

Modern Logarithms

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February 7, 2012

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1 Decimal Logarithms

	0	1	2	3	4	5	6	7	8	9
1.00	.00000	.00043	.00087	.00130	.00173	.00217	.00260	.00303	.00346	.00389
1.01	.00432	.00475	.00518	.00561	.00604	.00647	.00689	.00732	.00775	.00817
1.02	.00860	.00903	.00945	.00988	.01030	.01072	.01115	.01157	.01199	.01242
1.03	.01284	.01326	.01368	.01410	.01452	.01494	.01536	.01578	.01620	.01662
1.04	.01703	.01745	.01787	.01828	.01870	.01912	.01953	.01995	.02036	.02078
1.05	.02119	.02160	.02202	.02243	.02284	.02325	.02366	.02407	.02449	.02490
1.06	.02531	.02572	.02612	.02653	.02694	.02735	.02776	.02816	.02857	.02898
1.07	.02938	.02979	.03019	.03060	.03100	.03141	.03181	.03222	.03262	.03302
1.08	.03342	.03383	.03423	.03463	.03503	.03543	.03583	.03623	.03663	.03703
1.09	.03743	.03782	.03822	.03862	.03902	.03941	.03981	.04021	.04060	.04100
1.10	.04139	.04179	.04218	.04258	.04297	.04336	.04376	.04415	.04454	.04493
1.11	.04532	.04571	.04610	.04650	.04689	.04727	.04766	.04805	.04844	.04883
1.12	.04922	.04961	.04999	.05038	.05077	.05115	.05154	.05192	.05231	.05269
1.13	.05308	.05346	.05385	.05423	.05461	.05500	.05538	.05576	.05614	.05652
1.14	.05690	.05729	.05767	.05805	.05843	.05881	.05918	.05956	.05994	.06032
1.15	.06070	.06108	.06145	.06183	.06221	.06258	.06296	.06333	.06371	.06408
1.16	.06446	.06483	.06521	.06558	.06595	.06633	.06670	.06707	.06744	.06781
1.17	.06819	.06856	.06893	.06930	.06967	.07004	.07041	.07078	.07115	.07151
1.18	.07188	.07225	.07262	.07298	.07335	.07372	.07408	.07445	.07482	.07518
1.19	.07555	.07591	.07628	.07664	.07700	.07737	.07773	.07809	.07846	.07882
1.20	.07918	.07954	.07990	.08027	.08063	.08099	.08135	.08171	.08207	.08243
1.21	.08279	.08314	.08350	.08386	.08422	.08458	.08493	.08529	.08565	.08600
1.22	.08636	.08672	.08707	.08743	.08778	.08814	.08849	.08884	.08920	.08955
1.23	.08991	.09026	.09061	.09096	.09132	.09167	.09202	.09237	.09272	.09307
1.24	.09342	.09377	.09412	.09447	.09482	.09517	.09552	.09587	.09621	.09656
1.25	.09691	.09726	.09760	.09795	.09830	.09864	.09899	.09934	.09968	.10003
1.26	.10037	.10072	.10106	.10140	.10175	.10209	.10243	.10278	.10312	.10346
1.27	.10380	.10415	.10449	.10483	.10517	.10551	.10585	.10619	.10653	.10687
1.28	.10721	.10755	.10789	.10823	.10857	.10890	.10924	.10958	.10992	.11025
1.29	.11059	.11093	.11126	.11160	.11193	.11227	.11261	.11294	.11327	.11361
1.30	.11394	.11428	.11461	.11494	.11528	.11561	.11594	.11628	.11661	.11694
1.31	.11727	.11760	.11793	.11826	.11860	.11893	.11926	.11959	.11992	.12024
1.32	.12057	.12090	.12123	.12156	.12189	.12222	.12254	.12287	.12320	.12352
1.33	.12385	.12418	.12450	.12483	.12516	.12548	.12581	.12613	.12646	.12678
1.34	.12710	.12743	.12775	.12808	.12840	.12872	.12905	.12937	.12969	.13001
1.35	.13033	.13066	.13098	.13130	.13162	.13194	.13226	.13258	.13290	.13322
1.36	.13354	.13386	.13418	.13450	.13481	.13513	.13545	.13577	.13609	.13640
1.37	.13672	.13704	.13735	.13767	.13799	.13830	.13862	.13893	.13925	.13956
1.38	.13988	.14019	.14051	.14082	.14114	.14145	.14176	.14208	.14239	.14270
1.39	.14301	.14333	.14364	.14395	.14426	.14457	.14489	.14520	.14551	.14582
1.40	.14613	.14644	.14675	.14706	.14737	.14768	.14799	.14829	.14860	.14891
1.41	.14922	.14953	.14983	.15014	.15045	.15076	.15106	.15137	.15168	.15198
1.42	.15229	.15259	.15290	.15320	.15351	.15381	.15412	.15442	.15473	.15503
1.43	.15534	.15564	.15594	.15625	.15655	.15685	.15715	.15746	.15776	.15806
1.44	.15836	.15866	.15897	.15927	.15957	.15987	.16017	.16047	.16077	.16107
1.45	.16137	.16167	.16197	.16227	.16256	.16286	.16316	.16346	.16376	.16406
1.46	.16435	.16465	.16495	.16524	.16554	.16584	.16613	.16643	.16673	.16702
1.47	.16732	.16761	.16791	.16820	.16850	.16879	.16909	.16938	.16967	.16997

	0	1	2	3	4	5	6	7	8	9
1.48	.17026	.17056	.17085	.17114	.17143	.17173	.17202	.17231	.17260	.17289
1.49	.17319	.17348	.17377	.17406	.17435	.17464	.17493	.17522	.17551	.17580
1.50	.17609	.17638	.17667	.17696	.17725	.17754	.17782	.17811	.17840	.17869
1.51	.17898	.17926	.17955	.17984	.18013	.18041	.18070	.18099	.18127	.18156
1.52	.18184	.18213	.18241	.18270	.18298	.18327	.18355	.18384	.18412	.18441
1.53	.18469	.18498	.18526	.18554	.18583	.18611	.18639	.18667	.18696	.18724
1.54	.18752	.18780	.18808	.18837	.18865	.18893	.18921	.18949	.18977	.19005
1.55	.19033	.19061	.19089	.19117	.19145	.19173	.19201	.19229	.19257	.19285
1.56	.19312	.19340	.19368	.19396	.19424	.19451	.19479	.19507	.19535	.19562
1.57	.19590	.19618	.19645	.19673	.19700	.19728	.19756	.19783	.19811	.19838
1.58	.19866	.19893	.19921	.19948	.19976	.20003	.20030	.20058	.20085	.20112
1.59	.20140	.20167	.20194	.20222	.20249	.20276	.20303	.20330	.20358	.20385
1.60	.20412	.20439	.20466	.20493	.20520	.20548	.20575	.20602	.20629	.20656
1.61	.20683	.20710	.20737	.20763	.20790	.20817	.20844	.20871	.20898	.20925
1.62	.20952	.20978	.21005	.21032	.21059	.21085	.21112	.21139	.21165	.21192
1.63	.21219	.21245	.21272	.21299	.21325	.21352	.21378	.21405	.21431	.21458
1.64	.21484	.21511	.21537	.21564	.21590	.21617	.21643	.21669	.21696	.21722
1.65	.21748	.21775	.21801	.21827	.21854	.21880	.21906	.21932	.21958	.21985
1.66	.22011	.22037	.22063	.22089	.22115	.22141	.22167	.22194	.22220	.22246
1.67	.22272	.22298	.22324	.22350	.22376	.22401	.22427	.22453	.22479	.22505
1.68	.22531	.22557	.22583	.22608	.22634	.22660	.22686	.22712	.22737	.22763
1.69	.22789	.22814	.22840	.22866	.22891	.22917	.22943	.22968	.22994	.23019
1.70	.23045	.23070	.23096	.23121	.23147	.23172	.23198	.23223	.23249	.23274
1.71	.23300	.23325	.23350	.23376	.23401	.23426	.23452	.23477	.23502	.23528
1.72	.23553	.23578	.23603	.23629	.23654	.23679	.23704	.23729	.23754	.23779
1.73	.23805	.23830	.23855	.23880	.23905	.23930	.23955	.23980	.24005	.24030
1.74	.24055	.24080	.24105	.24130	.24155	.24180	.24204	.24229	.24254	.24279
1.75	.24304	.24329	.24353	.24378	.24403	.24428	.24452	.24477	.24502	.24527
1.76	.24551	.24576	.24601	.24625	.24650	.24674	.24699	.24724	.24748	.24773
1.77	.24797	.24822	.24846	.24871	.24895	.24920	.24944	.24969	.24993	.25018
1.78	.25042	.25066	.25091	.25115	.25139	.25164	.25188	.25212	.25237	.25261
1.79	.25285	.25310	.25334	.25358	.25382	.25406	.25431	.25455	.25479	.25503
1.80	.25527	.25551	.25575	.25600	.25624	.25648	.25672	.25696	.25720	.25744
1.81	.25768	.25792	.25816	.25840	.25864	.25888	.25912	.25935	.25959	.25983
1.82	.26007	.26031	.26055	.26079	.26102	.26126	.26150	.26174	.26198	.26221
1.83	.26245	.26269	.26293	.26316	.26340	.26364	.26387	.26411	.26435	.26458
1.84	.26482	.26505	.26529	.26553	.26576	.26600	.26623	.26647	.26670	.26694
1.85	.26717	.26741	.26764	.26788	.26811	.26834	.26858	.26881	.26905	.26928
1.86	.26951	.26975	.26998	.27021	.27045	.27068	.27091	.27114	.27138	.27161
1.87	.27184	.27207	.27231	.27254	.27277	.27300	.27323	.27346	.27370	.27393
1.88	.27416	.27439	.27462	.27485	.27508	.27531	.27554	.27577	.27600	.27623
1.89	.27646	.27669	.27692	.27715	.27738	.27761	.27784	.27807	.27830	.27852
1.90	.27875	.27898	.27921	.27944	.27967	.27989	.28012	.28035	.28058	.28081
1.91	.28103	.28126	.28149	.28171	.28194	.28217	.28240	.28262	.28285	.28307
1.92	.28330	.28353	.28375	.28398	.28421	.28443	.28466	.28488	.28511	.28533
1.93	.28556	.28578	.28601	.28623	.28646	.28668	.28691	.28713	.28735	.28758
1.94	.28780	.28803	.28825	.28847	.28870	.28892	.28914	.28937	.28959	.28981
1.95	.29003	.29026	.29048	.29070	.29092	.29115	.29137	.29159	.29181	.29203
1.96	.29226	.29248	.29270	.29292	.29314	.29336	.29358	.29380	.29403	.29425

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1.97	.29447	.29469	.29491	.29513	.29535	.29557	.29579	.29601	.29623	.29645
1.98	.29667	.29688	.29710	.29732	.29754	.29776	.29798	.29820	.29842	.29863
1.99	.29885	.29907	.29929	.29951	.29973	.29994	.30016	.30038	.30060	.30081
2.00	.30103	.30125	.30146	.30168	.30190	.30211	.30233	.30255	.30276	.30298
2.01	.30320	.30341	.30363	.30384	.30406	.30428	.30449	.30471	.30492	.30514
2.02	.30535	.30557	.30578	.30600	.30621	.30643	.30664	.30685	.30707	.30728
2.03	.30750	.30771	.30792	.30814	.30835	.30856	.30878	.30899	.30920	.30942
2.04	.30963	.30984	.31006	.31027	.31048	.31069	.31091	.31112	.31133	.31154
2.05	.31175	.31197	.31218	.31239	.31260	.31281	.31302	.31323	.31345	.31366
2.06	.31387	.31408	.31429	.31450	.31471	.31492	.31513	.31534	.31555	.31576
2.07	.31597	.31618	.31639	.31660	.31681	.31702	.31723	.31744	.31765	.31785
2.08	.31806	.31827	.31848	.31869	.31890	.31911	.31931	.31952	.31973	.31994
2.09	.32015	.32035	.32056	.32077	.32098	.32118	.32139	.32160	.32181	.32201
2.10	.32222	.32243	.32263	.32284	.32305	.32325	.32346	.32366	.32387	.32408
2.11	.32428	.32449	.32469	.32490	.32510	.32531	.32552	.32572	.32593	.32613
2.12	.32634	.32654	.32675	.32695	.32715	.32736	.32756	.32777	.32797	.32818
2.13	.32838	.32858	.32879	.32899	.32919	.32940	.32960	.32980	.33001	.33021
2.14	.33041	.33062	.33082	.33102	.33122	.33143	.33163	.33183	.33203	.33224
2.15	.33244	.33264	.33284	.33304	.33325	.33345	.33365	.33385	.33405	.33425
2.16	.33445	.33465	.33486	.33506	.33526	.33546	.33566	.33586	.33606	.33626
2.17	.33646	.33666	.33686	.33706	.33726	.33746	.33766	.33786	.33806	.33826
2.18	.33846	.33866	.33885	.33905	.33925	.33945	.33965	.33985	.34005	.34025
2.19	.34044	.34064	.34084	.34104	.34124	.34143	.34163	.34183	.34203	.34223
2.20	.34242	.34262	.34282	.34301	.34321	.34341	.34361	.34380	.34400	.34420
2.21	.34439	.34459	.34479	.34498	.34518	.34537	.34557	.34577	.34596	.34616
2.22	.34635	.34655	.34674	.34694	.34713	.34733	.34753	.34772	.34792	.34811
2.23	.34830	.34850	.34869	.34889	.34908	.34928	.34947	.34967	.34986	.35005
2.24	.35025	.35044	.35064	.35083	.35102	.35122	.35141	.35160	.35180	.35199
2.25	.35218	.35238	.35257	.35276	.35295	.35315	.35334	.35353	.35372	.35392
2.26	.35411	.35430	.35449	.35468	.35488	.35507	.35526	.35545	.35564	.35583
2.27	.35603	.35622	.35641	.35660	.35679	.35698	.35717	.35736	.35755	.35774
2.28	.35793	.35813	.35832	.35851	.35870	.35889	.35908	.35927	.35946	.35965
2.29	.35984	.36003	.36021	.36040	.36059	.36078	.36097	.36116	.36135	.36154
2.30	.36173	.36192	.36211	.36229	.36248	.36267	.36286	.36305	.36324	.36342
2.31	.36361	.36380	.36399	.36418	.36436	.36455	.36474	.36493	.36511	.36530
2.32	.36549	.36568	.36586	.36605	.36624	.36642	.36661	.36680	.36698	.36717
2.33	.36736	.36754	.36773	.36791	.36810	.36829	.36847	.36866	.36884	.36903
2.34	.36922	.36940	.36959	.36977	.36996	.37014	.37033	.37051	.37070	.37088
2.35	.37107	.37125	.37144	.37162	.37181	.37199	.37218	.37236	.37254	.37273
2.36	.37291	.37310	.37328	.37346	.37365	.37383	.37401	.37420	.37438	.37457
2.37	.37475	.37493	.37511	.37530	.37548	.37566	.37585	.37603	.37621	.37639
2.38	.37658	.37676	.37694	.37712	.37731	.37749	.37767	.37785	.37803	.37822
2.39	.37840	.37858	.37876	.37894	.37912	.37931	.37949	.37967	.37985	.38003
2.40	.38021	.38039	.38057	.38075	.38093	.38112	.38130	.38148	.38166	.38184
2.41	.38202	.38220	.38238	.38256	.38274	.38292	.38310	.38328	.38346	.38364
2.42	.38382	.38399	.38417	.38435	.38453	.38471	.38489	.38507	.38525	.38543
2.43	.38561	.38578	.38596	.38614	.38632	.38650	.38668	.38686	.38703	.38721
2.44	.38739	.38757	.38775	.38792	.38810	.38828	.38846	.38863	.38881	.38899
2.45	.38917	.38934	.38952	.38970	.38987	.39005	.39023	.39041	.39058	.39076

	0	1	2	3	4	5	6	7	8	9
2.46	.39094	.39111	.39129	.39146	.39164	.39182	.39199	.39217	.39235	.39252
2.47	.39270	.39287	.39305	.39322	.39340	.39358	.39375	.39393	.39410	.39428
2.48	.39445	.39463	.39480	.39498	.39515	.39533	.39550	.39568	.39585	.39602
2.49	.39620	.39637	.39655	.39672	.39690	.39707	.39724	.39742	.39759	.39777
2.50	.39794	.39811	.39829	.39846	.39863	.39881	.39898	.39915	.39933	.39950
2.51	.39967	.39985	.40002	.40019	.40037	.40054	.40071	.40088	.40106	.40123
2.52	.40140	.40157	.40175	.40192	.40209	.40226	.40243	.40261	.40278	.40295
2.53	.40312	.40329	.40346	.40364	.40381	.40398	.40415	.40432	.40449	.40466
2.54	.40483	.40500	.40518	.40535	.40552	.40569	.40586	.40603	.40620	.40637
2.55	.40654	.40671	.40688	.40705	.40722	.40739	.40756	.40773	.40790	.40807
2.56	.40824	.40841	.40858	.40875	.40892	.40909	.40926	.40943	.40960	.40976
2.57	.40993	.41010	.41027	.41044	.41061	.41078	.41095	.41111	.41128	.41145
2.58	.41162	.41179	.41196	.41212	.41229	.41246	.41263	.41280	.41296	.41313
2.59	.41330	.41347	.41363	.41380	.41397	.41414	.41430	.41447	.41464	.41481
2.60	.41497	.41514	.41531	.41547	.41564	.41581	.41597	.41614	.41631	.41647
2.61	.41664	.41681	.41697	.41714	.41731	.41747	.41764	.41780	.41797	.41814
2.62	.41830	.41847	.41863	.41880	.41896	.41913	.41929	.41946	.41963	.41979
2.63	.41996	.42012	.42029	.42045	.42062	.42078	.42095	.42111	.42127	.42144
2.64	.42160	.42177	.42193	.42210	.42226	.42243	.42259	.42275	.42292	.42308
2.65	.42325	.42341	.42357	.42374	.42390	.42406	.42423	.42439	.42455	.42472
2.66	.42488	.42504	.42521	.42537	.42553	.42570	.42586	.42602	.42619	.42635
2.67	.42651	.42667	.42684	.42700	.42716	.42732	.42749	.42765	.42781	.42797
2.68	.42813	.42830	.42846	.42862	.42878	.42894	.42911	.42927	.42943	.42959
2.69	.42975	.42991	.43008	.43024	.43040	.43056	.43072	.43088	.43104	.43120
2.70	.43136	.43152	.43169	.43185	.43201	.43217	.43233	.43249	.43265	.43281
2.71	.43297	.43313	.43329	.43345	.43361	.43377	.43393	.43409	.43425	.43441
2.72	.43457	.43473	.43489	.43505	.43521	.43537	.43553	.43569	.43584	.43600
2.73	.43616	.43632	.43648	.43664	.43680	.43696	.43712	.43727	.43743	.43759
2.74	.43775	.43791	.43807	.43823	.43838	.43854	.43870	.43886	.43902	.43917
2.75	.43933	.43949	.43965	.43981	.43996	.44012	.44028	.44044	.44059	.44075
2.76	.44091	.44107	.44122	.44138	.44154	.44170	.44185	.44201	.44217	.44232
2.77	.44248	.44264	.44279	.44295	.44311	.44326	.44342	.44358	.44373	.44389
2.78	.44404	.44420	.44436	.44451	.44467	.44483	.44498	.44514	.44529	.44545
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2.80	.44716	.44731	.44747	.44762	.44778	.44793	.44809	.44824	.44840	.44855
2.81	.44871	.44886	.44902	.44917	.44932	.44948	.44963	.44979	.44994	.45010
2.82	.45025	.45040	.45056	.45071	.45086	.45102	.45117	.45133	.45148	.45163
2.83	.45179	.45194	.45209	.45225	.45240	.45255	.45271	.45286	.45301	.45317
2.84	.45332	.45347	.45362	.45378	.45393	.45408	.45423	.45439	.45454	.45469
2.85	.45484	.45500	.45515	.45530	.45545	.45561	.45576	.45591	.45606	.45621
2.86	.45637	.45652	.45667	.45682	.45697	.45712	.45728	.45743	.45758	.45773
2.87	.45788	.45803	.45818	.45834	.45849	.45864	.45879	.45894	.45909	.45924
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2.89	.46090	.46105	.46120	.46135	.46150	.46165	.46180	.46195	.46210	.46225
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2.91	.46389	.46404	.46419	.46434	.46449	.46464	.46479	.46494	.46509	.46523
2.92	.46538	.46553	.46568	.46583	.46598	.46613	.46627	.46642	.46657	.46672
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2.94	.46835	.46850	.46864	.46879	.46894	.46909	.46923	.46938	.46953	.46967

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3.57	.55267	.55279	.55291	.55303	.55315	.55328	.55340	.55352	.55364	.55376
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3.66	.56348	.56360	.56372	.56384	.56396	.56407	.56419	.56431	.56443	.56455
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4.54	.65706	.65715	.65725	.65734	.65744	.65753	.65763	.65772	.65782	.65792
4.55	.65801	.65811	.65820	.65830	.65839	.65849	.65858	.65868	.65877	.65887
4.56	.65896	.65906	.65916	.65925	.65935	.65944	.65954	.65963	.65973	.65982
4.57	.65992	.66001	.66011	.66020	.66030	.66039	.66049	.66058	.66068	.66077
4.58	.66087	.66096	.66106	.66115	.66124	.66134	.66143	.66153	.66162	.66172
4.59	.66181	.66191	.66200	.66210	.66219	.66229	.66238	.66247	.66257	.66266
4.60	.66276	.66285	.66295	.66304	.66314	.66323	.66332	.66342	.66351	.66361
4.61	.66370	.66380	.66389	.66398	.66408	.66417	.66427	.66436	.66445	.66455
4.62	.66464	.66474	.66483	.66492	.66502	.66511	.66521	.66530	.66539	.66549
4.63	.66558	.66567	.66577	.66586	.66596	.66605	.66614	.66624	.66633	.66642
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4.66	.66839	.66848	.66857	.66867	.66876	.66885	.66894	.66904	.66913	.66922
4.67	.66932	.66941	.66950	.66960	.66969	.66978	.66987	.66997	.67006	.67015
4.68	.67025	.67034	.67043	.67052	.67062	.67071	.67080	.67089	.67099	.67108
4.69	.67117	.67127	.67136	.67145	.67154	.67164	.67173	.67182	.67191	.67201
4.70	.67210	.67219	.67228	.67237	.67247	.67256	.67265	.67274	.67284	.67293
4.71	.67302	.67311	.67321	.67330	.67339	.67348	.67357	.67367	.67376	.67385
4.72	.67394	.67403	.67413	.67422	.67431	.67440	.67449	.67459	.67468	.67477
4.73	.67486	.67495	.67504	.67514	.67523	.67532	.67541	.67550	.67560	.67569
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4.76	.67761	.67770	.67779	.67788	.67797	.67806	.67815	.67825	.67834	.67843
4.77	.67852	.67861	.67870	.67879	.67888	.67897	.67906	.67916	.67925	.67934
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4.81	.68215	.68224	.68233	.68242	.68251	.68260	.68269	.68278	.68287	.68296
4.82	.68305	.68314	.68323	.68332	.68341	.68350	.68359	.68368	.68377	.68386
4.83	.68395	.68404	.68413	.68422	.68431	.68440	.68449	.68458	.68467	.68476
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4.85	.68574	.68583	.68592	.68601	.68610	.68619	.68628	.68637	.68646	.68655
4.86	.68664	.68673	.68681	.68690	.68699	.68708	.68717	.68726	.68735	.68744
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4.88	.68842	.68851	.68860	.68869	.68878	.68886	.68895	.68904	.68913	.68922
4.89	.68931	.68940	.68949	.68958	.68966	.68975	.68984	.68993	.69002	.69011
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4.92	.69197	.69205	.69214	.69223	.69232	.69241	.69249	.69258	.69267	.69276
4.93	.69285	.69294	.69302	.69311	.69320	.69329	.69338	.69346	.69355	.69364
4.94	.69373	.69381	.69390	.69399	.69408	.69417	.69425	.69434	.69443	.69452
4.95	.69461	.69469	.69478	.69487	.69496	.69504	.69513	.69522	.69531	.69539
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5.44	.73560	.73568	.73576	.73584	.73592	.73600	.73608	.73616	.73624	.73632
5.45	.73640	.73648	.73656	.73664	.73672	.73679	.73687	.73695	.73703	.73711
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6.29	.79865	.79872	.79879	.79886	.79893	.79900	.79906	.79913	.79920	.79927
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6.32	.80072	.80079	.80085	.80092	.80099	.80106	.80113	.80120	.80127	.80134
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6.42	.80754	.80760	.80767	.80774	.80781	.80787	.80794	.80801	.80808	.80814
6.43	.80821	.80828	.80835	.80841	.80848	.80855	.80862	.80868	.80875	.80882
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6.58	.81823	.81829	.81836	.81842	.81849	.81856	.81862	.81869	.81875	.81882
6.59	.81889	.81895	.81902	.81908	.81915	.81921	.81928	.81935	.81941	.81948
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6.80	.83251	.83257	.83264	.83270	.83276	.83283	.83289	.83296	.83302	.83308
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6.86	.83632	.83639	.83645	.83651	.83658	.83664	.83670	.83677	.83683	.83689

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6.91	.83948	.83954	.83960	.83967	.83973	.83979	.83985	.83992	.83998	.84004
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7.94	.89982	.89988	.89993	.89998	.90004	.90009	.90015	.90020	.90026	.90031
7.95	.90037	.90042	.90048	.90053	.90059	.90064	.90069	.90075	.90080	.90086
7.96	.90091	.90097	.90102	.90108	.90113	.90119	.90124	.90129	.90135	.90140
7.97	.90146	.90151	.90157	.90162	.90168	.90173	.90179	.90184	.90189	.90195
7.98	.90200	.90206	.90211	.90217	.90222	.90227	.90233	.90238	.90244	.90249
7.99	.90255	.90260	.90266	.90271	.90276	.90282	.90287	.90293	.90298	.90304
8.00	.90309	.90314	.90320	.90325	.90331	.90336	.90342	.90347	.90352	.90358
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8.03	.90472	.90477	.90482	.90488	.90493	.90499	.90504	.90509	.90515	.90520
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8.54	.93146	.93151	.93156	.93161	.93166	.93171	.93176	.93181	.93186	.93192
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8.93	.95085	.95090	.95095	.95100	.95105	.95109	.95114	.95119	.95124	.95129
8.94	.95134	.95139	.95143	.95148	.95153	.95158	.95163	.95168	.95173	.95177
8.95	.95182	.95187	.95192	.95197	.95202	.95207	.95211	.95216	.95221	.95226
8.96	.95231	.95236	.95240	.95245	.95250	.95255	.95260	.95265	.95270	.95274
8.97	.95279	.95284	.95289	.95294	.95299	.95303	.95308	.95313	.95318	.95323
8.98	.95328	.95332	.95337	.95342	.95347	.95352	.95357	.95361	.95366	.95371
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9.05	.95665	.95670	.95674	.95679	.95684	.95689	.95694	.95698	.95703	.95708
9.06	.95713	.95718	.95722	.95727	.95732	.95737	.95742	.95746	.95751	.95756
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9.17	.96237	.96242	.96246	.96251	.96256	.96261	.96265	.96270	.96275	.96280
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9.58	.98137	.98141	.98146	.98150	.98155	.98159	.98164	.98168	.98173	.98177
9.59	.98182	.98186	.98191	.98195	.98200	.98204	.98209	.98214	.98218	.98223
9.60	.98227	.98232	.98236	.98241	.98245	.98250	.98254	.98259	.98263	.98268
9.61	.98272	.98277	.98281	.98286	.98290	.98295	.98299	.98304	.98308	.98313
9.62	.98318	.98322	.98327	.98331	.98336	.98340	.98345	.98349	.98354	.98358
9.63	.98363	.98367	.98372	.98376	.98381	.98385	.98390	.98394	.98399	.98403
9.64	.98408	.98412	.98417	.98421	.98426	.98430	.98435	.98439	.98444	.98448
9.65	.98453	.98457	.98462	.98466	.98471	.98475	.98480	.98484	.98489	.98493
9.66	.98498	.98502	.98507	.98511	.98516	.98520	.98525	.98529	.98534	.98538
9.67	.98543	.98547	.98552	.98556	.98561	.98565	.98570	.98574	.98579	.98583
9.68	.98588	.98592	.98597	.98601	.98605	.98610	.98614	.98619	.98623	.98628
9.69	.98632	.98637	.98641	.98646	.98650	.98655	.98659	.98664	.98668	.98673
9.70	.98677	.98682	.98686	.98691	.98695	.98700	.98704	.98709	.98713	.98717
9.71	.98722	.98726	.98731	.98735	.98740	.98744	.98749	.98753	.98758	.98762
9.72	.98767	.98771	.98776	.98780	.98784	.98789	.98793	.98798	.98802	.98807
9.73	.98811	.98816	.98820	.98825	.98829	.98834	.98838	.98843	.98847	.98851
9.74	.98856	.98860	.98865	.98869	.98874	.98878	.98883	.98887	.98892	.98896
9.75	.98900	.98905	.98909	.98914	.98918	.98923	.98927	.98932	.98936	.98941
9.76	.98945	.98949	.98954	.98958	.98963	.98967	.98972	.98976	.98981	.98985
9.77	.98989	.98994	.98998	.99003	.99007	.99012	.99016	.99021	.99025	.99029
9.78	.99034	.99038	.99043	.99047	.99052	.99056	.99061	.99065	.99069	.99074
9.79	.99078	.99083	.99087	.99092	.99096	.99100	.99105	.99109	.99114	.99118
9.80	.99123	.99127	.99131	.99136	.99140	.99145	.99149	.99154	.99158	.99162

	0	1	2	3	4	5	6	7	8	9
9.81	.99167	.99171	.99176	.99180	.99185	.99189	.99193	.99198	.99202	.99207
9.82	.99211	.99216	.99220	.99224	.99229	.99233	.99238	.99242	.99247	.99251
9.83	.99255	.99260	.99264	.99269	.99273	.99277	.99282	.99286	.99291	.99295
9.84	.99300	.99304	.99308	.99313	.99317	.99322	.99326	.99330	.99335	.99339
9.85	.99344	.99348	.99352	.99357	.99361	.99366	.99370	.99374	.99379	.99383
9.86	.99388	.99392	.99396	.99401	.99405	.99410	.99414	.99419	.99423	.99427
9.87	.99432	.99436	.99441	.99445	.99449	.99454	.99458	.99463	.99467	.99471
9.88	.99476	.99480	.99484	.99489	.99493	.99498	.99502	.99506	.99511	.99515
9.89	.99520	.99524	.99528	.99533	.99537	.99542	.99546	.99550	.99555	.99559
9.90	.99564	.99568	.99572	.99577	.99581	.99585	.99590	.99594	.99599	.99603
9.91	.99607	.99612	.99616	.99621	.99625	.99629	.99634	.99638	.99642	.99647
9.92	.99651	.99656	.99660	.99664	.99669	.99673	.99677	.99682	.99686	.99691
9.93	.99695	.99699	.99704	.99708	.99712	.99717	.99721	.99726	.99730	.99734
9.94	.99739	.99743	.99747	.99752	.99756	.99760	.99765	.99769	.99774	.99778
9.95	.99782	.99787	.99791	.99795	.99800	.99804	.99808	.99813	.99817	.99822
9.96	.99826	.99830	.99835	.99839	.99843	.99848	.99852	.99856	.99861	.99865
9.97	.99870	.99874	.99878	.99883	.99887	.99891	.99896	.99900	.99904	.99909
9.98	.99913	.99917	.99922	.99926	.99930	.99935	.99939	.99944	.99948	.99952
9.99	.99957	.99961	.99965	.99970	.99974	.99978	.99983	.99987	.99991	.99996

2 Decimal Anti-Logarithms

	0	1	2	3	4	5	6	7	8	9
.000	1.0000	1.0002	1.0005	1.0007	1.0009	1.0012	1.0014	1.0016	1.0018	1.0021
.001	1.0023	1.0025	1.0028	1.0030	1.0032	1.0035	1.0037	1.0039	1.0042	1.0044
.002	1.0046	1.0048	1.0051	1.0053	1.0055	1.0058	1.0060	1.0062	1.0065	1.0067
.003	1.0069	1.0072	1.0074	1.0076	1.0079	1.0081	1.0083	1.0086	1.0088	1.0090
.004	1.0093	1.0095	1.0097	1.0100	1.0102	1.0104	1.0106	1.0109	1.0111	1.0113
.005	1.0116	1.0118	1.0120	1.0123	1.0125	1.0127	1.0130	1.0132	1.0134	1.0137
.006	1.0139	1.0141	1.0144	1.0146	1.0148	1.0151	1.0153	1.0155	1.0158	1.0160
.007	1.0162	1.0165	1.0167	1.0170	1.0172	1.0174	1.0177	1.0179	1.0181	1.0184
.008	1.0186	1.0188	1.0191	1.0193	1.0195	1.0198	1.0200	1.0202	1.0205	1.0207
.009	1.0209	1.0212	1.0214	1.0216	1.0219	1.0221	1.0224	1.0226	1.0228	1.0231
.010	1.0233	1.0235	1.0238	1.0240	1.0242	1.0245	1.0247	1.0249	1.0252	1.0254
.011	1.0257	1.0259	1.0261	1.0264	1.0266	1.0268	1.0271	1.0273	1.0275	1.0278
.012	1.0280	1.0283	1.0285	1.0287	1.0290	1.0292	1.0294	1.0297	1.0299	1.0301
.013	1.0304	1.0306	1.0309	1.0311	1.0313	1.0316	1.0318	1.0320	1.0323	1.0325
.014	1.0328	1.0330	1.0332	1.0335	1.0337	1.0340	1.0342	1.0344	1.0347	1.0349
.015	1.0351	1.0354	1.0356	1.0359	1.0361	1.0363	1.0366	1.0368	1.0371	1.0373
.016	1.0375	1.0378	1.0380	1.0382	1.0385	1.0387	1.0390	1.0392	1.0394	1.0397
.017	1.0399	1.0402	1.0404	1.0406	1.0409	1.0411	1.0414	1.0416	1.0418	1.0421
.018	1.0423	1.0426	1.0428	1.0430	1.0433	1.0435	1.0438	1.0440	1.0442	1.0445
.019	1.0447	1.0450	1.0452	1.0454	1.0457	1.0459	1.0462	1.0464	1.0466	1.0469
.020	1.0471	1.0474	1.0476	1.0479	1.0481	1.0483	1.0486	1.0488	1.0491	1.0493
.021	1.0495	1.0498	1.0500	1.0503	1.0505	1.0508	1.0510	1.0512	1.0515	1.0517
.022	1.0520	1.0522	1.0524	1.0527	1.0529	1.0532	1.0534	1.0537	1.0539	1.0541
.023	1.0544	1.0546	1.0549	1.0551	1.0554	1.0556	1.0558	1.0561	1.0563	1.0566
.024	1.0568	1.0571	1.0573	1.0575	1.0578	1.0580	1.0583	1.0585	1.0588	1.0590
.025	1.0593	1.0595	1.0597	1.0600	1.0602	1.0605	1.0607	1.0610	1.0612	1.0615
.026	1.0617	1.0619	1.0622	1.0624	1.0627	1.0629	1.0632	1.0634	1.0637	1.0639
.027	1.0641	1.0644	1.0646	1.0649	1.0651	1.0654	1.0656	1.0659	1.0661	1.0664
.028	1.0666	1.0668	1.0671	1.0673	1.0676	1.0678	1.0681	1.0683	1.0686	1.0688
.029	1.0691	1.0693	1.0695	1.0698	1.0700	1.0703	1.0705	1.0708	1.0710	1.0713
.030	1.0715	1.0718	1.0720	1.0723	1.0725	1.0728	1.0730	1.0732	1.0735	1.0737
.031	1.0740	1.0742	1.0745	1.0747	1.0750	1.0752	1.0755	1.0757	1.0760	1.0762
.032	1.0765	1.0767	1.0770	1.0772	1.0775	1.0777	1.0780	1.0782	1.0784	1.0787
.033	1.0789	1.0792	1.0794	1.0797	1.0799	1.0802	1.0804	1.0807	1.0809	1.0812
.034	1.0814	1.0817	1.0819	1.0822	1.0824	1.0827	1.0829	1.0832	1.0834	1.0837
.035	1.0839	1.0842	1.0844	1.0847	1.0849	1.0852	1.0854	1.0857	1.0859	1.0862
.036	1.0864	1.0867	1.0869	1.0872	1.0874	1.0877	1.0879	1.0882	1.0884	1.0887
.037	1.0889	1.0892	1.0894	1.0897	1.0899	1.0902	1.0904	1.0907	1.0909	1.0912
.038	1.0914	1.0917	1.0919	1.0922	1.0924	1.0927	1.0929	1.0932	1.0935	1.0937
.039	1.0940	1.0942	1.0945	1.0947	1.0950	1.0952	1.0955	1.0957	1.0960	1.0962
.040	1.0965	1.0967	1.0970	1.0972	1.0975	1.0977	1.0980	1.0982	1.0985	1.0988
.041	1.0990	1.0993	1.0995	1.0998	1.1000	1.1003	1.1005	1.1008	1.1010	1.1013
.042	1.1015	1.1018	1.1020	1.1023	1.1026	1.1028	1.1031	1.1033	1.1036	1.1038
.043	1.1041	1.1043	1.1046	1.1048	1.1051	1.1054	1.1056	1.1059	1.1061	1.1064
.044	1.1066	1.1069	1.1071	1.1074	1.1076	1.1079	1.1082	1.1084	1.1087	1.1089
.045	1.1092	1.1094	1.1097	1.1099	1.1102	1.1105	1.1107	1.1110	1.1112	1.1115
.046	1.1117	1.1120	1.1122	1.1125	1.1128	1.1130	1.1133	1.1135	1.1138	1.1140
.047	1.1143	1.1146	1.1148	1.1151	1.1153	1.1156	1.1158	1.1161	1.1163	1.1166

	0	1	2	3	4	5	6	7	8	9
.048	1.1169	1.1171	1.1174	1.1176	1.1179	1.1181	1.1184	1.1187	1.1189	1.1192
.049	1.1194	1.1197	1.1200	1.1202	1.1205	1.1207	1.1210	1.1212	1.1215	1.1218
.050	1.1220	1.1223	1.1225	1.1228	1.1231	1.1233	1.1236	1.1238	1.1241	1.1243
.051	1.1246	1.1249	1.1251	1.1254	1.1256	1.1259	1.1262	1.1264	1.1267	1.1269
.052	1.1272	1.1275	1.1277	1.1280	1.1282	1.1285	1.1288	1.1290	1.1293	1.1295
.053	1.1298	1.1301	1.1303	1.1306	1.1308	1.1311	1.1314	1.1316	1.1319	1.1321
.054	1.1324	1.1327	1.1329	1.1332	1.1334	1.1337	1.1340	1.1342	1.1345	1.1347
.055	1.1350	1.1353	1.1355	1.1358	1.1361	1.1363	1.1366	1.1368	1.1371	1.1374
.056	1.1376	1.1379	1.1382	1.1384	1.1387	1.1389	1.1392	1.1395	1.1397	1.1400
.057	1.1402	1.1405	1.1408	1.1410	1.1413	1.1416	1.1418	1.1421	1.1424	1.1426
.058	1.1429	1.1431	1.1434	1.1437	1.1439	1.1442	1.1445	1.1447	1.1450	1.1452
.059	1.1455	1.1458	1.1460	1.1463	1.1466	1.1468	1.1471	1.1474	1.1476	1.1479
.060	1.1482	1.1484	1.1487	1.1489	1.1492	1.1495	1.1497	1.1500	1.1503	1.1505
.061	1.1508	1.1511	1.1513	1.1516	1.1519	1.1521	1.1524	1.1527	1.1529	1.1532
.062	1.1535	1.1537	1.1540	1.1543	1.1545	1.1548	1.1550	1.1553	1.1556	1.1558
.063	1.1561	1.1564	1.1566	1.1569	1.1572	1.1574	1.1577	1.1580	1.1582	1.1585
.064	1.1588	1.1590	1.1593	1.1596	1.1598	1.1601	1.1604	1.1606	1.1609	1.1612
.065	1.1614	1.1617	1.1620	1.1623	1.1625	1.1628	1.1631	1.1633	1.1636	1.1639
.066	1.1641	1.1644	1.1647	1.1649	1.1652	1.1655	1.1657	1.1660	1.1663	1.1665
.067	1.1668	1.1671	1.1673	1.1676	1.1679	1.1682	1.1684	1.1687	1.1690	1.1692
.068	1.1695	1.1698	1.1700	1.1703	1.1706	1.1708	1.1711	1.1714	1.1717	1.1719
.069	1.1722	1.1725	1.1727	1.1730	1.1733	1.1735	1.1738	1.1741	1.1744	1.1746
.070	1.1749	1.1752	1.1754	1.1757	1.1760	1.1763	1.1765	1.1768	1.1771	1.1773
.071	1.1776	1.1779	1.1781	1.1784	1.1787	1.1790	1.1792	1.1795	1.1798	1.1800
.072	1.1803	1.1806	1.1809	1.1811	1.1814	1.1817	1.1820	1.1822	1.1825	1.1828
.073	1.1830	1.1833	1.1836	1.1839	1.1841	1.1844	1.1847	1.1849	1.1852	1.1855
.074	1.1858	1.1860	1.1863	1.1866	1.1869	1.1871	1.1874	1.1877	1.1880	1.1882
.075	1.1885	1.1888	1.1890	1.1893	1.1896	1.1899	1.1901	1.1904	1.1907	1.1910
.076	1.1912	1.1915	1.1918	1.1921	1.1923	1.1926	1.1929	1.1932	1.1934	1.1937
.077	1.1940	1.1943	1.1945	1.1948	1.1951	1.1954	1.1956	1.1959	1.1962	1.1965
.078	1.1967	1.1970	1.1973	1.1976	1.1978	1.1981	1.1984	1.1987	1.1989	1.1992
.079	1.1995	1.1998	1.2001	1.2003	1.2006	1.2009	1.2012	1.2014	1.2017	1.2020
.080	1.2023	1.2025	1.2028	1.2031	1.2034	1.2036	1.2039	1.2042	1.2045	1.2048
.081	1.2050	1.2053	1.2056	1.2059	1.2061	1.2064	1.2067	1.2070	1.2073	1.2075
.082	1.2078	1.2081	1.2084	1.2086	1.2089	1.2092	1.2095	1.2098	1.2100	1.2103
.083	1.2106	1.2109	1.2112	1.2114	1.2117	1.2120	1.2123	1.2126	1.2128	1.2131
.084	1.2134	1.2137	1.2139	1.2142	1.2145	1.2148	1.2151	1.2153	1.2156	1.2159
.085	1.2162	1.2165	1.2167	1.2170	1.2173	1.2176	1.2179	1.2181	1.2184	1.2187
.086	1.2190	1.2193	1.2196	1.2198	1.2201	1.2204	1.2207	1.2210	1.2212	1.2215
.087	1.2218	1.2221	1.2224	1.2226	1.2229	1.2232	1.2235	1.2238	1.2241	1.2243
.088	1.2246	1.2249	1.2252	1.2255	1.2257	1.2260	1.2263	1.2266	1.2269	1.2272
.089	1.2274	1.2277	1.2280	1.2283	1.2286	1.2289	1.2291	1.2294	1.2297	1.2300
.090	1.2303	1.2306	1.2308	1.2311	1.2314	1.2317	1.2320	1.2323	1.2325	1.2328
.091	1.2331	1.2334	1.2337	1.2340	1.2342	1.2345	1.2348	1.2351	1.2354	1.2357
.092	1.2359	1.2362	1.2365	1.2368	1.2371	1.2374	1.2377	1.2379	1.2382	1.2385
.093	1.2388	1.2391	1.2394	1.2397	1.2399	1.2402	1.2405	1.2408	1.2411	1.2414
.094	1.2417	1.2419	1.2422	1.2425	1.2428	1.2431	1.2434	1.2437	1.2439	1.2442
.095	1.2445	1.2448	1.2451	1.2454	1.2457	1.2459	1.2462	1.2465	1.2468	1.2471
.096	1.2474	1.2477	1.2480	1.2482	1.2485	1.2488	1.2491	1.2494	1.2497	1.2500

	0	1	2	3	4	5	6	7	8	9
.097	1.2503	1.2505	1.2508	1.2511	1.2514	1.2517	1.2520	1.2523	1.2526	1.2529
.098	1.2531	1.2534	1.2537	1.2540	1.2543	1.2546	1.2549	1.2552	1.2555	1.2557
.099	1.2560	1.2563	1.2566	1.2569	1.2572	1.2575	1.2578	1.2581	1.2583	1.2586
.100	1.2589	1.2592	1.2595	1.2598	1.2601	1.2604	1.2607	1.2610	1.2612	1.2615
.101	1.2618	1.2621	1.2624	1.2627	1.2630	1.2633	1.2636	1.2639	1.2642	1.2644
.102	1.2647	1.2650	1.2653	1.2656	1.2659	1.2662	1.2665	1.2668	1.2671	1.2674
.103	1.2677	1.2679	1.2682	1.2685	1.2688	1.2691	1.2694	1.2697	1.2700	1.2703
.104	1.2706	1.2709	1.2712	1.2715	1.2717	1.2720	1.2723	1.2726	1.2729	1.2732
.105	1.2735	1.2738	1.2741	1.2744	1.2747	1.2750	1.2753	1.2756	1.2759	1.2761
.106	1.2764	1.2767	1.2770	1.2773	1.2776	1.2779	1.2782	1.2785	1.2788	1.2791
.107	1.2794	1.2797	1.2800	1.2803	1.2806	1.2809	1.2812	1.2814	1.2817	1.2820
.108	1.2823	1.2826	1.2829	1.2832	1.2835	1.2838	1.2841	1.2844	1.2847	1.2850
.109	1.2853	1.2856	1.2859	1.2862	1.2865	1.2868	1.2871	1.2874	1.2877	1.2880
.110	1.2882	1.2885	1.2888	1.2891	1.2894	1.2897	1.2900	1.2903	1.2906	1.2909
.111	1.2912	1.2915	1.2918	1.2921	1.2924	1.2927	1.2930	1.2933	1.2936	1.2939
.112	1.2942	1.2945	1.2948	1.2951	1.2954	1.2957	1.2960	1.2963	1.2966	1.2969
.113	1.2972	1.2975	1.2978	1.2981	1.2984	1.2987	1.2990	1.2993	1.2996	1.2999
.114	1.3002	1.3005	1.3008	1.3011	1.3014	1.3017	1.3020	1.3023	1.3026	1.3029
.115	1.3032	1.3035	1.3038	1.3041	1.3044	1.3047	1.3050	1.3053	1.3056	1.3059
.116	1.3062	1.3065	1.3068	1.3071	1.3074	1.3077	1.3080	1.3083	1.3086	1.3089
.117	1.3092	1.3095	1.3098	1.3101	1.3104	1.3107	1.3110	1.3113	1.3116	1.3119
.118	1.3122	1.3125	1.3128	1.3131	1.3134	1.3137	1.3140	1.3143	1.3146	1.3149
.119	1.3152	1.3155	1.3158	1.3161	1.3164	1.3167	1.3170	1.3173	1.3176	1.3180
.120	1.3183	1.3186	1.3189	1.3192	1.3195	1.3198	1.3201	1.3204	1.3207	1.3210
.121	1.3213	1.3216	1.3219	1.3222	1.3225	1.3228	1.3231	1.3234	1.3237	1.3240
.122	1.3243	1.3246	1.3250	1.3253	1.3256	1.3259	1.3262	1.3265	1.3268	1.3271
.123	1.3274	1.3277	1.3280	1.3283	1.3286	1.3289	1.3292	1.3295	1.3298	1.3301
.124	1.3305	1.3308	1.3311	1.3314	1.3317	1.3320	1.3323	1.3326	1.3329	1.3332
.125	1.3335	1.3338	1.3341	1.3344	1.3348	1.3351	1.3354	1.3357	1.3360	1.3363
.126	1.3366	1.3369	1.3372	1.3375	1.3378	1.3381	1.3384	1.3388	1.3391	1.3394
.127	1.3397	1.3400	1.3403	1.3406	1.3409	1.3412	1.3415	1.3418	1.3421	1.3425
.128	1.3428	1.3431	1.3434	1.3437	1.3440	1.3443	1.3446	1.3449	1.3452	1.3456
.129	1.3459	1.3462	1.3465	1.3468	1.3471	1.3474	1.3477	1.3480	1.3483	1.3487
.130	1.3490	1.3493	1.3496	1.3499	1.3502	1.3505	1.3508	1.3511	1.3515	1.3518
.131	1.3521	1.3524	1.3527	1.3530	1.3533	1.3536	1.3539	1.3543	1.3546	1.3549
.132	1.3552	1.3555	1.3558	1.3561	1.3564	1.3568	1.3571	1.3574	1.3577	1.3580
.133	1.3583	1.3586	1.3589	1.3593	1.3596	1.3599	1.3602	1.3605	1.3608	1.3611
.134	1.3614	1.3618	1.3621	1.3624	1.3627	1.3630	1.3633	1.3636	1.3640	1.3643
.135	1.3646	1.3649	1.3652	1.3655	1.3658	1.3662	1.3665	1.3668	1.3671	1.3674
.136	1.3677	1.3680	1.3684	1.3687	1.3690	1.3693	1.3696	1.3699	1.3703	1.3706
.137	1.3709	1.3712	1.3715	1.3718	1.3721	1.3725	1.3728	1.3731	1.3734	1.3737
.138	1.3740	1.3744	1.3747	1.3750	1.3753	1.3756	1.3759	1.3763	1.3766	1.3769
.139	1.3772	1.3775	1.3778	1.3782	1.3785	1.3788	1.3791	1.3794	1.3797	1.3801
.140	1.3804	1.3807	1.3810	1.3813	1.3817	1.3820	1.3823	1.3826	1.3829	1.3832
.141	1.3836	1.3839	1.3842	1.3845	1.3848	1.3852	1.3855	1.3858	1.3861	1.3864
.142	1.3868	1.3871	1.3874	1.3877	1.3880	1.3884	1.3887	1.3890	1.3893	1.3896
.143	1.3900	1.3903	1.3906	1.3909	1.3912	1.3916	1.3919	1.3922	1.3925	1.3928
.144	1.3932	1.3935	1.3938	1.3941	1.3944	1.3948	1.3951	1.3954	1.3957	1.3960
.145	1.3964	1.3967	1.3970	1.3973	1.3977	1.3980	1.3983	1.3986	1.3989	1.3993

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.146	1.3996	1.3999	1.4002	1.4006	1.4009	1.4012	1.4015	1.4018	1.4022	1.4025
.147	1.4028	1.4031	1.4035	1.4038	1.4041	1.4044	1.4048	1.4051	1.4054	1.4057
.148	1.4060	1.4064	1.4067	1.4070	1.4073	1.4077	1.4080	1.4083	1.4086	1.4090
.149	1.4093	1.4096	1.4099	1.4103	1.4106	1.4109	1.4112	1.4116	1.4119	1.4122
.150	1.4125	1.4129	1.4132	1.4135	1.4138	1.4142	1.4145	1.4148	1.4151	1.4155
.151	1.4158	1.4161	1.4164	1.4168	1.4171	1.4174	1.4178	1.4181	1.4184	1.4187
.152	1.4191	1.4194	1.4197	1.4200	1.4204	1.4207	1.4210	1.4213	1.4217	1.4220
.153	1.4223	1.4227	1.4230	1.4233	1.4236	1.4240	1.4243	1.4246	1.4250	1.4253
.154	1.4256	1.4259	1.4263	1.4266	1.4269	1.4272	1.4276	1.4279	1.4282	1.4286
.155	1.4289	1.4292	1.4296	1.4299	1.4302	1.4305	1.4309	1.4312	1.4315	1.4319
.156	1.4322	1.4325	1.4328	1.4332	1.4335	1.4338	1.4342	1.4345	1.4348	1.4352
.157	1.4355	1.4358	1.4362	1.4365	1.4368	1.4371	1.4375	1.4378	1.4381	1.4385
.158	1.4388	1.4391	1.4395	1.4398	1.4401	1.4405	1.4408	1.4411	1.4415	1.4418
.159	1.4421	1.4424	1.4428	1.4431	1.4434	1.4438	1.4441	1.4444	1.4448	1.4451
.160	1.4454	1.4458	1.4461	1.4464	1.4468	1.4471	1.4474	1.4478	1.4481	1.4484
.161	1.4488	1.4491	1.4494	1.4498	1.4501	1.4504	1.4508	1.4511	1.4514	1.4518
.162	1.4521	1.4524	1.4528	1.4531	1.4534	1.4538	1.4541	1.4545	1.4548	1.4551
.163	1.4555	1.4558	1.4561	1.4565	1.4568	1.4571	1.4575	1.4578	1.4581	1.4585
.164	1.4588	1.4592	1.4595	1.4598	1.4602	1.4605	1.4608	1.4612	1.4615	1.4618
.165	1.4622	1.4625	1.4629	1.4632	1.4635	1.4639	1.4642	1.4645	1.4649	1.4652
.166	1.4655	1.4659	1.4662	1.4666	1.4669	1.4672	1.4676	1.4679	1.4682	1.4686
.167	1.4689	1.4693	1.4696	1.4699	1.4703	1.4706	1.4710	1.4713	1.4716	1.4720
.168	1.4723	1.4727	1.4730	1.4733	1.4737	1.4740	1.4743	1.4747	1.4750	1.4754
.169	1.4757	1.4760	1.4764	1.4767	1.4771	1.4774	1.4777	1.4781	1.4784	1.4788
.170	1.4791	1.4794	1.4798	1.4801	1.4805	1.4808	1.4812	1.4815	1.4818	1.4822
.171	1.4825	1.4829	1.4832	1.4835	1.4839	1.4842	1.4846	1.4849	1.4853	1.4856
.172	1.4859	1.4863	1.4866	1.4870	1.4873	1.4876	1.4880	1.4883	1.4887	1.4890
.173	1.4894	1.4897	1.4900	1.4904	1.4907	1.4911	1.4914	1.4918	1.4921	1.4925
.174	1.4928	1.4931	1.4935	1.4938	1.4942	1.4945	1.4949	1.4952	1.4955	1.4959
.175	1.4962	1.4966	1.4969	1.4973	1.4976	1.4980	1.4983	1.4986	1.4990	1.4993
.176	1.4997	1.5000	1.5004	1.5007	1.5011	1.5014	1.5018	1.5021	1.5024	1.5028
.177	1.5031	1.5035	1.5038	1.5042	1.5045	1.5049	1.5052	1.5056	1.5059	1.5063
.178	1.5066	1.5070	1.5073	1.5076	1.5080	1.5083	1.5087	1.5090	1.5094	1.5097
.179	1.5101	1.5104	1.5108	1.5111	1.5115	1.5118	1.5122	1.5125	1.5129	1.5132
.180	1.5136	1.5139	1.5143	1.5146	1.5150	1.5153	1.5157	1.5160	1.5164	1.5167
.181	1.5171	1.5174	1.5177	1.5181	1.5184	1.5188	1.5191	1.5195	1.5198	1.5202
.182	1.5205	1.5209	1.5212	1.5216	1.5219	1.5223	1.5226	1.5230	1.5234	1.5237
.183	1.5241	1.5244	1.5248	1.5251	1.5255	1.5258	1.5262	1.5265	1.5269	1.5272
.184	1.5276	1.5279	1.5283	1.5286	1.5290	1.5293	1.5297	1.5300	1.5304	1.5307
.185	1.5311	1.5314	1.5318	1.5321	1.5325	1.5329	1.5332	1.5336	1.5339	1.5343
.186	1.5346	1.5350	1.5353	1.5357	1.5360	1.5364	1.5367	1.5371	1.5374	1.5378
.187	1.5382	1.5385	1.5389	1.5392	1.5396	1.5399	1.5403	1.5406	1.5410	1.5413
.188	1.5417	1.5421	1.5424	1.5428	1.5431	1.5435	1.5438	1.5442	1.5445	1.5449
.189	1.5453	1.5456	1.5460	1.5463	1.5467	1.5470	1.5474	1.5477	1.5481	1.5485
.190	1.5488	1.5492	1.5495	1.5499	1.5502	1.5506	1.5510	1.5513	1.5517	1.5520
.191	1.5524	1.5527	1.5531	1.5535	1.5538	1.5542	1.5545	1.5549	1.5552	1.5556
.192	1.5560	1.5563	1.5567	1.5570	1.5574	1.5578	1.5581	1.5585	1.5588	1.5592
.193	1.5596	1.5599	1.5603	1.5606	1.5610	1.5613	1.5617	1.5621	1.5624	1.5628
.194	1.5631	1.5635	1.5639	1.5642	1.5646	1.5649	1.5653	1.5657	1.5660	1.5664

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.195	1.5668	1.5671	1.5675	1.5678	1.5682	1.5686	1.5689	1.5693	1.5696	1.5700
.196	1.5704	1.5707	1.5711	1.5714	1.5718	1.5722	1.5725	1.5729	1.5733	1.5736
.197	1.5740	1.5743	1.5747	1.5751	1.5754	1.5758	1.5762	1.5765	1.5769	1.5772
.198	1.5776	1.5780	1.5783	1.5787	1.5791	1.5794	1.5798	1.5802	1.5805	1.5809
.199	1.5812	1.5816	1.5820	1.5823	1.5827	1.5831	1.5834	1.5838	1.5842	1.5845
.200	1.5849	1.5853	1.5856	1.5860	1.5864	1.5867	1.5871	1.5874	1.5878	1.5882
.201	1.5885	1.5889	1.5893	1.5896	1.5900	1.5904	1.5907	1.5911	1.5915	1.5918
.202	1.5922	1.5926	1.5929	1.5933	1.5937	1.5940	1.5944	1.5948	1.5951	1.5955
.203	1.5959	1.5962	1.5966	1.5970	1.5973	1.5977	1.5981	1.5985	1.5988	1.5992
.204	1.5996	1.5999	1.6003	1.6007	1.6010	1.6014	1.6018	1.6021	1.6025	1.6029
.205	1.6032	1.6036	1.6040	1.6044	1.6047	1.6051	1.6055	1.6058	1.6062	1.6066
.206	1.6069	1.6073	1.6077	1.6081	1.6084	1.6088	1.6092	1.6095	1.6099	1.6103
.207	1.6106	1.6110	1.6114	1.6118	1.6121	1.6125	1.6129	1.6132	1.6136	1.6140
.208	1.6144	1.6147	1.6151	1.6155	1.6158	1.6162	1.6166	1.6170	1.6173	1.6177
.209	1.6181	1.6185	1.6188	1.6192	1.6196	1.6199	1.6203	1.6207	1.6211	1.6214
.210	1.6218	1.6222	1.6226	1.6229	1.6233	1.6237	1.6241	1.6244	1.6248	1.6252
.211	1.6255	1.6259	1.6263	1.6267	1.6270	1.6274	1.6278	1.6282	1.6285	1.6289
.212	1.6293	1.6297	1.6300	1.6304	1.6308	1.6312	1.6315	1.6319	1.6323	1.6327
.213	1.6331	1.6334	1.6338	1.6342	1.6346	1.6349	1.6353	1.6357	1.6361	1.6364
.214	1.6368	1.6372	1.6376	1.6379	1.6383	1.6387	1.6391	1.6395	1.6398	1.6402
.215	1.6406	1.6410	1.6413	1.6417	1.6421	1.6425	1.6429	1.6432	1.6436	1.6440
.216	1.6444	1.6448	1.6451	1.6455	1.6459	1.6463	1.6466	1.6470	1.6474	1.6478
.217	1.6482	1.6485	1.6489	1.6493	1.6497	1.6501	1.6504	1.6508	1.6512	1.6516
.218	1.6520	1.6523	1.6527	1.6531	1.6535	1.6539	1.6542	1.6546	1.6550	1.6554
.219	1.6558	1.6562	1.6565	1.6569	1.6573	1.6577	1.6581	1.6584	1.6588	1.6592
.220	1.6596	1.6600	1.6604	1.6607	1.6611	1.6615	1.6619	1.6623	1.6626	1.6630
.221	1.6634	1.6638	1.6642	1.6646	1.6649	1.6653	1.6657	1.6661	1.6665	1.6669
.222	1.6672	1.6676	1.6680	1.6684	1.6688	1.6692	1.6696	1.6699	1.6703	1.6707
.223	1.6711	1.6715	1.6719	1.6722	1.6726	1.6730	1.6734	1.6738	1.6742	1.6746
.224	1.6749	1.6753	1.6757	1.6761	1.6765	1.6769	1.6773	1.6776	1.6780	1.6784
.225	1.6788	1.6792	1.6796	1.6800	1.6804	1.6807	1.6811	1.6815	1.6819	1.6823
.226	1.6827	1.6831	1.6834	1.6838	1.6842	1.6846	1.6850	1.6854	1.6858	1.6862
.227	1.6866	1.6869	1.6873	1.6877	1.6881	1.6885	1.6889	1.6893	1.6897	1.6901
.228	1.6904	1.6908	1.6912	1.6916	1.6920	1.6924	1.6928	1.6932	1.6936	1.6939
.229	1.6943	1.6947	1.6951	1.6955	1.6959	1.6963	1.6967	1.6971	1.6975	1.6979
.230	1.6982	1.6986	1.6990	1.6994	1.6998	1.7002	1.7006	1.7010	1.7014	1.7018
.231	1.7022	1.7026	1.7029	1.7033	1.7037	1.7041	1.7045	1.7049	1.7053	1.7057
.232	1.7061	1.7065	1.7069	1.7073	1.7077	1.7080	1.7084	1.7088	1.7092	1.7096
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.234	1.7140	1.7144	1.7147	1.7151	1.7155	1.7159	1.7163	1.7167	1.7171	1.7175
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.236	1.7219	1.7223	1.7227	1.7231	1.7235	1.7239	1.7242	1.7246	1.7250	1.7254
.237	1.7258	1.7262	1.7266	1.7270	1.7274	1.7278	1.7282	1.7286	1.7290	1.7294
.238	1.7298	1.7302	1.7306	1.7310	1.7314	1.7318	1.7322	1.7326	1.7330	1.7334
.239	1.7338	1.7342	1.7346	1.7350	1.7354	1.7358	1.7362	1.7366	1.7370	1.7374
.240	1.7378	1.7382	1.7386	1.7390	1.7394	1.7398	1.7402	1.7406	1.7410	1.7414
.241	1.7418	1.7422	1.7426	1.7430	1.7434	1.7438	1.7442	1.7446	1.7450	1.7454
.242	1.7458	1.7462	1.7466	1.7470	1.7474	1.7478	1.7482	1.7486	1.7490	1.7494
.243	1.7498	1.7502	1.7507	1.7511	1.7515	1.7519	1.7523	1.7527	1.7531	1.7535

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.244	1.7539	1.7543	1.7547	1.7551	1.7555	1.7559	1.7563	1.7567	1.7571	1.7575
.245	1.7579	1.7583	1.7587	1.7591	1.7595	1.7599	1.7604	1.7608	1.7612	1.7616
.246	1.7620	1.7624	1.7628	1.7632	1.7636	1.7640	1.7644	1.7648	1.7652	1.7656
.247	1.7660	1.7664	1.7669	1.7673	1.7677	1.7681	1.7685	1.7689	1.7693	1.7697
.248	1.7701	1.7705	1.7709	1.7713	1.7717	1.7721	1.7726	1.7730	1.7734	1.7738
.249	1.7742	1.7746	1.7750	1.7754	1.7758	1.7762	1.7766	1.7771	1.7775	1.7779
.250	1.7783	1.7787	1.7791	1.7795	1.7799	1.7803	1.7807	1.7811	1.7816	1.7820
.251	1.7824	1.7828	1.7832	1.7836	1.7840	1.7844	1.7848	1.7853	1.7857	1.7861
.252	1.7865	1.7869	1.7873	1.7877	1.7881	1.7885	1.7890	1.7894	1.7898	1.7902
.253	1.7906	1.7910	1.7914	1.7918	1.7923	1.7927	1.7931	1.7935	1.7939	1.7943
.254	1.7947	1.7951	1.7956	1.7960	1.7964	1.7968	1.7972	1.7976	1.7980	1.7985
.255	1.7989	1.7993	1.7997	1.8001	1.8005	1.8009	1.8014	1.8018	1.8022	1.8026
.256	1.8030	1.8034	1.8038	1.8043	1.8047	1.8051	1.8055	1.8059	1.8063	1.8068
.257	1.8072	1.8076	1.8080	1.8084	1.8088	1.8093	1.8097	1.8101	1.8105	1.8109
.258	1.8113	1.8118	1.8122	1.8126	1.8130	1.8134	1.8138	1.8143	1.8147	1.8151
.259	1.8155	1.8159	1.8164	1.8168	1.8172	1.8176	1.8180	1.8184	1.8189	1.8193
.260	1.8197	1.8201	1.8205	1.8210	1.8214	1.8218	1.8222	1.8226	1.8231	1.8235
.261	1.8239	1.8243	1.8247	1.8252	1.8256	1.8260	1.8264	1.8268	1.8273	1.8277
.262	1.8281	1.8285	1.8289	1.8294	1.8298	1.8302	1.8306	1.8310	1.8315	1.8319
.263	1.8323	1.8327	1.8332	1.8336	1.8340	1.8344	1.8348	1.8353	1.8357	1.8361
.264	1.8365	1.8370	1.8374	1.8378	1.8382	1.8387	1.8391	1.8395	1.8399	1.8403
.265	1.8408	1.8412	1.8416	1.8420	1.8425	1.8429	1.8433	1.8437	1.8442	1.8446
.266	1.8450	1.8454	1.8459	1.8463	1.8467	1.8471	1.8476	1.8480	1.8484	1.8488
.267	1.8493	1.8497	1.8501	1.8505	1.8510	1.8514	1.8518	1.8523	1.8527	1.8531
.268	1.8535	1.8540	1.8544	1.8548	1.8552	1.8557	1.8561	1.8565	1.8569	1.8574
.269	1.8578	1.8582	1.8587	1.8591	1.8595	1.8599	1.8604	1.8608	1.8612	1.8617
.270	1.8621	1.8625	1.8629	1.8634	1.8638	1.8642	1.8647	1.8651	1.8655	1.8659
.271	1.8664	1.8668	1.8672	1.8677	1.8681	1.8685	1.8690	1.8694	1.8698	1.8703
.272	1.8707	1.8711	1.8715	1.8720	1.8724	1.8728	1.8733	1.8737	1.8741	1.8746
.273	1.8750	1.8754	1.8759	1.8763	1.8767	1.8772	1.8776	1.8780	1.8785	1.8789
.274	1.8793	1.8797	1.8802	1.8806	1.8810	1.8815	1.8819	1.8823	1.8828	1.8832
.275	1.8836	1.8841	1.8845	1.8850	1.8854	1.8858	1.8863	1.8867	1.8871	1.8876
.276	1.8880	1.8884	1.8889	1.8893	1.8897	1.8902	1.8906	1.8910	1.8915	1.8919
.277	1.8923	1.8928	1.8932	1.8937	1.8941	1.8945	1.8950	1.8954	1.8958	1.8963
.278	1.8967	1.8971	1.8976	1.8980	1.8985	1.8989	1.8993	1.8998	1.9002	1.9006
.279	1.9011	1.9015	1.9020	1.9024	1.9028	1.9033	1.9037	1.9041	1.9046	1.9050
.280	1.9055	1.9059	1.9063	1.9068	1.9072	1.9077	1.9081	1.9085	1.9090	1.9094
.281	1.9099	1.9103	1.9107	1.9112	1.9116	1.9121	1.9125	1.9129	1.9134	1.9138
.282	1.9143	1.9147	1.9151	1.9156	1.9160	1.9165	1.9169	1.9173	1.9178	1.9182
.283	1.9187	1.9191	1.9196	1.9200	1.9204	1.9209	1.9213	1.9218	1.9222	1.9226
.284	1.9231	1.9235	1.9240	1.9244	1.9249	1.9253	1.9258	1.9262	1.9266	1.9271
.285	1.9275	1.9280	1.9284	1.9289	1.9293	1.9297	1.9302	1.9306	1.9311	1.9315
.286	1.9320	1.9324	1.9329	1.9333	1.9337	1.9342	1.9346	1.9351	1.9355	1.9360
.287	1.9364	1.9369	1.9373	1.9378	1.9382	1.9387	1.9391	1.9395	1.9400	1.9404
.288	1.9409	1.9413	1.9418	1.9422	1.9427	1.9431	1.9436	1.9440	1.9445	1.9449
.289	1.9454	1.9458	1.9463	1.9467	1.9472	1.9476	1.9480	1.9485	1.9489	1.9494
.290	1.9498	1.9503	1.9507	1.9512	1.9516	1.9521	1.9525	1.9530	1.9534	1.9539
.291	1.9543	1.9548	1.9552	1.9557	1.9561	1.9566	1.9570	1.9575	1.9579	1.9584
.292	1.9588	1.9593	1.9597	1.9602	1.9606	1.9611	1.9616	1.9620	1.9625	1.9629

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.294	1.9679	1.9683	1.9688	1.9692	1.9697	1.9702	1.9706	1.9711	1.9715	1.9720
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.298	1.9861	1.9866	1.9870	1.9875	1.9879	1.9884	1.9888	1.9893	1.9898	1.9902
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.301	1.9999	2.0003	2.0008	2.0012	2.0017	2.0022	2.0026	2.0031	2.0035	2.0040
.302	2.0045	2.0049	2.0054	2.0059	2.0063	2.0068	2.0072	2.0077	2.0082	2.0086
.303	2.0091	2.0096	2.0100	2.0105	2.0109	2.0114	2.0119	2.0123	2.0128	2.0133
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.307	2.0277	2.0281	2.0286	2.0291	2.0296	2.0300	2.0305	2.0310	2.0314	2.0319
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.309	2.0370	2.0375	2.0380	2.0384	2.0389	2.0394	2.0399	2.0403	2.0408	2.0413
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.313	2.0559	2.0564	2.0568	2.0573	2.0578	2.0583	2.0587	2.0592	2.0597	2.0602
.314	2.0606	2.0611	2.0616	2.0621	2.0625	2.0630	2.0635	2.0640	2.0644	2.0649
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.319	2.0845	2.0850	2.0855	2.0859	2.0864	2.0869	2.0874	2.0879	2.0883	2.0888
.320	2.0893	2.0898	2.0903	2.0907	2.0912	2.0917	2.0922	2.0927	2.0931	2.0936
.321	2.0941	2.0946	2.0951	2.0956	2.0960	2.0965	2.0970	2.0975	2.0980	2.0985
.322	2.0989	2.0994	2.0999	2.1004	2.1009	2.1014	2.1018	2.1023	2.1028	2.1033
.323	2.1038	2.1043	2.1047	2.1052	2.1057	2.1062	2.1067	2.1072	2.1077	2.1081
.324	2.1086	2.1091	2.1096	2.1101	2.1106	2.1111	2.1115	2.1120	2.1125	2.1130
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.328	2.1281	2.1286	2.1291	2.1296	2.1301	2.1306	2.1311	2.1316	2.1321	2.1326
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.332	2.1478	2.1483	2.1488	2.1493	2.1498	2.1503	2.1508	2.1513	2.1518	2.1523
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.344	2.2080	2.2085	2.2090	2.2095	2.2100	2.2105	2.2111	2.2116	2.2121	2.2126
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.401	2.5177	2.5183	2.5188	2.5194	2.5200	2.5206	2.5212	2.5217	2.5223	2.5229
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.411	2.5763	2.5769	2.5775	2.5781	2.5787	2.5793	2.5799	2.5805	2.5811	2.5817
.412	2.5823	2.5829	2.5834	2.5840	2.5846	2.5852	2.5858	2.5864	2.5870	2.5876
.413	2.5882	2.5888	2.5894	2.5900	2.5906	2.5912	2.5918	2.5924	2.5930	2.5936
.414	2.5942	2.5948	2.5954	2.5960	2.5966	2.5972	2.5978	2.5984	2.5990	2.5996
.415	2.6002	2.6008	2.6014	2.6020	2.6026	2.6032	2.6038	2.6044	2.6050	2.6056
.416	2.6062	2.6068	2.6074	2.6080	2.6086	2.6092	2.6098	2.6104	2.6110	2.6116
.417	2.6122	2.6128	2.6134	2.6140	2.6146	2.6152	2.6158	2.6164	2.6170	2.6176
.418	2.6182	2.6188	2.6194	2.6200	2.6206	2.6212	2.6218	2.6224	2.6230	2.6236
.419	2.6242	2.6248	2.6254	2.6260	2.6266	2.6272	2.6278	2.6285	2.6291	2.6297
.420	2.6303	2.6309	2.6315	2.6321	2.6327	2.6333	2.6339	2.6345	2.6351	2.6357
.421	2.6363	2.6369	2.6375	2.6382	2.6388	2.6394	2.6400	2.6406	2.6412	2.6418
.422	2.6424	2.6430	2.6436	2.6442	2.6448	2.6455	2.6461	2.6467	2.6473	2.6479
.423	2.6485	2.6491	2.6497	2.6503	2.6509	2.6516	2.6522	2.6528	2.6534	2.6540
.424	2.6546	2.6552	2.6558	2.6564	2.6571	2.6577	2.6583	2.6589	2.6595	2.6601
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.426	2.6669	2.6675	2.6681	2.6687	2.6693	2.6699	2.6705	2.6712	2.6718	2.6724
.427	2.6730	2.6736	2.6742	2.6749	2.6755	2.6761	2.6767	2.6773	2.6779	2.6786
.428	2.6792	2.6798	2.6804	2.6810	2.6816	2.6823	2.6829	2.6835	2.6841	2.6847
.429	2.6853	2.6860	2.6866	2.6872	2.6878	2.6884	2.6891	2.6897	2.6903	2.6909
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.431	2.6977	2.6984	2.6990	2.6996	2.7002	2.7008	2.7015	2.7021	2.7027	2.7033
.432	2.7040	2.7046	2.7052	2.7058	2.7064	2.7071	2.7077	2.7083	2.7089	2.7096
.433	2.7102	2.7108	2.7114	2.7121	2.7127	2.7133	2.7139	2.7146	2.7152	2.7158
.434	2.7164	2.7171	2.7177	2.7183	2.7189	2.7196	2.7202	2.7208	2.7214	2.7221
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.436	2.7290	2.7296	2.7302	2.7309	2.7315	2.7321	2.7328	2.7334	2.7340	2.7346
.437	2.7353	2.7359	2.7365	2.7372	2.7378	2.7384	2.7391	2.7397	2.7403	2.7409
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.439	2.7479	2.7485	2.7492	2.7498	2.7504	2.7511	2.7517	2.7523	2.7530	2.7536

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.442	2.7669	2.7676	2.7682	2.7689	2.7695	2.7701	2.7708	2.7714	2.7720	2.7727
.443	2.7733	2.7740	2.7746	2.7752	2.7759	2.7765	2.7772	2.7778	2.7784	2.7791
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.445	2.7861	2.7868	2.7874	2.7880	2.7887	2.7893	2.7900	2.7906	2.7913	2.7919
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.448	2.8054	2.8061	2.8067	2.8074	2.8080	2.8087	2.8093	2.8100	2.8106	2.8113
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.451	2.8249	2.8255	2.8262	2.8268	2.8275	2.8281	2.8288	2.8294	2.8301	2.8307
.452	2.8314	2.8320	2.8327	2.8333	2.8340	2.8347	2.8353	2.8360	2.8366	2.8373
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.454	2.8445	2.8451	2.8458	2.8464	2.8471	2.8477	2.8484	2.8490	2.8497	2.8504
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.456	2.8576	2.8582	2.8589	2.8596	2.8602	2.8609	2.8615	2.8622	2.8629	2.8635
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.462	2.8973	2.8980	2.8987	2.8993	2.9000	2.9007	2.9013	2.9020	2.9027	2.9034
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.465	2.9174	2.9181	2.9188	2.9194	2.9201	2.9208	2.9215	2.9221	2.9228	2.9235
.466	2.9242	2.9248	2.9255	2.9262	2.9268	2.9275	2.9282	2.9289	2.9295	2.9302
.467	2.9309	2.9316	2.9322	2.9329	2.9336	2.9343	2.9349	2.9356	2.9363	2.9370
.468	2.9376	2.9383	2.9390	2.9397	2.9404	2.9410	2.9417	2.9424	2.9431	2.9437
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.471	2.9580	2.9587	2.9594	2.9601	2.9607	2.9614	2.9621	2.9628	2.9635	2.9641
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.475	2.9854	2.9861	2.9868	2.9874	2.9881	2.9888	2.9895	2.9902	2.9909	2.9916
.476	2.9923	2.9930	2.9936	2.9943	2.9950	2.9957	2.9964	2.9971	2.9978	2.9985
.477	2.9992	2.9999	3.0005	3.0012	3.0019	3.0026	3.0033	3.0040	3.0047	3.0054
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.490	3.0903	3.0910	3.0917	3.0924	3.0931	3.0939	3.0946	3.0953	3.0960	3.0967
.491	3.0974	3.0981	3.0988	3.0996	3.1003	3.1010	3.1017	3.1024	3.1031	3.1038
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.500	3.1623	3.1630	3.1637	3.1645	3.1652	3.1659	3.1666	3.1674	3.1681	3.1688
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.502	3.1769	3.1776	3.1783	3.1791	3.1798	3.1805	3.1813	3.1820	3.1827	3.1835
.503	3.1842	3.1849	3.1857	3.1864	3.1871	3.1879	3.1886	3.1893	3.1901	3.1908
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.505	3.1989	3.1996	3.2004	3.2011	3.2018	3.2026	3.2033	3.2041	3.2048	3.2055
.506	3.2063	3.2070	3.2077	3.2085	3.2092	3.2100	3.2107	3.2114	3.2122	3.2129
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.558	3.6141	3.6149	3.6158	3.6166	3.6174	3.6183	3.6191	3.6199	3.6208	3.6216
.559	3.6224	3.6233	3.6241	3.6249	3.6258	3.6266	3.6274	3.6283	3.6291	3.6299
.560	3.6308	3.6316	3.6325	3.6333	3.6341	3.6350	3.6358	3.6366	3.6375	3.6383
.561	3.6392	3.6400	3.6408	3.6417	3.6425	3.6433	3.6442	3.6450	3.6459	3.6467
.562	3.6475	3.6484	3.6492	3.6501	3.6509	3.6517	3.6526	3.6534	3.6543	3.6551
.563	3.6559	3.6568	3.6576	3.6585	3.6593	3.6602	3.6610	3.6618	3.6627	3.6635
.564	3.6644	3.6652	3.6661	3.6669	3.6678	3.6686	3.6694	3.6703	3.6711	3.6720
.565	3.6728	3.6737	3.6745	3.6754	3.6762	3.6771	3.6779	3.6787	3.6796	3.6804
.566	3.6813	3.6821	3.6830	3.6838	3.6847	3.6855	3.6864	3.6872	3.6881	3.6889
.567	3.6898	3.6906	3.6915	3.6923	3.6932	3.6940	3.6949	3.6957	3.6966	3.6974
.568	3.6983	3.6991	3.7000	3.7008	3.7017	3.7025	3.7034	3.7042	3.7051	3.7060
.569	3.7068	3.7077	3.7085	3.7094	3.7102	3.7111	3.7119	3.7128	3.7136	3.7145
.570	3.7154	3.7162	3.7171	3.7179	3.7188	3.7196	3.7205	3.7213	3.7222	3.7231
.571	3.7239	3.7248	3.7256	3.7265	3.7273	3.7282	3.7291	3.7299	3.7308	3.7316
.572	3.7325	3.7334	3.7342	3.7351	3.7359	3.7368	3.7377	3.7385	3.7394	3.7402
.573	3.7411	3.7420	3.7428	3.7437	3.7446	3.7454	3.7463	3.7471	3.7480	3.7489
.574	3.7497	3.7506	3.7515	3.7523	3.7532	3.7540	3.7549	3.7558	3.7566	3.7575
.575	3.7584	3.7592	3.7601	3.7610	3.7618	3.7627	3.7636	3.7644	3.7653	3.7662
.576	3.7670	3.7679	3.7688	3.7696	3.7705	3.7714	3.7722	3.7731	3.7740	3.7749
.577	3.7757	3.7766	3.7775	3.7783	3.7792	3.7801	3.7809	3.7818	3.7827	3.7836
.578	3.7844	3.7853	3.7862	3.7870	3.7879	3.7888	3.7897	3.7905	3.7914	3.7923
.579	3.7931	3.7940	3.7949	3.7958	3.7966	3.7975	3.7984	3.7993	3.8001	3.8010
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.581	3.8107	3.8115	3.8124	3.8133	3.8142	3.8150	3.8159	3.8168	3.8177	3.8186
.582	3.8194	3.8203	3.8212	3.8221	3.8230	3.8238	3.8247	3.8256	3.8265	3.8274
.583	3.8282	3.8291	3.8300	3.8309	3.8318	3.8327	3.8335	3.8344	3.8353	3.8362
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.588	3.8726	3.8735	3.8744	3.8753	3.8761	3.8770	3.8779	3.8788	3.8797	3.8806
.589	3.8815	3.8824	3.8833	3.8842	3.8851	3.8860	3.8869	3.8878	3.8887	3.8896
.590	3.8905	3.8913	3.8922	3.8931	3.8940	3.8949	3.8958	3.8967	3.8976	3.8985
.591	3.8994	3.9003	3.9012	3.9021	3.9030	3.9039	3.9048	3.9057	3.9066	3.9075
.592	3.9084	3.9093	3.9102	3.9111	3.9120	3.9129	3.9138	3.9147	3.9156	3.9165
.593	3.9174	3.9183	3.9192	3.9201	3.9210	3.9219	3.9228	3.9237	3.9246	3.9255
.594	3.9264	3.9274	3.9283	3.9292	3.9301	3.9310	3.9319	3.9328	3.9337	3.9346
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.601	3.9902	3.9912	3.9921	3.9930	3.9939	3.9948	3.9958	3.9967	3.9976	3.9985
.602	3.9994	4.0004	4.0013	4.0022	4.0031	4.0041	4.0050	4.0059	4.0068	4.0077
.603	4.0087	4.0096	4.0105	4.0114	4.0124	4.0133	4.0142	4.0151	4.0161	4.0170
.604	4.0179	4.0188	4.0198	4.0207	4.0216	4.0225	4.0235	4.0244	4.0253	4.0262
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.606	4.0365	4.0374	4.0383	4.0392	4.0402	4.0411	4.0420	4.0430	4.0439	4.0448
.607	4.0458	4.0467	4.0476	4.0486	4.0495	4.0504	4.0514	4.0523	4.0532	4.0542
.608	4.0551	4.0560	4.0570	4.0579	4.0588	4.0598	4.0607	4.0616	4.0626	4.0635
.609	4.0644	4.0654	4.0663	4.0672	4.0682	4.0691	4.0701	4.0710	4.0719	4.0729
.610	4.0738	4.0747	4.0757	4.0766	4.0776	4.0785	4.0794	4.0804	4.0813	4.0823
.611	4.0832	4.0841	4.0851	4.0860	4.0870	4.0879	4.0888	4.0898	4.0907	4.0917
.612	4.0926	4.0935	4.0945	4.0954	4.0964	4.0973	4.0983	4.0992	4.1002	4.1011
.613	4.1020	4.1030	4.1039	4.1049	4.1058	4.1068	4.1077	4.1087	4.1096	4.1106
.614	4.1115	4.1124	4.1134	4.1143	4.1153	4.1162	4.1172	4.1181	4.1191	4.1200
.615	4.1210	4.1219	4.1229	4.1238	4.1248	4.1257	4.1267	4.1276	4.1286	4.1295
.616	4.1305	4.1314	4.1324	4.1333	4.1343	4.1352	4.1362	4.1371	4.1381	4.1390
.617	4.1400	4.1410	4.1419	4.1429	4.1438	4.1448	4.1457	4.1467	4.1476	4.1486
.618	4.1495	4.1505	4.1515	4.1524	4.1534	4.1543	4.1553	4.1562	4.1572	4.1581
.619	4.1591	4.1601	4.1610	4.1620	4.1629	4.1639	4.1649	4.1658	4.1668	4.1677
.620	4.1687	4.1697	4.1706	4.1716	4.1725	4.1735	4.1745	4.1754	4.1764	4.1773
.621	4.1783	4.1793	4.1802	4.1812	4.1822	4.1831	4.1841	4.1850	4.1860	4.1870
.622	4.1879	4.1889	4.1899	4.1908	4.1918	4.1928	4.1937	4.1947	4.1957	4.1966
.623	4.1976	4.1986	4.1995	4.2005	4.2015	4.2024	4.2034	4.2044	4.2053	4.2063
.624	4.2073	4.2082	4.2092	4.2102	4.2111	4.2121	4.2131	4.2141	4.2150	4.2160
.625	4.2170	4.2179	4.2189	4.2199	4.2209	4.2218	4.2228	4.2238	4.2247	4.2257
.626	4.2267	4.2277	4.2286	4.2296	4.2306	4.2316	4.2325	4.2335	4.2345	4.2355
.627	4.2364	4.2374	4.2384	4.2394	4.2403	4.2413	4.2423	4.2433	4.2442	4.2452
.628	4.2462	4.2472	4.2482	4.2491	4.2501	4.2511	4.2521	4.2530	4.2540	4.2550
.629	4.2560	4.2570	4.2579	4.2589	4.2599	4.2609	4.2619	4.2628	4.2638	4.2648
.630	4.2658	4.2668	4.2678	4.2687	4.2697	4.2707	4.2717	4.2727	4.2737	4.2746
.631	4.2756	4.2766	4.2776	4.2786	4.2796	4.2806	4.2815	4.2825	4.2835	4.2845
.632	4.2855	4.2865	4.2875	4.2884	4.2894	4.2904	4.2914	4.2924	4.2934	4.2944
.633	4.2954	4.2964	4.2973	4.2983	4.2993	4.3003	4.3013	4.3023	4.3033	4.3043
.634	4.3053	4.3063	4.3072	4.3082	4.3092	4.3102	4.3112	4.3122	4.3132	4.3142
.635	4.3152	4.3162	4.3172	4.3182	4.3192	4.3202	4.3212	4.3222	4.3231	4.3241

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.636	4.3251	4.3261	4.3271	4.3281	4.3291	4.3301	4.3311	4.3321	4.3331	4.3341
.637	4.3351	4.3361	4.3371	4.3381	4.3391	4.3401	4.3411	4.3421	4.3431	4.3441
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.640	4.3652	4.3662	4.3672	4.3682	4.3692	4.3702	4.3712	4.3722	4.3732	4.3742
.641	4.3752	4.3762	4.3772	4.3782	4.3793	4.3803	4.3813	4.3823	4.3833	4.3843
.642	4.3853	4.3863	4.3873	4.3883	4.3893	4.3904	4.3914	4.3924	4.3934	4.3944
.643	4.3954	4.3964	4.3974	4.3985	4.3995	4.4005	4.4015	4.4025	4.4035	4.4045
.644	4.4055	4.4066	4.4076	4.4086	4.4096	4.4106	4.4116	4.4127	4.4137	4.4147
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.646	4.4259	4.4269	4.4279	4.4289	4.4300	4.4310	4.4320	4.4330	4.4340	4.4351
.647	4.4361	4.4371	4.4381	4.4392	4.4402	4.4412	4.4422	4.4432	4.4443	4.4453
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.649	4.4566	4.4576	4.4586	4.4596	4.4607	4.4617	4.4627	4.4638	4.4648	4.4658
.650	4.4668	4.4679	4.4689	4.4699	4.4710	4.4720	4.4730	4.4740	4.4751	4.4761
.651	4.4771	4.4782	4.4792	4.4802	4.4813	4.4823	4.4833	4.4844	4.4854	4.4864
.652	4.4875	4.4885	4.4895	4.4906	4.4916	4.4926	4.4937	4.4947	4.4957	4.4968
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.654	4.5082	4.5092	4.5102	4.5113	4.5123	4.5134	4.5144	4.5154	4.5165	4.5175
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.656	4.5290	4.5300	4.5311	4.5321	4.5331	4.5342	4.5352	4.5363	4.5373	4.5384
.657	4.5394	4.5405	4.5415	4.5426	4.5436	4.5446	4.5457	4.5467	4.5478	4.5488
.658	4.5499	4.5509	4.5520	4.5530	4.5541	4.5551	4.5562	4.5572	4.5583	4.5593
.659	4.5604	4.5614	4.5625	4.5635	4.5646	4.5656	4.5667	4.5677	4.5688	4.5698
.660	4.5709	4.5719	4.5730	4.5740	4.5751	4.5761	4.5772	4.5783	4.5793	4.5804
.661	4.5814	4.5825	4.5835	4.5846	4.5856	4.5867	4.5878	4.5888	4.5899	4.5909
.662	4.5920	4.5930	4.5941	4.5952	4.5962	4.5973	4.5983	4.5994	4.6004	4.6015
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.669	4.6666	4.6677	4.6687	4.6698	4.6709	4.6720	4.6730	4.6741	4.6752	4.6763
.670	4.6774	4.6784	4.6795	4.6806	4.6817	4.6827	4.6838	4.6849	4.6860	4.6871
.671	4.6881	4.6892	4.6903	4.6914	4.6925	4.6935	4.6946	4.6957	4.6968	4.6979
.672	4.6989	4.7000	4.7011	4.7022	4.7033	4.7044	4.7054	4.7065	4.7076	4.7087
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.674	4.7206	4.7217	4.7228	4.7239	4.7250	4.7261	4.7272	4.7282	4.7293	4.7304
.675	4.7315	4.7326	4.7337	4.7348	4.7359	4.7370	4.7381	4.7391	4.7402	4.7413
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.680	4.7863	4.7874	4.7885	4.7896	4.7907	4.7918	4.7929	4.7940	4.7951	4.7962
.681	4.7973	4.7984	4.7995	4.8006	4.8018	4.8029	4.8040	4.8051	4.8062	4.8073
.682	4.8084	4.8095	4.8106	4.8117	4.8128	4.8139	4.8150	4.8161	4.8173	4.8184
.683	4.8195	4.8206	4.8217	4.8228	4.8239	4.8250	4.8261	4.8273	4.8284	4.8295
.684	4.8306	4.8317	4.8328	4.8339	4.8350	4.8362	4.8373	4.8384	4.8395	4.8406

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.685	4.8417	4.8428	4.8440	4.8451	4.8462	4.8473	4.8484	4.8495	4.8507	4.8518
.686	4.8529	4.8540	4.8551	4.8562	4.8574	4.8585	4.8596	4.8607	4.8618	4.8630
.687	4.8641	4.8652	4.8663	4.8674	4.8686	4.8697	4.8708	4.8719	4.8730	4.8742
.688	4.8753	4.8764	4.8775	4.8787	4.8798	4.8809	4.8820	4.8831	4.8843	4.8854
.689	4.8865	4.8876	4.8888	4.8899	4.8910	4.8922	4.8933	4.8944	4.8955	4.8967
.690	4.8978	4.8989	4.9000	4.9012	4.9023	4.9034	4.9046	4.9057	4.9068	4.9079
.691	4.9091	4.9102	4.9113	4.9125	4.9136	4.9147	4.9159	4.9170	4.9181	4.9193
.692	4.9204	4.9215	4.9227	4.9238	4.9249	4.9261	4.9272	4.9283	4.9295	4.9306
.693	4.9317	4.9329	4.9340	4.9351	4.9363	4.9374	4.9386	4.9397	4.9408	4.9420
.694	4.9431	4.9442	4.9454	4.9465	4.9477	4.9488	4.9499	4.9511	4.9522	4.9534
.695	4.9545	4.9556	4.9568	4.9579	4.9591	4.9602	4.9614	4.9625	4.9636	4.9648
.696	4.9659	4.9671	4.9682	4.9694	4.9705	4.9716	4.9728	4.9739	4.9751	4.9762
.697	4.9774	4.9785	4.9797	4.9808	4.9820	4.9831	4.9843	4.9854	4.9865	4.9877
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.699	5.0003	5.0015	5.0026	5.0038	5.0050	5.0061	5.0073	5.0084	5.0096	5.0107
.700	5.0119	5.0130	5.0142	5.0153	5.0165	5.0176	5.0188	5.0200	5.0211	5.0223
.701	5.0234	5.0246	5.0257	5.0269	5.0281	5.0292	5.0304	5.0315	5.0327	5.0338
.702	5.0350	5.0362	5.0373	5.0385	5.0396	5.0408	5.0420	5.0431	5.0443	5.0455
.703	5.0466	5.0478	5.0489	5.0501	5.0513	5.0524	5.0536	5.0548	5.0559	5.0571
.704	5.0582	5.0594	5.0606	5.0617	5.0629	5.0641	5.0652	5.0664	5.0676	5.0687
.705	5.0699	5.0711	5.0722	5.0734	5.0746	5.0757	5.0769	5.0781	5.0793	5.0804
.706	5.0816	5.0828	5.0839	5.0851	5.0863	5.0874	5.0886	5.0898	5.0910	5.0921
.707	5.0933	5.0945	5.0957	5.0968	5.0980	5.0992	5.1004	5.1015	5.1027	5.1039
.708	5.1050	5.1062	5.1074	5.1086	5.1098	5.1109	5.1121	5.1133	5.1145	5.1156
.709	5.1168	5.1180	5.1192	5.1204	5.1215	5.1227	5.1239	5.1251	5.1263	5.1274
.710	5.1286	5.1298	5.1310	5.1322	5.1333	5.1345	5.1357	5.1369	5.1381	5.1393
.711	5.1404	5.1416	5.1428	5.1440	5.1452	5.1464	5.1475	5.1487	5.1499	5.1511
.712	5.1523	5.1535	5.1547	5.1558	5.1570	5.1582	5.1594	5.1606	5.1618	5.1630
.713	5.1642	5.1654	5.1665	5.1677	5.1689	5.1701	5.1713	5.1725	5.1737	5.1749
.714	5.1761	5.1773	5.1785	5.1796	5.1808	5.1820	5.1832	5.1844	5.1856	5.1868
.715	5.1880	5.1892	5.1904	5.1916	5.1928	5.1940	5.1952	5.1964	5.1976	5.1988
.716	5.2000	5.2012	5.2024	5.2036	5.2048	5.2060	5.2071	5.2083	5.2095	5.2107
.717	5.2119	5.2131	5.2143	5.2155	5.2167	5.2180	5.2192	5.2204	5.2216	5.2228
.718	5.2240	5.2252	5.2264	5.2276	5.2288	5.2300	5.2312	5.2324	5.2336	5.2348
.719	5.2360	5.2372	5.2384	5.2396	5.2408	5.2420	5.2432	5.2445	5.2457	5.2469
.720	5.2481	5.2493	5.2505	5.2517	5.2529	5.2541	5.2553	5.2565	5.2578	5.2590
.721	5.2602	5.2614	5.2626	5.2638	5.2650	5.2662	5.2674	5.2687	5.2699	5.2711
.722	5.2723	5.2735	5.2747	5.2759	5.2772	5.2784	5.2796	5.2808	5.2820	5.2832
.723	5.2845	5.2857	5.2869	5.2881	5.2893	5.2905	5.2918	5.2930	5.2942	5.2954
.724	5.2966	5.2979	5.2991	5.3003	5.3015	5.3027	5.3040	5.3052	5.3064	5.3076
.725	5.3088	5.3101	5.3113	5.3125	5.3137	5.3150	5.3162	5.3174	5.3186	5.3199
.726	5.3211	5.3223	5.3235	5.3248	5.3260	5.3272	5.3284	5.3297	5.3309	5.3321
.727	5.3333	5.3346	5.3358	5.3370	5.3383	5.3395	5.3407	5.3420	5.3432	5.3444
.728	5.3456	5.3469	5.3481	5.3493	5.3506	5.3518	5.3530	5.3543	5.3555	5.3567
.729	5.3580	5.3592	5.3604	5.3617	5.3629	5.3641	5.3654	5.3666	5.3678	5.3691
.730	5.3703	5.3716	5.3728	5.3740	5.3753	5.3765	5.3777	5.3790	5.3802	5.3815
.731	5.3827	5.3839	5.3852	5.3864	5.3877	5.3889	5.3901	5.3914	5.3926	5.3939
.732	5.3951	5.3963	5.3976	5.3988	5.4001	5.4013	5.4026	5.4038	5.4051	5.4063
.733	5.4075	5.4088	5.4100	5.4113	5.4125	5.4138	5.4150	5.4163	5.4175	5.4188

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.734	5.4200	5.4213	5.4225	5.4238	5.4250	5.4263	5.4275	5.4288	5.4300	5.4313
.735	5.4325	5.4338	5.4350	5.4363	5.4375	5.4388	5.4400	5.4413	5.4425	5.4438
.736	5.4450	5.4463	5.4475	5.4488	5.4500	5.4513	5.4526	5.4538	5.4551	5.4563
.737	5.4576	5.4588	5.4601	5.4613	5.4626	5.4639	5.4651	5.4664	5.4676	5.4689
.738	5.4702	5.4714	5.4727	5.4739	5.4752	5.4765	5.4777	5.4790	5.4802	5.4815
.739	5.4828	5.4840	5.4853	5.4866	5.4878	5.4891	5.4903	5.4916	5.4929	5.4941
.740	5.4954	5.4967	5.4979	5.4992	5.5005	5.5017	5.5030	5.5043	5.5055	5.5068
.741	5.5081	5.5093	5.5106	5.5119	5.5132	5.5144	5.5157	5.5170	5.5182	5.5195
.742	5.5208	5.5220	5.5233	5.5246	5.5259	5.5271	5.5284	5.5297	5.5310	5.5322
.743	5.5335	5.5348	5.5360	5.5373	5.5386	5.5399	5.5412	5.5424	5.5437	5.5450
.744	5.5463	5.5475	5.5488	5.5501	5.5514	5.5526	5.5539	5.5552	5.5565	5.5578
.745	5.5590	5.5603	5.5616	5.5629	5.5642	5.5654	5.5667	5.5680	5.5693	5.5706
.746	5.5719	5.5731	5.5744	5.5757	5.5770	5.5783	5.5796	5.5808	5.5821	5.5834
.747	5.5847	5.5860	5.5873	5.5886	5.5898	5.5911	5.5924	5.5937	5.5950	5.5963
.748	5.5976	5.5989	5.6002	5.6014	5.6027	5.6040	5.6053	5.6066	5.6079	5.6092
.749	5.6105	5.6118	5.6131	5.6144	5.6156	5.6169	5.6182	5.6195	5.6208	5.6221
.750	5.6234	5.6247	5.6260	5.6273	5.6286	5.6299	5.6312	5.6325	5.6338	5.6351
.751	5.6364	5.6377	5.6390	5.6403	5.6416	5.6429	5.6442	5.6455	5.6468	5.6481
.752	5.6494	5.6507	5.6520	5.6533	5.6546	5.6559	5.6572	5.6585	5.6598	5.6611
.753	5.6624	5.6637	5.6650	5.6663	5.6676	5.6689	5.6702	5.6715	5.6728	5.6741
.754	5.6754	5.6768	5.6781	5.6794	5.6807	5.6820	5.6833	5.6846	5.6859	5.6872
.755	5.6885	5.6898	5.6911	5.6925	5.6938	5.6951	5.6964	5.6977	5.6990	5.7003
.756	5.7016	5.7030	5.7043	5.7056	5.7069	5.7082	5.7095	5.7108	5.7122	5.7135
.757	5.7148	5.7161	5.7174	5.7187	5.7201	5.7214	5.7227	5.7240	5.7253	5.7266
.758	5.7280	5.7293	5.7306	5.7319	5.7332	5.7346	5.7359	5.7372	5.7385	5.7398
.759	5.7412	5.7425	5.7438	5.7451	5.7465	5.7478	5.7491	5.7504	5.7517	5.7531
.760	5.7544	5.7557	5.7570	5.7584	5.7597	5.7610	5.7624	5.7637	5.7650	5.7663
.761	5.7677	5.7690	5.7703	5.7717	5.7730	5.7743	5.7756	5.7770	5.7783	5.7796
.762	5.7810	5.7823	5.7836	5.7850	5.7863	5.7876	5.7890	5.7903	5.7916	5.7930
.763	5.7943	5.7956	5.7970	5.7983	5.7996	5.8010	5.8023	5.8036	5.8050	5.8063
.764	5.8076	5.8090	5.8103	5.8117	5.8130	5.8143	5.8157	5.8170	5.8184	5.8197
.765	5.8210	5.8224	5.8237	5.8251	5.8264	5.8277	5.8291	5.8304	5.8318	5.8331
.766	5.8345	5.8358	5.8371	5.8385	5.8398	5.8412	5.8425	5.8439	5.8452	5.8466
.767	5.8479	5.8492	5.8506	5.8519	5.8533	5.8546	5.8560	5.8573	5.8587	5.8600
.768	5.8614	5.8627	5.8641	5.8654	5.8668	5.8681	5.8695	5.8708	5.8722	5.8735
.769	5.8749	5.8762	5.8776	5.8790	5.8803	5.8817	5.8830	5.8844	5.8857	5.8871
.770	5.8884	5.8898	5.8911	5.8925	5.8939	5.8952	5.8966	5.8979	5.8993	5.9007
.771	5.9020	5.9034	5.9047	5.9061	5.9074	5.9088	5.9102	5.9115	5.9129	5.9143
.772	5.9156	5.9170	5.9183	5.9197	5.9211	5.9224	5.9238	5.9252	5.9265	5.9279
.773	5.9293	5.9306	5.9320	5.9334	5.9347	5.9361	5.9375	5.9388	5.9402	5.9416
.774	5.9429	5.9443	5.9457	5.9470	5.9484	5.9498	5.9511	5.9525	5.9539	5.9553
.775	5.9566	5.9580	5.9594	5.9607	5.9621	5.9635	5.9649	5.9662	5.9676	5.9690
.776	5.9704	5.9717	5.9731	5.9745	5.9759	5.9772	5.9786	5.9800	5.9814	5.9827
.777	5.9841	5.9855	5.9869	5.9883	5.9896	5.9910	5.9924	5.9938	5.9951	5.9965
.778	5.9979	5.9993	6.0007	6.0021	6.0034	6.0048	6.0062	6.0076	6.0090	6.0104
.779	6.0117	6.0131	6.0145	6.0159	6.0173	6.0187	6.0200	6.0214	6.0228	6.0242
.780	6.0256	6.0270	6.0284	6.0298	6.0311	6.0325	6.0339	6.0353	6.0367	6.0381
.781	6.0395	6.0409	6.0423	6.0437	6.0451	6.0464	6.0478	6.0492	6.0506	6.0520
.782	6.0534	6.0548	6.0562	6.0576	6.0590	6.0604	6.0618	6.0632	6.0646	6.0660

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.783	6.0674	6.0688	6.0702	6.0716	6.0730	6.0744	6.0758	6.0772	6.0786	6.0799
.784	6.0814	6.0828	6.0842	6.0856	6.0870	6.0884	6.0898	6.0912	6.0926	6.0940
.785	6.0954	6.0968	6.0982	6.0996	6.1010	6.1024	6.1038	6.1052	6.1066	6.1080
.786	6.1094	6.1108	6.1122	6.1136	6.1150	6.1165	6.1179	6.1193	6.1207	6.1221
.787	6.1235	6.1249	6.1263	6.1277	6.1291	6.1306	6.1320	6.1334	6.1348	6.1362
.788	6.1376	6.1390	6.1404	6.1419	6.1433	6.1447	6.1461	6.1475	6.1489	6.1504
.789	6.1518	6.1532	6.1546	6.1560	6.1574	6.1589	6.1603	6.1617	6.1631	6.1645
.790	6.1660	6.1674	6.1688	6.1702	6.1716	6.1731	6.1745	6.1759	6.1773	6.1787
.791	6.1802	6.1816	6.1830	6.1844	6.1859	6.1873	6.1887	6.1901	6.1916	6.1930
.792	6.1944	6.1958	6.1973	6.1987	6.2001	6.2015	6.2030	6.2044	6.2058	6.2073
.793	6.2087	6.2101	6.2116	6.2130	6.2144	6.2158	6.2173	6.2187	6.2201	6.2216
.794	6.2230	6.2244	6.2259	6.2273	6.2287	6.2302	6.2316	6.2330	6.2345	6.2359
.795	6.2373	6.2388	6.2402	6.2417	6.2431	6.2445	6.2460	6.2474	6.2488	6.2503
.796	6.2517	6.2532	6.2546	6.2560	6.2575	6.2589	6.2604	6.2618	6.2633	6.2647
.797	6.2661	6.2676	6.2690	6.2705	6.2719	6.2734	6.2748	6.2762	6.2777	6.2791
.798	6.2806	6.2820	6.2835	6.2849	6.2864	6.2878	6.2893	6.2907	6.2922	6.2936
.799	6.2951	6.2965	6.2980	6.2994	6.3009	6.3023	6.3038	6.3052	6.3067	6.3081
.800	6.3096	6.3110	6.3125	6.3139	6.3154	6.3168	6.3183	6.3198	6.3212	6.3227
.801	6.3241	6.3256	6.3270	6.3285	6.3299	6.3314	6.3329	6.3343	6.3358	6.3372
.802	6.3387	6.3402	6.3416	6.3431	6.3445	6.3460	6.3475	6.3489	6.3504	6.3518
.803	6.3533	6.3548	6.3562	6.3577	6.3592	6.3606	6.3621	6.3636	6.3650	6.3665
.804	6.3680	6.3694	6.3709	6.3724	6.3738	6.3753	6.3768	6.3782	6.3797	6.3812
.805	6.3826	6.3841	6.3856	6.3870	6.3885	6.3900	6.3915	6.3929	6.3944	6.3959
.806	6.3973	6.3988	6.4003	6.4018	6.4032	6.4047	6.4062	6.4077	6.4091	6.4106
.807	6.4121	6.4136	6.4150	6.4165	6.4180	6.4195	6.4210	6.4224	6.4239	6.4254
.808	6.4269	6.4284	6.4298	6.4313	6.4328	6.4343	6.4358	6.4372	6.4387	6.4402
.809	6.4417	6.4432	6.4447	6.4461	6.4476	6.4491	6.4506	6.4521	6.4536	6.4551
.810	6.4565	6.4580	6.4595	6.4610	6.4625	6.4640	6.4655	6.4670	6.4684	6.4699
.811	6.4714	6.4729	6.4744	6.4759	6.4774	6.4789	6.4804	6.4819	6.4834	6.4849
.812	6.4863	6.4878	6.4893	6.4908	6.4923	6.4938	6.4953	6.4968	6.4983	6.4998
.813	6.5013	6.5028	6.5043	6.5058	6.5073	6.5088	6.5103	6.5118	6.5133	6.5148
.814	6.5163	6.5178	6.5193	6.5208	6.5223	6.5238	6.5253	6.5268	6.5283	6.5298
.815	6.5313	6.5328	6.5343	6.5358	6.5373	6.5388	6.5403	6.5418	6.5433	6.5449
.816	6.5464	6.5479	6.5494	6.5509	6.5524	6.5539	6.5554	6.5569	6.5584	6.5599
.817	6.5615	6.5630	6.5645	6.5660	6.5675	6.5690	6.5705	6.5720	6.5736	6.5751
.818	6.5766	6.5781	6.5796	6.5811	6.5826	6.5842	6.5857	6.5872	6.5887	6.5902
.819	6.5917	6.5933	6.5948	6.5963	6.5978	6.5993	6.6009	6.6024	6.6039	6.6054
.820	6.6069	6.6085	6.6100	6.6115	6.6130	6.6145	6.6161	6.6176	6.6191	6.6206
.821	6.6222	6.6237	6.6252	6.6267	6.6283	6.6298	6.6313	6.6328	6.6344	6.6359
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.823	6.6527	6.6543	6.6558	6.6573	6.6589	6.6604	6.6619	6.6635	6.6650	6.6665
.824	6.6681	6.6696	6.6711	6.6727	6.6742	6.6757	6.6773	6.6788	6.6804	6.6819
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.826	6.6988	6.7004	6.7019	6.7035	6.7050	6.7066	6.7081	6.7097	6.7112	6.7127
.827	6.7143	6.7158	6.7174	6.7189	6.7205	6.7220	6.7236	6.7251	6.7267	6.7282
.828	6.7298	6.7313	6.7329	6.7344	6.7360	6.7375	6.7391	6.7406	6.7422	6.7437
.829	6.7453	6.7468	6.7484	6.7499	6.7515	6.7531	6.7546	6.7562	6.7577	6.7593
.830	6.7608	6.7624	6.7639	6.7655	6.7671	6.7686	6.7702	6.7717	6.7733	6.7749
.831	6.7764	6.7780	6.7795	6.7811	6.7827	6.7842	6.7858	6.7873	6.7889	6.7905

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.832	6.7920	6.7936	6.7952	6.7967	6.7983	6.7999	6.8014	6.8030	6.8046	6.8061
.833	6.8077	6.8093	6.8108	6.8124	6.8140	6.8155	6.8171	6.8187	6.8202	6.8218
.834	6.8234	6.8250	6.8265	6.8281	6.8297	6.8312	6.8328	6.8344	6.8360	6.8375
.835	6.8391	6.8407	6.8423	6.8438	6.8454	6.8470	6.8486	6.8501	6.8517	6.8533
.836	6.8549	6.8565	6.8580	6.8596	6.8612	6.8628	6.8644	6.8659	6.8675	6.8691
.837	6.8707	6.8723	6.8738	6.8754	6.8770	6.8786	6.8802	6.8818	6.8834	6.8849
.838	6.8865	6.8881	6.8897	6.8913	6.8929	6.8945	6.8960	6.8976	6.8992	6.9008
.839	6.9024	6.9040	6.9056	6.9072	6.9088	6.9103	6.9119	6.9135	6.9151	6.9167
.840	6.9183	6.9199	6.9215	6.9231	6.9247	6.9263	6.9279	6.9295	6.9311	6.9327
.841	6.9343	6.9359	6.9375	6.9390	6.9406	6.9422	6.9438	6.9454	6.9470	6.9486
.842	6.9502	6.9518	6.9534	6.9550	6.9566	6.9582	6.9599	6.9615	6.9631	6.9647
.843	6.9663	6.9679	6.9695	6.9711	6.9727	6.9743	6.9759	6.9775	6.9791	6.9807
.844	6.9823	6.9839	6.9855	6.9871	6.9888	6.9904	6.9920	6.9936	6.9952	6.9968
.845	6.9984	7.0000	7.0016	7.0033	7.0049	7.0065	7.0081	7.0097	7.0113	7.0129
.846	7.0146	7.0162	7.0178	7.0194	7.0210	7.0226	7.0243	7.0259	7.0275	7.0291
.847	7.0307	7.0323	7.0340	7.0356	7.0372	7.0388	7.0404	7.0421	7.0437	7.0453
.848	7.0469	7.0486	7.0502	7.0518	7.0534	7.0550	7.0567	7.0583	7.0599	7.0615
.849	7.0632	7.0648	7.0664	7.0681	7.0697	7.0713	7.0729	7.0746	7.0762	7.0778
.850	7.0795	7.0811	7.0827	7.0843	7.0860	7.0876	7.0892	7.0909	7.0925	7.0941
.851	7.0958	7.0974	7.0990	7.1007	7.1023	7.1040	7.1056	7.1072	7.1089	7.1105
.852	7.1121	7.1138	7.1154	7.1170	7.1187	7.1203	7.1220	7.1236	7.1252	7.1269
.853	7.1285	7.1302	7.1318	7.1335	7.1351	7.1367	7.1384	7.1400	7.1417	7.1433
.854	7.1450	7.1466	7.1483	7.1499	7.1515	7.1532	7.1548	7.1565	7.1581	7.1598
.855	7.1614	7.1631	7.1647	7.1664	7.1680	7.1697	7.1713	7.1730	7.1746	7.1763
.856	7.1779	7.1796	7.1812	7.1829	7.1846	7.1862	7.1879	7.1895	7.1912	7.1928
.857	7.1945	7.1961	7.1978	7.1995	7.2011	7.2028	7.2044	7.2061	7.2078	7.2094
.858	7.2111	7.2127	7.2144	7.2161	7.2177	7.2194	7.2210	7.2227	7.2244	7.2260
.859	7.2277	7.2294	7.2310	7.2327	7.2344	7.2360	7.2377	7.2394	7.2410	7.2427
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.861	7.2611	7.2627	7.2644	7.2661	7.2678	7.2694	7.2711	7.2728	7.2744	7.2761
.862	7.2778	7.2795	7.2812	7.2828	7.2845	7.2862	7.2879	7.2895	7.2912	7.2929
.863	7.2946	7.2963	7.2979	7.2996	7.3013	7.3030	7.3047	7.3063	7.3080	7.3097
.864	7.3114	7.3131	7.3148	7.3164	7.3181	7.3198	7.3215	7.3232	7.3249	7.3266
.865	7.3282	7.3299	7.3316	7.3333	7.3350	7.3367	7.3384	7.3401	7.3418	7.3434
.866	7.3451	7.3468	7.3485	7.3502	7.3519	7.3536	7.3553	7.3570	7.3587	7.3604
.867	7.3621	7.3638	7.3655	7.3672	7.3689	7.3706	7.3722	7.3739	7.3756	7.3773
.868	7.3790	7.3807	7.3824	7.3841	7.3858	7.3875	7.3892	7.3909	7.3926	7.3943
.869	7.3961	7.3978	7.3995	7.4012	7.4029	7.4046	7.4063	7.4080	7.4097	7.4114
.870	7.4131	7.4148	7.4165	7.4182	7.4199	7.4216	7.4234	7.4251	7.4268	7.4285
.871	7.4302	7.4319	7.4336	7.4353	7.4370	7.4388	7.4405	7.4422	7.4439	7.4456
.872	7.4473	7.4490	7.4508	7.4525	7.4542	7.4559	7.4576	7.4593	7.4611	7.4628
.873	7.4645	7.4662	7.4679	7.4696	7.4714	7.4731	7.4748	7.4765	7.4783	7.4800
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.875	7.4989	7.5007	7.5024	7.5041	7.5059	7.5076	7.5093	7.5110	7.5128	7.5145
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.882	7.6208	7.6225	7.6243	7.6261	7.6278	7.6296	7.6313	7.6331	7.6348	7.6366
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.886	7.6913	7.6931	7.6948	7.6966	7.6984	7.7002	7.7019	7.7037	7.7055	7.7073
.887	7.7090	7.7108	7.7126	7.7144	7.7161	7.7179	7.7197	7.7215	7.7232	7.7250
.888	7.7268	7.7286	7.7304	7.7321	7.7339	7.7357	7.7375	7.7393	7.7411	7.7428
.889	7.7446	7.7464	7.7482	7.7500	7.7518	7.7535	7.7553	7.7571	7.7589	7.7607
.890	7.7625	7.7643	7.7660	7.7678	7.7696	7.7714	7.7732	7.7750	7.7768	7.7786
.891	7.7804	7.7822	7.7839	7.7857	7.7875	7.7893	7.7911	7.7929	7.7947	7.7965
.892	7.7983	7.8001	7.8019	7.8037	7.8055	7.8073	7.8091	7.8109	7.8127	7.8145
.893	7.8163	7.8181	7.8199	7.8217	7.8235	7.8253	7.8271	7.8289	7.8307	7.8325
.894	7.8343	7.8361	7.8379	7.8397	7.8415	7.8433	7.8451	7.8469	7.8487	7.8505
.895	7.8524	7.8542	7.8560	7.8578	7.8596	7.8614	7.8632	7.8650	7.8668	7.8686
.896	7.8705	7.8723	7.8741	7.8759	7.8777	7.8795	7.8813	7.8832	7.8850	7.8868
.897	7.8886	7.8904	7.8922	7.8941	7.8959	7.8977	7.8995	7.9013	7.9031	7.9050
.898	7.9068	7.9086	7.9104	7.9122	7.9141	7.9159	7.9177	7.9195	7.9214	7.9232
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.901	7.9616	7.9634	7.9653	7.9671	7.9689	7.9708	7.9726	7.9744	7.9763	7.9781
.902	7.9799	7.9818	7.9836	7.9855	7.9873	7.9891	7.9910	7.9928	7.9947	7.9965
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.906	8.0538	8.0556	8.0575	8.0593	8.0612	8.0631	8.0649	8.0668	8.0686	8.0705
.907	8.0724	8.0742	8.0761	8.0779	8.0798	8.0816	8.0835	8.0854	8.0872	8.0891
.908	8.0910	8.0928	8.0947	8.0965	8.0984	8.1003	8.1021	8.1040	8.1059	8.1077
.909	8.1096	8.1115	8.1133	8.1152	8.1171	8.1190	8.1208	8.1227	8.1246	8.1264
.910	8.1283	8.1302	8.1320	8.1339	8.1358	8.1377	8.1395	8.1414	8.1433	8.1452
.911	8.1470	8.1489	8.1508	8.1527	8.1546	8.1564	8.1583	8.1602	8.1621	8.1639
.912	8.1658	8.1677	8.1696	8.1715	8.1733	8.1752	8.1771	8.1790	8.1809	8.1828
.913	8.1846	8.1865	8.1884	8.1903	8.1922	8.1941	8.1960	8.1979	8.1997	8.2016
.914	8.2035	8.2054	8.2073	8.2092	8.2111	8.2130	8.2149	8.2167	8.2186	8.2205
.915	8.2224	8.2243	8.2262	8.2281	8.2300	8.2319	8.2338	8.2357	8.2376	8.2395
.916	8.2414	8.2433	8.2452	8.2471	8.2490	8.2509	8.2528	8.2547	8.2566	8.2585
.917	8.2604	8.2623	8.2642	8.2661	8.2680	8.2699	8.2718	8.2737	8.2756	8.2775
.918	8.2794	8.2813	8.2832	8.2851	8.2871	8.2890	8.2909	8.2928	8.2947	8.2966
.919	8.2985	8.3004	8.3023	8.3042	8.3062	8.3081	8.3100	8.3119	8.3138	8.3157
.920	8.3176	8.3196	8.3215	8.3234	8.3253	8.3272	8.3291	8.3311	8.3330	8.3349
.921	8.3368	8.3387	8.3407	8.3426	8.3445	8.3464	8.3483	8.3503	8.3522	8.3541
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.924	8.3946	8.3965	8.3985	8.4004	8.4023	8.4043	8.4062	8.4081	8.4101	8.4120
.925	8.4140	8.4159	8.4178	8.4198	8.4217	8.4236	8.4256	8.4275	8.4295	8.4314
.926	8.4333	8.4353	8.4372	8.4392	8.4411	8.4431	8.4450	8.4470	8.4489	8.4508
.927	8.4528	8.4547	8.4567	8.4586	8.4606	8.4625	8.4645	8.4664	8.4684	8.4703
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.929	8.4918	8.4938	8.4957	8.4977	8.4996	8.5016	8.5035	8.5055	8.5075	8.5094

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.931	8.5310	8.5330	8.5349	8.5369	8.5389	8.5408	8.5428	8.5448	8.5467	8.5487
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.936	8.6298	8.6318	8.6338	8.6357	8.6377	8.6397	8.6417	8.6437	8.6457	8.6477
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.938	8.6696	8.6716	8.6736	8.6756	8.6776	8.6796	8.6816	8.6836	8.6856	8.6876
.939	8.6896	8.6916	8.6936	8.6956	8.6976	8.6996	8.7016	8.7036	8.7056	8.7076
.940	8.7096	8.7116	8.7136	8.7157	8.7177	8.7197	8.7217	8.7237	8.7257	8.7277
.941	8.7297	8.7317	8.7337	8.7357	8.7378	8.7398	8.7418	8.7438	8.7458	8.7478
.942	8.7498	8.7519	8.7539	8.7559	8.7579	8.7599	8.7619	8.7640	8.7660	8.7680
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.944	8.7902	8.7922	8.7943	8.7963	8.7983	8.8004	8.8024	8.8044	8.8064	8.8085
.945	8.8105	8.8125	8.8145	8.8166	8.8186	8.8206	8.8227	8.8247	8.8267	8.8288
.946	8.8308	8.8328	8.8349	8.8369	8.8389	8.8410	8.8430	8.8450	8.8471	8.8491
.947	8.8512	8.8532	8.8552	8.8573	8.8593	8.8614	8.8634	8.8654	8.8675	8.8695
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.950	8.9125	8.9146	8.9166	8.9187	8.9207	8.9228	8.9248	8.9269	8.9289	8.9310
.951	8.9331	8.9351	8.9372	8.9392	8.9413	8.9433	8.9454	8.9475	8.9495	8.9516
.952	8.9536	8.9557	8.9578	8.9598	8.9619	8.9640	8.9660	8.9681	8.9702	8.9722
.953	8.9743	8.9764	8.9784	8.9805	8.9826	8.9846	8.9867	8.9888	8.9908	8.9929
.954	8.9950	8.9970	8.9991	9.0012	9.0033	9.0053	9.0074	9.0095	9.0116	9.0136
.955	9.0157	9.0178	9.0199	9.0219	9.0240	9.0261	9.0282	9.0303	9.0323	9.0344
.956	9.0365	9.0386	9.0407	9.0427	9.0448	9.0469	9.0490	9.0511	9.0532	9.0552
.957	9.0573	9.0594	9.0615	9.0636	9.0657	9.0678	9.0698	9.0719	9.0740	9.0761
.958	9.0782	9.0803	9.0824	9.0845	9.0866	9.0887	9.0908	9.0928	9.0949	9.0970
.959	9.0991	9.1012	9.1033	9.1054	9.1075	9.1096	9.1117	9.1138	9.1159	9.1180
.960	9.1201	9.1222	9.1243	9.1264	9.1285	9.1306	9.1327	9.1348	9.1369	9.1390
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.963	9.1833	9.1854	9.1876	9.1897	9.1918	9.1939	9.1960	9.1981	9.2003	9.2024
.964	9.2045	9.2066	9.2087	9.2109	9.2130	9.2151	9.2172	9.2193	9.2215	9.2236
.965	9.2257	9.2278	9.2300	9.2321	9.2342	9.2363	9.2385	9.2406	9.2427	9.2449
.966	9.2470	9.2491	9.2512	9.2534	9.2555	9.2576	9.2598	9.2619	9.2640	9.2662
.967	9.2683	9.2704	9.2726	9.2747	9.2768	9.2790	9.2811	9.2832	9.2854	9.2875
.968	9.2897	9.2918	9.2939	9.2961	9.2982	9.3004	9.3025	9.3046	9.3068	9.3089
.969	9.3111	9.3132	9.3154	9.3175	9.3197	9.3218	9.3240	9.3261	9.3282	9.3304
.970	9.3325	9.3347	9.3368	9.3390	9.3411	9.3433	9.3454	9.3476	9.3498	9.3519
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.972	9.3756	9.3778	9.3799	9.3821	9.3843	9.3864	9.3886	9.3907	9.3929	9.3951
.973	9.3972	9.3994	9.4016	9.4037	9.4059	9.4081	9.4102	9.4124	9.4146	9.4167
.974	9.4189	9.4211	9.4232	9.4254	9.4276	9.4297	9.4319	9.4341	9.4363	9.4384
.975	9.4406	9.4428	9.4450	9.4471	9.4493	9.4515	9.4537	9.4558	9.4580	9.4602
.976	9.4624	9.4646	9.4667	9.4689	9.4711	9.4733	9.4755	9.4776	9.4798	9.4820
.977	9.4842	9.4864	9.4886	9.4907	9.4929	9.4951	9.4973	9.4995	9.5017	9.5039
.978	9.5060	9.5082	9.5104	9.5126	9.5148	9.5170	9.5192	9.5214	9.5236	9.5258

	0	1	2	3	4	5	6	7	8	9
.979	9.5280	9.5302	9.5324	9.5345	9.5367	9.5389	9.5411	9.5433	9.5455	9.5477
.980	9.5499	9.5521	9.5543	9.5565	9.5587	9.5609	9.5631	9.5653	9.5675	9.5697
.981	9.5719	9.5741	9.5763	9.5786	9.5808	9.5830	9.5852	9.5874	9.5896	9.5918
.982	9.5940	9.5962	9.5984	9.6006	9.6028	9.6051	9.6073	9.6095	9.6117	9.6139
.983	9.6161	9.6183	9.6206	9.6228	9.6250	9.6272	9.6294	9.6316	9.6339	9.6361
.984	9.6383	9.6405	9.6427	9.6450	9.6472	9.6494	9.6516	9.6538	9.6561	9.6583
.985	9.6605	9.6627	9.6650	9.6672	9.6694	9.6716	9.6739	9.6761	9.6783	9.6805
.986	9.6828	9.6850	9.6872	9.6895	9.6917	9.6939	9.6962	9.6984	9.7006	9.7029
.987	9.7051	9.7073	9.7096	9.7118	9.7140	9.7163	9.7185	9.7208	9.7230	9.7252
.988	9.7275	9.7297	9.7320	9.7342	9.7364	9.7387	9.7409	9.7432	9.7454	9.7477
.989	9.7499	9.7521	9.7544	9.7566	9.7589	9.7611	9.7634	9.7656	9.7679	9.7701
.990	9.7724	9.7746	9.7769	9.7791	9.7814	9.7836	9.7859	9.7881	9.7904	9.7926
.991	9.7949	9.7972	9.7994	9.8017	9.8039	9.8062	9.8084	9.8107	9.8130	9.8152
.992	9.8175	9.8197	9.8220	9.8243	9.8265	9.8288	9.8311	9.8333	9.8356	9.8378
.993	9.8401	9.8424	9.8446	9.8469	9.8492	9.8514	9.8537	9.8560	9.8583	9.8605
.994	9.8628	9.8651	9.8673	9.8696	9.8719	9.8742	9.8764	9.8787	9.8810	9.8833
.995	9.8855	9.8878	9.8901	9.8924	9.8946	9.8969	9.8992	9.9015	9.9038	9.9060
.996	9.9083	9.9106	9.9129	9.9152	9.9174	9.9197	9.9220	9.9243	9.9266	9.9289
.997	9.9312	9.9334	9.9357	9.9380	9.9403	9.9426	9.9449	9.9472	9.9495	9.9518
.998	9.9541	9.9563	9.9586	9.9609	9.9632	9.9655	9.9678	9.9701	9.9724	9.9747
.999	9.9770	9.9793	9.9816	9.9839	9.9862	9.9885	9.9908	9.9931	9.9954	9.9977

3 How to use this book

Tables of logarithms (“log tables”) are a quick way of simplifying multiplication and division tasks when no calculator is available. This is due to the simple identities:

- $\log(a \times b) = \log a + \log b$
- $\log(a \div b) = \log a - \log b$
- $\log a^b = \log(a) \times b$
- $\log \sqrt[b]{a} = \log(a) \div b$

To keep this book a reasonable size, logarithms are given for numbers in the range 1.000 – 9.999. In order to work with larger or smaller numbers, it is necessary to convert them to scientific notation, $a \times 10^b$, where $1.000 \leq a < 9.999$. For example, 21.8 becomes 2.18×10^1 and 0.00218 becomes 2.18×10^{-3} . It’s important to keep track of the powers of ten, as in multiplication and division they control the position of the decimal point, and in roots they become involved in the table lookup process.

To look up a logarithm, the number is found in the left hand index row to two decimal places, and then the correct column is selected for the third decimal place. For example, to find the logarithm of 3.657:

	0	1	2	3	4	5	6	7	8	9
3.64										
3.65	.56229	.56241	.56253	.56265	.56277	.56289	.56301	.56312	.56324	.56336
3.66										

Thus $\log 3.657 = 0.56312$. This is more correctly written $\log_{10} 3.657 = 0.56312$, but the decimal base will be omitted throughout.

To look up an anti-logarithm, a similar process is used. Antilogs are given to fewer decimal places than logarithms, again to keep the size of this book reasonable. To continue with our example, we will look up $\log^{-1} 0.56312$:

	0	1	2	3	4	5	6	7	8	9
.562										
.563	3.6559	3.6568	3.6576	3.6585	3.6593	3.6602	3.6610	3.6618	3.6627	3.6635
.564										

Note that we’ve had to round the lookup to 0.5631. It should surprise no-one that $\log^{-1} 0.5631 = 3.6568$, or our original example 3.657 when expressed to the same number of decimal places.

3.1 Multiplication

Example: $21.8 \times 36.57 = ?$

1. Convert both numbers into scientific form: $2.18 \times 10^1 \times 3.657 \times 10^1$
2. Look up $\log 2.18$. It’s in the first column next to 2.18: **0.33846**
3. Look up $\log 3.657$. It’s in the eighth column next to 3.65: **0.56312**

- Add the results: $0.33846 + 0.56312 = 0.90158$
- Look up the anti-logarithm of 0.9016: **7.9726**
- Multiply the result by the powers of ten left over: $7.9726 \times 10^{1+1} = 797.26$
- Just by looking up logarithms and adding, $21.8 \times 36.57 \approx \mathbf{797.26}$. Compare this with the calculated result, **797.226**.

3.2 Division

Example: $23.27 \div 14.07 = ?$

- Convert both numbers into scientific form: $(2.327 \times 10^1) \div (1.407 \times 10^1)$
- Look up $\log 2.327$. It's in the eighth column next to 2.32: **0.36680**
- Look up $\log 1.407$. It's in the eighth column next to 1.40: **0.14829**
- Subtract the results: $0.36680 - 0.14829 = 0.21851$
- Look up the anti-logarithm of 0.2185: **1.6539**
- Multiply the result by the powers of ten left over: $1.6539 \times 10^{1-1} = 1.6539$. (Since $n^0 = 1$.)
- Just by looking up logarithms and subtracting, $23.27 \div 14.07 \approx \mathbf{1.6539}$. Compare this with the calculated result, **1.654** to 4 significant figures.

3.3 Exponentiation

Example: $8.232^3 = ?$

- Look up $\log 8.232$. It's in the third column next to 8.23: **0.91551**
- Multiply $0.91551 \times 3 = 2.74653$.
- Split the result into integer (2) and fractional parts, and look up the anti-logarithm of the fraction, 0.7465: **5.5783**
- Multiply the result by the integer part as powers of ten: $5.5783 \times 10^2 = 557.83$.
- Just by looking up logarithms and multiplying, $8.232^3 \approx \mathbf{557.83}$. Compare this with the calculated result, **557.8** to 4 significant figures.

3.4 Roots

Example: $\sqrt[3]{28.317} = ?$

- Convert the number to scientific form: 2.8317×10^1 , so the calculation becomes $\sqrt[3]{2.8317} \times \sqrt[3]{10}$
- Look up $\log 2.832$: **0.45209**
- Divide $0.45209 \div 3 = 0.1507$.
- We still have to deal with the $\sqrt[3]{10}$ term: $\log 10 = 1$, so $1 \div 3 = 0.3333$

5. Add the two results: $0.1507 + 0.3333 = 0.4840$
6. Look up the anti-logarithm of 0.4840: **3.0479**
7. So $\sqrt[3]{28.317} \approx 3.0479$. Compare this with the calculated result, **3.0480** to 5 significant figures.

(If it is one's misfortune to have to work with "imperial" measurements, it will be quickly recognized that there are 28.317 litres [cubic decimetres] in a cubic foot, and 3.048 decimetres to the foot.)

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