

Common logarithm (base 10)

This is a table of common (base-10) logarithms.
After the table is the program that generated
the table.

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x	log(x)
1	0
1.001	0.00043408
1.002	0.00086772
1.003	0.00130093
1.004	0.00173371
1.005	0.00216606
1.006	0.00259798
1.007	0.00302947
1.008	0.00346053
1.009	0.00389117
1.01	0.00432137
1.011	0.00475116
1.012	0.00518051
1.013	0.00560945
1.014	0.00603795
1.015	0.00646604
1.016	0.00689371
1.017	0.00732095
1.018	0.00774778
1.019	0.00817418
1.02	0.00860017
1.021	0.00902574
1.022	0.0094509
1.023	0.00987563
1.024	0.01029996
1.025	0.01072387
1.026	0.01114736
1.027	0.01157044
1.028	0.01199311
1.029	0.01241537
1.03	0.01283722
1.031	0.01325867
1.032	0.0136797
1.033	0.01410032
1.034	0.01452054
1.035	0.01494035
1.036	0.01535976
1.037	0.01577876
1.038	0.01619735
1.039	0.01661555
1.04	0.01703334
1.041	0.01745073
1.042	0.01786772
1.043	0.01828431
1.044	0.0187005
1.045	0.01911629
1.046	0.01953168
1.047	0.01994668
1.048	0.02036128
1.049	0.02077549

1.05	0.0211893
1.051	0.02160272
1.052	0.02201574
1.053	0.02242837
1.054	0.02284061
1.055	0.02325246
1.056	0.02366392
1.057	0.02407499
1.058	0.02448567
1.059	0.02489596
1.06	0.02530587
1.061	0.02571538
1.062	0.02612452
1.063	0.02653326
1.064	0.02694163
1.065	0.02734961
1.066	0.0277572
1.067	0.02816442
1.068	0.02857125
1.069	0.02897771
1.07	0.02938378
1.071	0.02978947
1.072	0.03019479
1.073	0.03059972
1.074	0.03100428
1.075	0.03140846
1.076	0.03181227
1.077	0.0322157
1.078	0.03261876
1.079	0.03302144
1.08	0.03342376
1.081	0.03382569
1.082	0.03422726
1.083	0.03462846
1.084	0.03502928
1.085	0.03542974
1.086	0.03582983
1.087	0.03622954
1.088	0.0366289
1.089	0.03702788
1.09	0.0374265
1.091	0.03782475
1.092	0.03822264
1.093	0.03862016
1.094	0.03901732
1.095	0.03941412
1.096	0.03981055
1.097	0.04020663
1.098	0.04060234
1.099	0.04099769
1.1	0.04139269
1.101	0.04178732
1.102	0.04218159
1.103	0.04257551
1.104	0.04296907
1.105	0.04336228
1.106	0.04375513
1.107	0.04414762
1.108	0.04453976

1.109	0.04493155
1.11	0.04532298
1.111	0.04571406
1.112	0.04610479
1.113	0.04649516
1.114	0.04688519
1.115	0.04727487
1.116	0.04766419
1.117	0.04805317
1.118	0.0484418
1.119	0.04883009
1.12	0.04921802
1.121	0.04960561
1.122	0.04999286
1.123	0.05037976
1.124	0.05076631
1.125	0.05115252
1.126	0.05153839
1.127	0.05192392
1.128	0.0523091
1.129	0.05269394
1.13	0.05307844
1.131	0.0534626
1.132	0.05384643
1.133	0.05422991
1.134	0.05461305
1.135	0.05499586
1.136	0.05537833
1.137	0.05576046
1.138	0.05614226
1.139	0.05652372
1.14	0.05690485
1.141	0.05728564
1.142	0.0576661
1.143	0.05804623
1.144	0.05842602
1.145	0.05880549
1.146	0.05918462
1.147	0.05956342
1.148	0.05994189
1.149	0.06032003
1.15	0.06069784
1.151	0.06107532
1.152	0.06145248
1.153	0.06182931
1.154	0.06220581
1.155	0.06258198
1.156	0.06295783
1.157	0.06333336
1.158	0.06370856
1.159	0.06408344
1.16	0.06445799
1.161	0.06483222
1.162	0.06520613
1.163	0.06557971
1.164	0.06595298
1.165	0.06632593
1.166	0.06669855
1.167	0.06707086

1.168	0.06744284
1.169	0.06781451
1.17	0.06818586
1.171	0.0685569
1.172	0.06892761
1.173	0.06929801
1.174	0.0696681
1.175	0.07003787
1.176	0.07040732
1.177	0.07077646
1.178	0.07114529
1.179	0.07151381
1.18	0.07188201
1.181	0.0722499
1.182	0.07261748
1.183	0.07298474
1.184	0.0733517
1.185	0.07371835
1.186	0.07408469
1.187	0.07445072
1.188	0.07481644
1.189	0.07518185
1.19	0.07554696
1.191	0.07591176
1.192	0.07627626
1.193	0.07664044
1.194	0.07700433
1.195	0.07736791
1.196	0.07773118
1.197	0.07809415
1.198	0.07845682
1.199	0.07881918
1.2	0.07918125
1.201	0.07954301
1.202	0.07990447
1.203	0.08026563
1.204	0.08062649
1.205	0.08098705
1.206	0.08134731
1.207	0.08170727
1.208	0.08206693
1.209	0.0824263
1.21	0.08278537
1.211	0.08314414
1.212	0.08350262
1.213	0.0838608
1.214	0.08421869
1.215	0.08457628
1.216	0.08493357
1.217	0.08529058
1.218	0.08564729
1.219	0.08600371
1.22	0.08635983
1.221	0.08671566
1.222	0.08707121
1.223	0.08742646
1.224	0.08778142
1.225	0.08813609
1.226	0.08849047

1.227	0.08884456
1.228	0.08919837
1.229	0.08955188

1.23	0.08990511
1.231	0.09025805
1.232	0.09061071
1.233	0.09096308
1.234	0.09131516
1.235	0.09166696
1.236	0.09201847
1.237	0.0923697
1.238	0.09272064
1.239	0.09307131

1.24	0.09342169
1.241	0.09377178
1.242	0.0941216
1.243	0.09447113
1.244	0.09482038
1.245	0.09516935
1.246	0.09551804
1.247	0.09586645
1.248	0.09621459
1.249	0.09656244

1.25	0.09691001
1.251	0.09725731
1.252	0.09760433
1.253	0.09795107
1.254	0.09829754
1.255	0.09864373
1.256	0.09898964
1.257	0.09933528
1.258	0.09968064
1.259	0.10002573

1.26	0.10037055
1.261	0.10071509
1.262	0.10105935
1.263	0.10140335
1.264	0.10174707
1.265	0.10209053
1.266	0.10243371
1.267	0.10277661
1.268	0.10311925
1.269	0.10346162

1.27	0.10380372
1.271	0.10414555
1.272	0.10448711
1.273	0.1048284
1.274	0.10516943
1.275	0.10551018
1.276	0.10585067
1.277	0.1061909
1.278	0.10653085
1.279	0.10687054

1.28	0.10720997
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1.282	0.10788803
1.283	0.10822666
1.284	0.10856502
1.285	0.10890313

1.286	0.10924097
1.287	0.10957855
1.288	0.10991586
1.289	0.11025292
1.29	0.11058971
1.291	0.11092624
1.292	0.11126251
1.293	0.11159852
1.294	0.11193428
1.295	0.11226977
1.296	0.112605
1.297	0.11293998
1.298	0.11327469
1.299	0.11360915
1.3	0.11394335
1.301	0.1142773
1.302	0.11461098
1.303	0.11494442
1.304	0.11527759
1.305	0.11561051
1.306	0.11594318
1.307	0.11627559
1.308	0.11660774
1.309	0.11693965
1.31	0.1172713
1.311	0.11760269
1.312	0.11793384
1.313	0.11826473
1.314	0.11859537
1.315	0.11892575
1.316	0.11925589
1.317	0.11958577
1.318	0.11991541
1.319	0.1202448
1.32	0.12057393
1.321	0.12090282
1.322	0.12123146
1.323	0.12155984
1.324	0.12188799
1.325	0.12221588
1.326	0.12254352
1.327	0.12287092
1.328	0.12319808
1.329	0.12352498
1.33	0.12385164
1.331	0.12417806
1.332	0.12450422
1.333	0.12483015
1.334	0.12515583
1.335	0.12548127
1.336	0.12580646
1.337	0.12613141
1.338	0.12645611
1.339	0.12678058
1.34	0.1271048
1.341	0.12742878
1.342	0.12775252
1.343	0.12807601
1.344	0.12839927

1.345	0.12872228
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1.347	0.1293676
1.348	0.12968989
1.349	0.13001195

1.35	0.13033377
1.351	0.13065535
1.352	0.13097669
1.353	0.1312978
1.354	0.13161866
1.355	0.1319393
1.356	0.13225969
1.357	0.13257985
1.358	0.13289977
1.359	0.13321946

1.36	0.13353891
1.361	0.13385813
1.362	0.13417711
1.363	0.13449586
1.364	0.13481437
1.365	0.13513265
1.366	0.1354507
1.367	0.13576851
1.368	0.1360861
1.369	0.13640345

1.37	0.13672057
1.371	0.13703745
1.372	0.13735411
1.373	0.13767054
1.374	0.13798673
1.375	0.1383027
1.376	0.13861843
1.377	0.13893394
1.378	0.13924922
1.379	0.13956427

1.38	0.13987909
1.381	0.14019368
1.382	0.14050804
1.383	0.14082218
1.384	0.14113609
1.385	0.14144977
1.386	0.14176323
1.387	0.14207646
1.388	0.14238947
1.389	0.14270225

1.39	0.1430148
1.391	0.14332713
1.392	0.14363924
1.393	0.14395112
1.394	0.14426277
1.395	0.14457421
1.396	0.14488542
1.397	0.14519641
1.398	0.14550717
1.399	0.14581771

1.4	0.14612804
1.401	0.14643814
1.402	0.14674801
1.403	0.14705767

1.404	0.14736711
1.405	0.14767632
1.406	0.14798532
1.407	0.1482941
1.408	0.14860265
1.409	0.14891099

1.41	0.14921911
1.411	0.14952701
1.412	0.1498347
1.413	0.15014216
1.414	0.15044941
1.415	0.15075644
1.416	0.15106325
1.417	0.15136985
1.418	0.15167623
1.419	0.1519824

1.42	0.15228834
1.421	0.15259408
1.422	0.1528996
1.423	0.1532049
1.424	0.15350999
1.425	0.15381486
1.426	0.15411953
1.427	0.15442397
1.428	0.15472821
1.429	0.15503223

1.43	0.15533604
1.431	0.15563963
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1.433	0.15624619
1.434	0.15654915
1.435	0.1568519
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1.437	0.15745677
1.438	0.15775889
1.439	0.15806079

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1.443	0.15926633
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1.445	0.15986785
1.446	0.16016829
1.447	0.16046853
1.448	0.16076856
1.449	0.16106839

1.45	0.161368
1.451	0.16166741
1.452	0.16196662
1.453	0.16226561
1.454	0.16256441
1.455	0.16286299
1.456	0.16316138
1.457	0.16345955
1.458	0.16375752
1.459	0.16405529

1.46	0.16435286
1.461	0.16465022
1.462	0.16494737

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1.464	0.16554108
1.465	0.16583762
1.466	0.16613397
1.467	0.16643011
1.468	0.16672606
1.469	0.1670218

1.47	0.16731733
1.471	0.16761267
1.472	0.16790781
1.473	0.16820275
1.474	0.16849748
1.475	0.16879202
1.476	0.16908636
1.477	0.1693805
1.478	0.16967443
1.479	0.16996817

1.48	0.17026172
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1.483	0.17114115
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1.493	0.17405981
1.494	0.1743506
1.495	0.17464119
1.496	0.17493159
1.497	0.1752218
1.498	0.17551181
1.499	0.17580163

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1.502	0.17666993
1.503	0.17695898
1.504	0.17724784
1.505	0.1775365
1.506	0.17782497
1.507	0.17811325
1.508	0.17840134
1.509	0.17868924

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1.512	0.17955179
1.513	0.17983893
1.514	0.18012588
1.515	0.18041263
1.516	0.1806992
1.517	0.18098558
1.518	0.18127177
1.519	0.18155777

1.52	0.18184359
1.521	0.18212921

1.522	0.18241465
1.523	0.1826999
1.524	0.18298497
1.525	0.18326984
1.526	0.18355453
1.527	0.18383904
1.528	0.18412335
1.529	0.18440749

1.53	0.18469143
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1.534	0.18582536
1.535	0.18610838
1.536	0.18639122
1.537	0.18667387
1.538	0.18695634
1.539	0.18723862

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1.544	0.1886473
1.545	0.18892848
1.546	0.18920949
1.547	0.18949031
1.548	0.18977096
1.549	0.19005142

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1.552	0.19089172
1.553	0.19117146
1.554	0.19145101
1.555	0.19173039
1.556	0.19200959
1.557	0.19228861
1.558	0.19256745
1.559	0.19284612

1.56	0.1931246
1.561	0.1934029
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1.565	0.19451434
1.566	0.19479176
1.567	0.195069
1.568	0.19534606
1.569	0.19562294

1.57	0.19589965
1.571	0.19617619
1.572	0.19645254
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1.574	0.19700473
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1.576	0.19755621
1.577	0.19783169
1.578	0.198107
1.579	0.19838213

1.58	0.19865709
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1.589	0.2011239

1.59	0.20139712
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1.592	0.20194306
1.593	0.20221578
1.594	0.20248832
1.595	0.20276069
1.596	0.20303289
1.597	0.20330492
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1.599	0.20384846

1.6	0.20411998
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1.605	0.20547504
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1.607	0.20601588
1.608	0.20628604
1.609	0.20655604

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1.613	0.20763437
1.614	0.20790353
1.615	0.20817253
1.616	0.20844136
1.617	0.20871002
1.618	0.20897852
1.619	0.20924685

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1.621	0.20978301
1.622	0.21005085
1.623	0.21031852
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1.625	0.21085337
1.626	0.21112054
1.627	0.21138755
1.628	0.2116544
1.629	0.21192108

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1.634	0.21325205
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1.636	0.2137833
1.637	0.21404868
1.638	0.2143139
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1.646	0.21642983
1.647	0.2166936
1.648	0.21695721
1.649	0.21722066

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1.651	0.21774707
1.652	0.21801004
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1.654	0.21853551
1.655	0.218798
1.656	0.21906033
1.657	0.21932251
1.658	0.21958453
1.659	0.21984639

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1.662	0.22063102
1.663	0.22089225
1.664	0.22115332
1.665	0.22141424
1.666	0.221675
1.667	0.2219356
1.668	0.22219605
1.669	0.22245634

1.67	0.22271647
1.671	0.22297645
1.672	0.22323627
1.673	0.22349594
1.674	0.22375545
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1.676	0.22427401
1.677	0.22453306
1.678	0.22479196
1.679	0.2250507

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1.684	0.22634209
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1.689	0.22762965

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1.693	0.22865696
1.694	0.22891341
1.695	0.2291697
1.696	0.22942585
1.697	0.22968184
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1.702	0.23095956
1.703	0.23121465
1.704	0.23146959
1.705	0.23172438
1.706	0.23197903
1.707	0.23223352
1.708	0.23248787
1.709	0.23274206

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1.712	0.23350376
1.713	0.23375736
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9.467	0.97621238
9.468	0.97625825
9.469	0.97630412

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9.471	0.97639584
9.472	0.97644169
9.473	0.97648754
9.474	0.97653338
9.475	0.97657922
9.476	0.97662505
9.477	0.97667088
9.478	0.9767167
9.479	0.97676252

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9.486	0.97708312
9.487	0.9771289
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9.489	0.97722045

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9.492	0.97735773
9.493	0.97740348
9.494	0.97744923
9.495	0.97749497
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9.497	0.97758644
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9.499	0.97767789

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9.538	0.97945732
9.539	0.97950285

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9.549	0.97995789

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9.585	0.98159212
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9.593	0.98195444
9.594	0.98199971
9.595	0.98204498
9.596	0.98209024
9.597	0.9821355
9.598	0.98218075
9.599	0.98222599
9.6	0.98227123
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9.602	0.9823617
9.603	0.98240693
9.604	0.98245215
9.605	0.98249737
9.606	0.98254258
9.607	0.98258779
9.608	0.98263299
9.609	0.98267819
9.61	0.98272339
9.611	0.98276858
9.612	0.98281376
9.613	0.98285894
9.614	0.98290412
9.615	0.98294929
9.616	0.98299445
9.617	0.98303962

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9.62	0.98317507
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9.622	0.98326535
9.623	0.98331049
9.624	0.98335561
9.625	0.98340074
9.626	0.98344586
9.627	0.98349097
9.628	0.98353608
9.629	0.98358119
9.63	0.98362629
9.631	0.98367138
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9.634	0.98380664
9.635	0.98385172
9.636	0.98389679
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9.716	0.98748751
9.717	0.9875322
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9.722	0.98775562
9.723	0.98780029
9.724	0.98784495
9.725	0.98788961
9.726	0.98793427
9.727	0.98797892
9.728	0.98802356
9.729	0.9880682

9.73	0.98811284
9.731	0.98815747
9.732	0.9882021
9.733	0.98824672
9.734	0.98829134
9.735	0.98833596

9.736	0.98838057
9.737	0.98842517
9.738	0.98846977
9.739	0.98851437
9.74	0.98855896
9.741	0.98860354
9.742	0.98864813
9.743	0.9886927
9.744	0.98873728
9.745	0.98878184
9.746	0.98882641
9.747	0.98887097
9.748	0.98891552
9.749	0.98896007
9.75	0.98900462
9.751	0.98904916
9.752	0.98909369
9.753	0.98913822
9.754	0.98918275
9.755	0.98922727
9.756	0.98927179
9.757	0.98931631
9.758	0.98936081
9.759	0.98940532
9.76	0.98944982
9.761	0.98949431
9.762	0.9895388
9.763	0.98958329
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9.766	0.98971672
9.767	0.98976119
9.768	0.98980565
9.769	0.98985011
9.77	0.98989456
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9.772	0.98998346
9.773	0.9900279
9.774	0.99007233
9.775	0.99011677
9.776	0.99016119
9.777	0.99020562
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9.786	0.99060521
9.787	0.99064959
9.788	0.99069396
9.789	0.99073833
9.79	0.99078269
9.791	0.99082705
9.792	0.99087141
9.793	0.99091575
9.794	0.9909601

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9.797	0.99109311
9.798	0.99113744
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9.803	0.991359
9.804	0.9914033
9.805	0.9914476
9.806	0.99149189
9.807	0.99153618
9.808	0.99158046
9.809	0.99162473

9.81	0.99166901
9.811	0.99171328
9.812	0.99175754
9.813	0.9918018
9.814	0.99184605
9.815	0.9918903
9.816	0.99193455
9.817	0.99197879
9.818	0.99202303
9.819	0.99206726

9.82	0.99211149
9.821	0.99215571
9.822	0.99219993
9.823	0.99224414
9.824	0.99228835
9.825	0.99233256
9.826	0.99237676
9.827	0.99242096
9.828	0.99246515
9.829	0.99250934

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9.832	0.99264187
9.833	0.99268604
9.834	0.9927302
9.835	0.99277436
9.836	0.99281852
9.837	0.99286267
9.838	0.99290682
9.839	0.99295096

9.84	0.9929951
9.841	0.99303923
9.842	0.99308336
9.843	0.99312749
9.844	0.99317161
9.845	0.99321572
9.846	0.99325983
9.847	0.99330394
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9.849	0.99339214

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9.853	0.99356848

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9.855	0.99365663
9.856	0.9937007
9.857	0.99374476
9.858	0.99378881
9.859	0.99383287

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9.863	0.99400903
9.864	0.99405306
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9.878	0.99466902
9.879	0.99471299

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9.884	0.99493274
9.885	0.99497667
9.886	0.99502061
9.887	0.99506453
9.888	0.99510846
9.889	0.99515238

9.89	0.99519629
9.891	0.9952402
9.892	0.99528411
9.893	0.99532801
9.894	0.99537191
9.895	0.9954158
9.896	0.99545969
9.897	0.99550357
9.898	0.99554745
9.899	0.99559132

9.9	0.99563519
9.901	0.99567906
9.902	0.99572292
9.903	0.99576678
9.904	0.99581063
9.905	0.99585448
9.906	0.99589832
9.907	0.99594216
9.908	0.995986
9.909	0.99602983

9.91	0.99607365
9.911	0.99611748
9.912	0.99616129

9.913	0.99620511
9.914	0.99624891
9.915	0.99629272
9.916	0.99633652
9.917	0.99638031
9.918	0.9964241
9.919	0.99646789

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9.921	0.99655545
9.922	0.99659922
9.923	0.99664299
9.924	0.99668676
9.925	0.99673052
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9.927	0.99681802
9.928	0.99686177
9.929	0.99690551

9.93	0.99694925
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9.933	0.99708044
9.934	0.99712416
9.935	0.99716787
9.936	0.99721158
9.937	0.99725529
9.938	0.99729899
9.939	0.99734269

9.94	0.99738638
9.941	0.99743007
9.942	0.99747376
9.943	0.99751744
9.944	0.99756112
9.945	0.99760479
9.946	0.99764846
9.947	0.99769212
9.948	0.99773578
9.949	0.99777943

9.95	0.99782308
9.951	0.99786673
9.952	0.99791037
9.953	0.997954
9.954	0.99799764
9.955	0.99804126
9.956	0.99808489
9.957	0.99812851
9.958	0.99817212
9.959	0.99821573

9.96	0.99825934
9.961	0.99830294
9.962	0.99834654
9.963	0.99839013
9.964	0.99843372
9.965	0.9984773
9.966	0.99852088
9.967	0.99856446
9.968	0.99860803
9.969	0.9986516

9.97	0.99869516
9.971	0.99873872

9.972	0.99878227
9.973	0.99882582
9.974	0.99886936
9.975	0.9989129
9.976	0.99895644
9.977	0.99899997
9.978	0.9990435
9.979	0.99908702

9.98	0.99913054
9.981	0.99917406
9.982	0.99921757
9.983	0.99926107
9.984	0.99930457
9.985	0.99934807
9.986	0.99939156
9.987	0.99943505
9.988	0.99947853
9.989	0.99952201

9.99	0.99956549
9.991	0.99960896
9.992	0.99965243
9.993	0.99969589
9.994	0.99973935
9.995	0.9997828
9.996	0.99982625
9.997	0.99986969
9.998	0.99991313
9.999	0.99995657

10	1
----	---

Here is the Java program that uses a Taylor series to calculate the natural (base-e) logarithm, and then multiplies to convert this value to the base-10 logarithm. (Note: A Taylor series is a calculus topic.)

```
import java.io.*;
import java.text.*;

public class logtab {

    /*method*/ public static void main(String args[]) {
        try {

            DecimalFormat df=new DecimalFormat("###.#####");

            DataOutput f2=new DataOutputStream(new FileOutputStream(args[0]));

            f2.writeBytes(" x          log(x)\r\n");

            double x=1.0;
            double dx=0.001;
            double dx2=dx*dx;
            double dx3=dx2*dx;
            double dx4=dx3*dx;
            double dx5=dx4*dx;
            double dx6=dx5*dx;
            double dx7=dx6*dx;

            double nlog=0.0; /*natural logarithm*/
```

```

for (int i=1; i<=9001; i++) {
    double x2=x*x;
    double x3=x2*x;
    double x4=x3*x;
    double x5=x4*x;
    double x6=x5*x;
    double x7=x6*x;

    double log10=nlog*0.434294482; /*convert natural logarithm
                                   to base 10 logarithm*/

    String xs=df.format(x);
        if (xs.length()==1) {xs+="    ";}
    else if (xs.length()==2) {xs+="  ";}
    else if (xs.length()==3) {xs+=" ";}
    else if (xs.length()==4) {xs+=" ";}

    /*output*/
    f2.writeBytes(xs+"    "+df.format(log10)+"\r\n");

    if ((i%10)==0) f2.writeBytes(" \r\n");

    /*natural logarithm approximation using Taylor series*/
    nlog+=dx/x-dx2/(2*x2)+dx3/(3*x3)-dx4/(4*x4)+dx5/(5*x5)
        -dx6/(6*x6)+dx7/(7*x7);

    x+=dx;
        } /*end i loop*/

    } catch (Exception ex) {String err=ex.toString();
                           System.out.print(err);}
} /*end main*/
} /*end logtab*/

```