	3.609187	3.269748	3.045830	2.885896	2.765317	2.668562	2.591950	2.528575	2.429524	2.324816	2.219305	2.156006	2.093217	2.027563	1.959518	1.886608	1.807183	
30	5.567535	4.182061	3.585379	3.245923	3.022006	2.862076	2.741497	2.644730	2.568126	2.504610	2.405519	2.300754	2.195160	2.131879	2.069494	2.002887	1.934008	1.860418	1.786966	
31	5.549317	4.162317	3.565634	3.226181	3.002264	2.842334	2.721755	2.625000	2.548396	2.484880	2.385789	2.280974	2.175380	2.112097	2.049712	1.982905	1.913897	1.840708	1.767534	
32	5.533023	4.143931	3.547191	3.309189	3.054415	2.832564	2.711975	2.615224	2.538621	2.475106	2.376015	2.271192	2.165597	2.102314	2.039829	1.973022	1.903915	1.830826	1.757762	
33	5.518611	4.125265	3.542520	3.307659	3.076753	2.854815	2.734230	2.637479	2.560874	2.500000	2.400909	2.295974	2.190380	2.127097	2.064612	1.997805	1.927698	1.854812	1.781964	
34	5.505013	4.107609	3.524965	3.289808	3.058902	2.836964	2.716379	2.619628	2.543023	2.480149	2.381058	2.276123	2.170529	2.107246	2.044761	1.978954	1.908847	1.836161	1.763513	
35	5.492225	4.090961	3.507317	3.272151	3.041245	2.819307	2.698722	2.601971	2.525366	2.462492	2.363401	2.258466	2.152872	2.089589	2.027104	1.961297	1.891190	1.818704	1.746256	
36	5.480258	4.074317	3.490672	3.255505	3.024599	2.802661	2.682076	2.585325	2.508720	2.445846	2.346755	2.241820	2.136226	2.072943	2.010458	1.944651	1.874544	1.802258	1.729990	
37	5.469013	4.058572	3.474928	3.239750	3.008844	2.786906	2.666321	2.569570	2.492965	2.430091	2.331000	2.226065	2.120471	2.057188	1.994703	1.928896	1.858789	1.786503	1.714245	
38	5.458497	4.043727	3.459189	3.224891	3.003988	2.781990	2.661405	2.564654	2.488049	2.425175	2.326084	2.221149	2.115555	2.052272	1.989787	1.923980	1.853873	1.781587	1.709349	
39	5.448620	4.029781	3.443400	3.209932	2.989026	2.767080	2.646495	2.549744	2.473139	2.410265	2.311174	2.206239	2.100645	2.037362	1.974877	1.909070	1.838963	1.766677	1.694439	
40	5.439385	4.016626	3.427611	3.194983	2.974077	2.752165	2.631580	2.534829	2.458224	2.395350	2.296259	2.191324	2.085730	2.022447	1.959962	1.894155	1.824048	1.751762	1.679524	
41	5.430700	4.004271	3.411722	3.180034	2.959128	2.738209	2.617624	2.520873	2.444268	2.381394	2.282303	2.177368	2.071774	2.008491	1.946006	1.880199	1.810092	1.737806	1.665568	
42	5.422573	3.992626	3.399463	3.165085	2.944179	2.722290	2.601705	2.505054	2.428449	2.365575	2.266484	2.161549	2.055955	1.992672	1.930187	1.864380	1.794273	1.721987	1.649749	
43	5.414906	3.981679	3.388304	3.153906	2.933000	2.711351	2.590766	2.494115	2.417510	2.354636	2.255545	2.150610	2.045016	1.981733	1.919248	1.853441	1.783334	1.711048	1.638762	
44	5.407699	3.971324	3.378145	3.143547	2.922641	2.700702	2.580117	2.483466	2.406861	2.343987	2.244896	2.139961	2.034367	1.971084	1.908599	1.842792	1.772685	1.700400	1.628114	
45	5.400952	3.961479	3.368386	3.133588	2.912882	2.691233	2.570648	2.474097	2.397492	2.334618	2.235527	2.130592	2.024998	1.961715	1.899230	1.833423	1.763316	1.691030	1.618744	
46	5.394675	3.952024	3.359227	3.124229	2.903523	2.681928	2.561343	2.464792	2.388187	2.325313	2.226222	2.121287	2.015693	1.952410	1.889925	1.824118	1.754011	1.681725	1.609439	
47	5.388858	3.943069	3.350468	3.115470	2.894814	2.673208	2.552623	2.456072	2.379467	2.316493	2.217402	2.112467	2.006873	1.943590	1.881105	1.815298	1.745191	1.672905	1.600619	
48	5.383491																			

$\alpha = 0.01$

	n																			
	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	∞	
1	45.02180695	4999.500000	5403.352014	5624.583330	5763.495435	5858.966107	5928.355732	5981.070308	6022.473423	6055.846742	6106.320870	6157.284816	6208.730222	6234.630894	6260.648579	6286.748255	6310.930053	6339.391275	6365.845785	
2	98.502131	99.000000	99.166201	99.299296	99.299296	99.332589	99.36374	99.374215	99.388093	99.399196	99.415852	99.432511	99.448717	99.465833	99.474054	99.481765	99.488497	99.490829	99.491662	
3	34.116222	30.816520	29.456695	28.709898	28.281788	27.910657	27.671696	27.488917	27.345326	27.248734	27.051819	26.872195	26.689791	26.529923	26.385544	26.410812	26.316551	26.213391	26.126375	
4	21.917690	18.000000	16.694399	15.977025	15.231058	15.206865	14.975758	14.798891	14.654934	14.545894	14.375587	14.198024	14.019609	13.929676	13.807630	13.745379	13.652198	13.538996	13.463051	
5	16.258177	13.273924	12.054564	11.331918	10.572130	10.567021	10.372130	10.20177	10.05177	9.88255	9.72189	9.55646	9.44871	9.37929	9.29149	9.20205	9.10174	8.90294	8.74723	
6	13.745023	10.942767	9.779538	9.148631	8.745895	8.744505	8.259995	8.101651	7.976121	7.874119	7.718333	7.589994	7.395832	7.317221	7.228533	7.143222	7.056737	6.960203	6.880021	
7	12.246383	9.254765	8.451285	7.846645	7.460435	7.461425	6.992833	6.840049	6.718752	6.620063	6.460991	6.314313	6.154348	6.074319	5.992010	5.908449	5.825636	5.732786	5.649522	
8	11.258624	8.649111	7.509992	7.006077	6.631825	6.370881	6.177624	6.028870	5.910619	5.814294	5.666719	5.515125	5.359095	5.279264	5.198130	5.115160	5.031618	4.946052	4.857878	
9	10.561431	8.021517	6.991917	6.422085	6.056941	5.800717	5.612865	5.467123	5.351129	5.256542	5.111431	4.962078	4.807995	4.728998	4.645842	4.566649	4.483087	4.397769	4.310549	
10	10.042899	7.559432	6.552313	5.994339	5.636326	5.385811	5.200121	5.056693	4.942421	4.849147	4.705870	4.581840	4.450395	4.326299	4.246933	4.165287	4.081855	3.996481	3.908890	
11	9.646034	7.168373	6.216713	5.656837	5.301663	5.051663	4.868637	4.725163	4.632863	4.539637	4.396363	4.272363	4.139863	4.015863	3.936363	3.851863	3.767363	3.681863	3.596363	
12	9.330212	6.926663	5.955245	5.411951	5.056324	4.820564	4.639502	4.495635	4.387510	4.296054	4.152558	4.029654	3.895843	3.769483	3.700783	3.619193	3.535454	3.449400	3.360809	
13	9.073806	6.700965	5.739380	5.205330	4.861621	4.620363	4.477992	4.300262	4.191078	4.100267	3.960326	3.815365	3.664609	3.586753	3.507042	3.425293	3.341287	3.254760	3.165393	
14	8.861593	6.514884	5.563886	5.035378	4.690464	4.455820	4.240087	4.093946	4.029680	3.939396	3.800141	3.655697	3.502252	3.427387	3.347596	3.265641	3.181274	3.094191	3.004018	
15	8.683117	6.358973	5.416965	4.889210	4.555614	4.318273	4.141546	4.004543	3.894788	3.804940	3.666240	3.521294	3.371892	3.294029	3.214110	3.131098	3.047135	2.959453	2.868426	
16	8.530965	6.226235	5.292214	4.772578	4.437420	4.201634	4.025947	3.889572	3.780415	3.690931	3.552678	3.408947	3.258737	3.180811	3.100733	3.018248	2.930346	2.844737	2.752824	
17	8.399740	6.122114	5.185000	4.666868	4.330939	4.101505	3.926179	3.790054	3.682242	3.593066	3.455198	3.311694	3.165118	3.085302	3.002421	2.920458	2.834806	2.745852	2.653033	
18	8.285420	6.012960	5.079035	4.560362	4.224487	4.001402	3.825728	3.689572	3.582508	3.493292	3.355397	3.209872	3.062397	2.981582	2.900000	2.817825	2.733071	2.645726	2.554800	
19	8.189497	5.915294	5.002787	4.483595	4.147767	3.923873	3.756239	3.630052	3.525003	3.433817	3.296527	3.153343	3.003109	2.924866	2.844201	2.760786	2.674121	2.583944	2.489280	
20	8.095958	5.848932	4.938193	4.430660	4.102685	3.871427	3.698740	3.564122	3.456676	3.368186	3.231120	3.088041	2.937735	2.859363	2.778485	2.694749	2.607708	2.516783	2.421191	
21	8.016597	5.780416	4.870466	4.363815	4.042144	3.811725	3.639590	3.506382	3.398147	3.309830	3.172953	3.029951	2.879558	2.801050	2.719955	2.635896	2.548993	2.456813	2.360294	
22	7.943586	5.719022	4.816606	4.313429	3.997963	3.758201	3.586660	3.453034	3.345773	3.257606	3.120891	2.977946	2.827447	2.748802	2.667490	2.583511	2.495149	2.402919	2.305747	
23	7.881134	5.663999	4.768767	4.265567	3.951995	3.712018	3.539024	3.405095	3.296834	3.210599	3.074025	2.931118	2.780504	2.701720	2.620191	2.535494	2.447081	2.353429	2.255850	
24	7.823271	5.606294	4.711807	4.208617	3.895045	3.655067	3.482072	3.348143	3.261897	3.175662	3.039087	2.896180	2.745566	2.666782	2.585253	2.500000	2.411387	2.317920	2.220850	
25	7.769798	5.567997	4.675485	4.172420	3.858397	3.621714	3.456754	3.322839	3.236593	3.150357	2.998505	2.855618	2.699322	2.620027	2.538305	2.452992	2.363695	2.269592	2.169390	
26	7.721254	5.526335	4.636570	4.133960	3.820453	3.583593	3.420993	3.286931	3.181824	3.094108	2.957848	2.814982	2.663991	2.584728	2.502624	2.417007	2.323729	2.232536	2.131471	
27	7.676584	5.488118	4.600907	4.105622	3.784770	3.557991	3.388219	3.255827	3.149385	3.061754	2.925573	2.782703	2.631580	2.552339	2.469872	2.383960	2.293812	2.198605	2.096517	
28	7.635619	5.452937	4.568091	4.073573	3.758095	3.527559	3.358073	3.225688	3.119547	3.031992	2.895811	2.753000	2.601744	2.522468	2.439701	2.353501	2.262941	2.167045	2.064180	
29	7.597663	5.420445	4.537795	4.044873	3.725399	3.494975	3.326553	3.198219	3.092009	3.004524	2.868472	2.725577	2.574188	2.494579	2.411817	2.325335	2.234372	2.138751	2.034166	
30	7.562476	5.390046	4.507740	4.017877	3.698499	3.468173	3.300652	3.172624	3.065905	2.978044	2.842095	2.700180	2.548659	2.468921	2.385967	2.299211	2.207854	2.112162	2.006225	
31	7.531410	5.357853	4.475284	3.985394	3.666018	3.435380	3.267805	3.139722	3.032997	2.945036	2.809177	2.667261	2.515746	2.436008	2.353054	2.266297	2.174841	2.078719	1.973828	
32	7.510577	5.356611	4.473933	3.975405	3.656080	3.425448	3.257808	3.129725	3.023000	2.935039	2.799180	2.657264	2.505749	2.425991	2.343037	2.256280	2.164824	2.068702	1.963811	
33	7.077106	4.977432	4.129892	3.643674	3.338884	3.118674	2.950349	2.828008	2.718454	2.631751	2.496116	2.352297	2.197806	2.115364	2.028479	1.936018	1.836259	1.726320	1.603447	
34	7.013399	4.921872	4.074397	3.596647	3.290689	3.071209	2.906325	2.775633	2.671895	2.585226	2.449575	2.305517	2.150410	2.067425	1.979748	1.886115	1.785557	1.676160	1.540435	
35	6.962688	4.880738	4.036297	3.559161	3.253509	3.036111	2.871265	2.741964	2.637398	2.550821	2.415136	2.270879	2.115721	2.032187	1.943526	1.848932	1.747457	1.630452	1.494208	
36	6.925135	4.849058	4.006598	3.529592	3.223766	3.009106	2.844651	2.715364	2.610879	2.524626	2.388623	2.244195	2.088716	2.004397	1.915536	1.820174	1.715821	1.598210	1.457394	
37	6.895301	4.823910	3.983642	3.506682	3.200856	2.986192	2.821745	2.692462	2.597984	2.511712	2.375707	2.231278	2.075800	1.991481	1.902619	1.807257	1.699800	1.581800	1.440978	
38	6.871028	4.803462	3.964779	3.494555	3.188194	2.973278	2.808855	2.679573	2.584832	2.498578	2.362578	2.218105	2.062637	1.978397	1.889077	1.793759	1.677480	1.559210	1.420218	
39	6.850803	4.786510	3.949100	3.479531	3.173545	2.958584	2.794164	2.664906	2.570172	2.483927	2.347927	2.203450	2.048088	1.963818	1.874508	1.779189	1.662919	1.544653	1.395028	
40	6.836486	4.650170	3.786122	3.319176	3.012754	2.801982	2.637330	2.511729	2.407333	2.320925	2.184747	2.039828	1.883132	1.798026	1.696006	1.592628	1.472990	1.354855	1.200288	