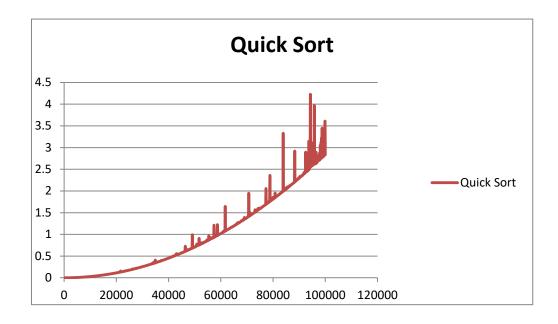
## Observations

Merge Sort

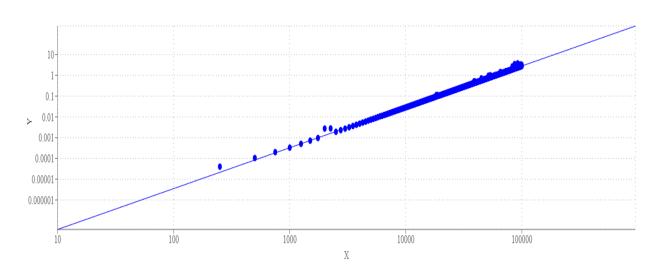
Merge sort has time complexity for best, average and worst as O(n logn), O(n logn) and O(n logn); While the time taken increases with increase in number of elements it is less than Selection sort

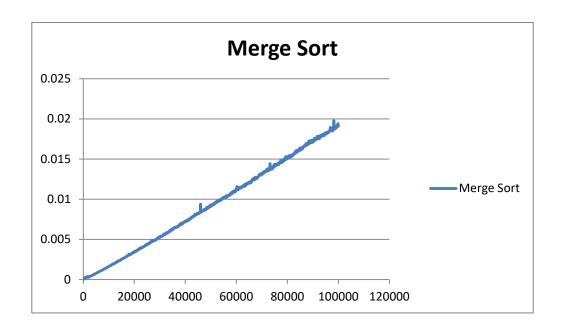
Quick Sort

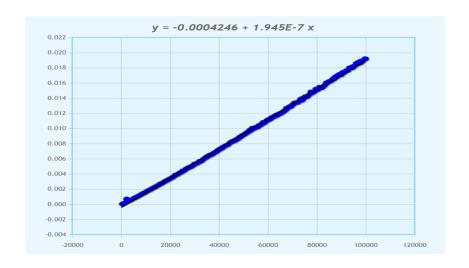
Quick sort has time complexity for best, average and worst as O(n logn), O(n logn) and O(n^2); While the time taken increases with increase in number of elements it is less than Selection sort



Chart







N	Merge Sort	Quick Sort
100	0.000032	0.000023
200	0.000069	0.000053
300	0.000087	0.000096
400	0.000134	0.000149
500	0.000171	0.000229
600	0.00018	0.000303
700	0.000229	0.000397
800	0.000244	0.000502
900	0.000274	0.000615
1000	0.000306	0.000694
1100	0.000233	0.000622

1200	0.000256	0.000729
1300	0.000277	0.000821
1400	0.000299	0.000968
1500	0.00033	0.001066
1600	0.000346	0.001212
1700	0.000368	0.001368
1800	0.000397	0.001386
1900	0.000271	0.001134
2000	0.000292	0.001246
2100	0.000302	0.00137
2200	0.000321	0.001466
2300	0.000321	0.001605
2400	0.000333	0.001741
2500	0.000348	0.001741
2600	0.000303	0.001910
	0.000383	
2700		0.002175
2800	0.00042	0.002352
2900	0.000433	0.002564
3000	0.000451	0.002696
3100	0.000463	0.002879
3200	0.000475	0.003053
3300	0.0005	0.003229
3400	0.000517	0.003428
3500	0.000528	0.003611
3600	0.000545	0.003884
3700	0.000558	0.004051
3800	0.000576	0.004265
3900	0.0006	0.004485
4000	0.000607	0.004692
4100	0.000626	0.004918
4200	0.000642	0.005164
4300	0.000659	0.005428
4400	0.000675	0.00565
4500	0.0007	0.005898
4600	0.000704	0.006181
4700	0.000725	0.006439
4800	0.000748	0.006714
4900	0.000757	0.007038
5000	0.000778	0.007278
5100	0.000791	0.007571
5200	0.000813	0.007899
5300	0.00083	0.008171
5400	0.000848	0.008498
5500	0.000848	0.008438
5600	0.000887	0.00881
5700	0.000887	0.009131
5800	0.000914	0.009788

5900	0.000927	0.010148
6000	0.000949	0.010399
6100	0.000958	0.010789
6200	0.000975	0.011089
6300	0.001005	0.01145
6400	0.001018	0.011814
6500	0.001037	0.012169
6600	0.001051	0.012597
6700	0.001065	0.012963
6800	0.001086	0.013334
6900	0.001104	0.013717
7000	0.001108	0.01409
7100	0.001122	0.014635
7200	0.001133	0.014918
7300	0.001157	0.015327
7400	0.001179	0.015762
7500	0.001199	0.016195
7600	0.001217	0.016586
7700	0.00123	0.017012
7800	0.001245	0.017531
7900	0.001264	0.017936
8000	0.001287	0.018376
8100	0.001295	0.018857
8200	0.001313	0.019391
8300	0.001325	0.0198
8400	0.001352	0.020303
8500	0.001378	0.020733
8600	0.001399	0.021218
8700	0.001417	0.02167
8800	0.001421	0.022214
8900	0.001441	0.022712
9000	0.001456	0.023269
9100	0.001478	0.023792
9200	0.001489	0.024296
9300	0.001496	0.024766
9400	0.001523	0.025266
9500	0.001535	0.025794
9600	0.001547	0.02638
9700	0.001566	0.02693
9800	0.001597	0.027482
9900	0.001624	0.028015
10000	0.00162	0.028602
10100	0.001644	0.029165
10200	0.001659	0.029845
10300	0.001679	0.03036
10400	0.001702	0.030871
10500	0.00172	0.031505

10600	0.001731	0.032091
10700	0.001745	0.032854
10800	0.001762	0.033474
10900	0.001798	0.034055
11000	0.001822	0.034644
11100	0.001848	0.035287
11200	0.001837	0.036042
11300	0.001858	0.03659
11400	0.001898	0.037163
11500	0.001904	0.037861
11600	0.00191	0.038429
11700	0.001936	0.039148
11800	0.001946	0.039866
11900	0.001971	0.040413
12000	0.001984	0.041207
12100	0.002002	0.041958
12200	0.002019	0.042577
12300	0.002011	0.04312
12400	0.002051	0.04393
12500	0.002057	0.044648
12600	0.002089	0.04532
12700	0.002109	0.046272
12800	0.00216	0.046884
12900	0.002148	0.047584
13000	0.002153	0.04824
13100	0.002193	0.049067
13200	0.002214	0.0497
13300	0.002189	0.050381
13400	0.002232	0.051161
13500	0.002284	0.052011
13600	0.002296	0.052868
13700	0.00232	0.053679
13800	0.002353	0.054221
13900	0.002351	0.055206
14000	0.002316	0.056081
14100	0.002332	0.056789
14200	0.002366	0.057399
14300	0.002386	0.058156
14400	0.002397	0.058975
14500	0.002411	0.059758
14600	0.002411	0.06065
14700	0.002451	0.061461
14800	0.002431	0.062349
14900	0.002483	0.06318
15000	0.002501	0.06318
15100	0.002534	0.06392
15200	0.002561	0.06556

15300	0.002576	0.066476
15400	0.002578	0.067334
15500	0.002611	0.068426
15600	0.002629	0.069086
15700	0.002629	0.070038
15800	0.002667	0.070030
	0.002662	0.070841
15900		
16000	0.00269	0.072792
16100	0.002704	0.074321
16200	0.002724	0.07462
16300	0.002741	0.07547
16400	0.002763	0.076332
16500	0.002791	0.077281
16600	0.002806	0.078102
16700	0.002849	0.079221
16800	0.002863	0.080172
16900	0.002859	0.081317
17000	0.002877	0.082386
17100	0.002903	0.083048
17200	0.002935	0.084279
17300	0.00294	0.085261
17400	0.00294	0.083261
17500	0.003001	0.087104
17600	0.002998	0.088336
17700	0.003017	0.089283
17800	0.00306	0.090088
17900	0.003163	0.090971
18000	0.003114	0.092151
18100	0.003077	0.093148
18200	0.003097	0.093854
18300	0.003101	0.09526
18400	0.003115	0.096048
18500	0.003115	0.097277
18600	0.00314	0.09827
18700	0.003177	0.099165
18800	0.003226	0.100209
18900	0.003199	0.101384
19000	0.003223	0.10241
19100	0.003248	0.10241
		0.103300
19200	0.003277	
19300	0.00329	0.105944
19400	0.00334	0.106987
19500	0.003354	0.108025
19600	0.003423	0.108931
19700	0.003358	0.110354
19800	0.003405	0.111007
19900	0.003405	0.112616

20000	0.003423	0.113481
20100	0.003475	0.114784
20200	0.003444	0.116161
20300	0.003531	0.116884
20400	0.003487	0.118053
20500	0.003532	0.119104
20600	0.003521	0.119971
20700	0.00352	0.120992
20800	0.003544	0.122291
20900	0.003613	0.123698
21000	0.003594	0.124995
21100	0.003554	0.124353
21200	0.003617	0.127134
21300	0.003655	0.129171
21400	0.00367	0.130038
21500	0.003696	0.131296
21600	0.003795	0.156655
21700	0.003805	0.134402
21800	0.003766	0.135021
21900	0.003812	0.13582
22000	0.003812	0.13748
22100	0.003859	0.138855
22200	0.003857	0.139853
22300	0.003863	0.141251
22400	0.003895	0.142363
22500	0.003939	0.145831
22600	0.003871	0.145088
22700	0.003963	0.14611
22800	0.003989	0.147701
22900	0.003964	0.149
23000	0.003304	0.150024
23100	0.003998	0.152012
23200	0.004011	0.157412
23300	0.00404	0.153979
23400	0.004076	0.155103
23500	0.004046	0.156735
23600	0.004074	0.159642
23700	0.004103	0.161695
23800	0.004106	0.163005
23900	0.004129	0.162312
24000	0.004125	0.164202
24100	0.004213	0.165083
24200	0.004198	0.166266
24300	0.004221	0.167676
24400	0.004229	0.169247
24500	0.004243	0.170249
24600	0.004264	0.171725

24700	0.004387	0.173341
24800	0.004324	0.175327
24600	0.004324	0.1/552/
24900	0.004317	0.176398
25000	0.004356	0.177742
25100	0.004362	0.178483
25200	0.004396	0.179952
25300	0.004406	0.182075
25400	0.004417	0.183118
25500	0.004498	0.184553
25600	0.004484	0.185866
25700	0.004461	0.187344
25800	0.004488	0.189539
25900	0.004528	0.190594
26000	0.004613	0.192739
26100	0.004609	0.193356
26200	0.004568	0.195026
26300	0.004695	0.205328
26400	0.00461	0.197741
26500	0.004635	0.199266
26600	0.004682	0.200974
26700	0.004743	0.202116
26800	0.004817	0.204201
26900	0.004751	0.205727
27000	0.004784	0.207177
27100	0.004779	0.209227
27200	0.004791	0.210532
27300	0.004756	0.212057
27400	0.00484	0.213459
27500	0.004847	0.214679
27600	0.004852	0.220212
27700	0.004838	0.217605
27800	0.004861	0.219436
27900	0.004841	0.220919
28000	0.004943	0.22263
28100	0.004932	0.224557
28200	0.004936	0.226224
28300	0.00497	0.227018
28400	0.004953	0.227981
28500	0.004973	0.229384
28600	0.004958	0.231771
28700	0.004978	0.233683
28800	0.005061	0.236155
28900	0.005047	0.237074
29000	0.005076	0.238976
29100	0.005121	0.240347
29200	0.00511	0.241723
29300	0.005171	0.243757

29400	0.005265	0.244999
29500	0.005162	0.246578
29600	0.005209	0.249293
29700	0.005238	0.249937
29800	0.005235	0.252232
29900	0.005276	0.253889
30000	0.005262	0.255156
30100	0.005337	0.257602
30200	0.00536	0.25884
30300	0.00530	0.260902
30400	0.005351	0.262698
30500	0.005349	0.263612
30600	0.005385	0.26563
30700	0.005379	0.267392
30800	0.005407	0.268453
30900	0.005409	0.270416
31000	0.005446	0.271977
31100	0.005437	0.273047
31200	0.005451	0.275058
31300	0.005529	0.278358
31400	0.005637	0.279905
31500	0.005572	0.281734
31600	0.005576	0.283678
31700	0.005564	0.285758
31800	0.005586	0.287901
31900	0.005697	0.28918
32000	0.005613	0.290013
32100	0.005638	0.294544
32200	0.005706	0.293883
32300	0.005705	0.295635
32400	0.005703	0.297234
32500	0.00572	0.297234
32600	0.005701	0.293673
32700	0.005847	0.303899
32800	0.005857	0.305304
32900	0.0058	0.306561
33000	0.005823	0.308975
33100	0.00587	0.310005
33200	0.005844	0.311392
33300	0.005874	0.31374
33400	0.005893	0.315252
33500	0.005955	0.320199
33600	0.005977	0.321551
33700	0.006006	0.321962
33800	0.00596	0.324826
33900	0.006067	0.344304
34000	0.006111	0.328055

34100	0.006029	0.32981
34200	0.006184	0.331481
34300	0.006103	0.333565
34400	0.006208	0.357852
34500	0.006209	0.336576
34600	0.006174	0.338741
34700	0.006223	0.341016
34800	0.006188	0.34255
34900	0.006188	0.407374
35000	0.006191	0.347291
35100	0.00638	
		0.347723
35200	0.006252	0.349836
35300	0.006388	0.353191
35400	0.006338	0.354996
35500	0.00637	0.357182
35600	0.006386	0.359499
35700	0.006452	0.361105
35800	0.00648	0.363388
35900	0.006458	0.36584
36000	0.006494	0.366873
36100	0.006455	0.368963
36200	0.006539	0.370784
36300	0.006546	0.372595
36400	0.006528	0.374286
36500	0.006498	0.377234
36600	0.006515	0.37855
36700	0.006542	0.381177
36800	0.006569	0.382693
36900	0.006563	0.383397
37000	0.006531	0.385737
37100	0.006634	0.389239
37200	0.006629	0.39902
37300	0.006671	0.394009
37400	0.006734	0.396421
37500	0.006674	0.398158
37600	0.006735	0.400034
37700	0.006769	0.401743
37800	0.006825	0.404266
37900	0.006895	0.406319
38000	0.006783	0.408539
38100	0.006829	0.410094
38200	0.00689	0.41284
38300	0.006957	0.415439
38400	0.007016	0.417236
38500	0.006997	0.417461
38600	0.006893	0.420349
38700	0.006922	0.422478

38800	0.00692	0.426026
38900	0.006938	0.427446
39000	0.006961	0.430636
39100	0.007073	0.432537
39200	0.007051	0.434821
39300	0.007131	0.437699
39400	0.007077	0.439225
39500	0.007141	0.441746
39600	0.007181	0.443971
39700	0.007221	0.445409
39800	0.007254	0.448647
39900	0.007179	0.450509
40000	0.007199	0.451652
40100	0.007135	0.452933
40200	0.007233	0.456467
40300	0.00727	0.458181
	0.007251	
40400		0.46141
40500	0.007321	0.463357
40600	0.007388	0.466377
40700	0.007317	0.468482
40800	0.007335	0.470373
40900	0.007345	0.473466
41000	0.007377	0.475385
41100	0.007396	0.482756
41200	0.007343	0.480456
41300	0.007406	0.482812
41400	0.007519	0.487504
41500	0.007444	0.487005
41600	0.00749	0.489308
41700	0.007555	0.492092
41800	0.007563	0.494456
41900	0.007604	0.504984
42000	0.00759	0.502242
42100	0.007595	0.507558
42200	0.007695	0.503652
42300	0.007628	0.505576
42400	0.007719	0.50838
42500	0.007681	0.510909
42600	0.007733	0.513727
42700	0.007802	0.51775
42800	0.007846	0.523144
42900	0.007842	0.547922
43000	0.007842	0.530149
43100	0.007811	0.557112
43200		
	0.007844	0.529314
43300	0.007903	0.530196
43400	0.007891	0.536127

43500	0.007935	0.535603
43600	0.008005	0.537855
43700	0.008113	0.540532
43800	0.008019	0.543225
43900	0.008045	0.545369
44000	0.008064	0.547771
44100	0.008063	0.550605
44200	0.008072	0.554895
44300	0.008064	0.555574
44400	0.008179	0.556257
44500	0.008093	0.560077
44600	0.008196	0.563214
44700	0.008221	0.566887
44800	0.00826	0.567716
44900	0.008186	0.570392
45000	0.008257	0.574494
45100	0.008192	0.577213
45200	0.008221	0.576632
45300	0.008212	0.580639
45400	0.008334	0.583442
45500	0.008303	0.586115
45600	0.0083	0.585364
45700	0.008295	0.589952
45800	0.00838	0.593259
45900	0.008377	0.597825
46000	0.009387	0.599187
46100	0.003387	0.601367
46200	0.008423	0.605553
46300	0.008455	0.607231
46400	0.008539	0.727141
46500	0.008548	0.62025
46600	0.008515	0.61517
46700	0.008515	0.615276
46800	0.00855	0.623284
46900	0.008514	0.623284
47000	0.008572	0.626151
47100	0.008572	0.647053
47100	0.008573	0.630877
47200		
	0.00869	0.634484
47400	0.008714	0.63664
47500	0.008697	0.63905
47600	0.00872	0.640688
47700	0.008631	0.648684
47800	0.008692	0.653978
47900	0.008714	0.649917
48000	0.008774	0.652999
48100	0.008741	0.658246

48200	0.008879	0.658757
48300	0.00877	0.665647
48400	0.008883	0.664364
48500	0.008839	0.670354
48600	0.009026	0.672928
48700	0.0089	0.671584
48800	0.008909	0.680026
48900	0.008899	0.681793
49000	0.008942	0.679589
49100	0.008962	0.992044
49200	0.008997	0.685998
49300	0.009072	0.696689
49400	0.009006	0.691011
49500	0.009152	0.697487
49600	0.00905	0.699609
49700	0.009138	0.699772
49800	0.009138	0.70147
49900	0.009311	0.70147
50000	0.009311	0.704421
	0.009228	0.708133
50100		
50200	0.009171	0.713639
50300	0.009283	0.717025
50400	0.00928	0.718914
50500	0.009234	0.72018
50600	0.009331	0.725901
50700	0.009338	0.736077
50800	0.009268	0.776342
50900	0.009353	0.742673
51000	0.0094	0.745894
51100	0.009467	0.760501
51200	0.009353	0.751928
51300	0.009483	0.74454
51400	0.009394	0.747655
51500	0.009479	0.751507
51600	0.009445	0.758991
51700	0.009537	0.908884
51800	0.009575	0.760322
51900	0.00966	0.770228
52000	0.009613	0.765795
52100	0.009569	0.764951
52200	0.00958	0.774733
52300	0.009593	0.776266
52400	0.00967	0.778176
52500	0.009787	0.780754
52600	0.009765	0.80725
52700	0.009699	0.797035
52800	0.009707	0.788919
32000	0.005707	5.766515

52900	0.009713	0.793271
53000	0.009771	0.79485
53100	0.009894	0.798096
53200	0.009871	0.803482
53300	0.009812	0.811498
53400	0.0099	0.807454
53500	0.009845	0.80999
53600	0.009832	0.811353
53700	0.009883	0.815444
53800	0.009871	0.813444
53900	0.009871	0.824587
54000	0.009956	0.826932
54100	0.009933	0.829699
54200	0.010011	0.834372
54300	0.010018	0.83546
54400	0.009978	0.843457
54500	0.010067	0.840261
54600	0.010142	0.867819
54700	0.01019	0.85424
54800	0.010175	0.870594
54900	0.010232	0.853276
55000	0.010145	0.859872
55100	0.010168	0.861832
55200	0.010171	0.86352
55300	0.010207	0.869053
55400	0.010197	0.965564
55500	0.010242	0.878598
55600	0.010307	0.877201
55700	0.01018	0.877996
55800	0.010196	0.891533
55900	0.010347	0.887554
56000	0.010347	0.928293
56100	0.010443	0.899281
56200	0.010209	0.899281
56300	0.010349	0.907729
56400	0.010331	0.90736
56500	0.010316	0.902991
56600	0.010432	0.916771
56700	0.010404	0.915593
56800	0.010432	0.914519
56900	0.010496	0.925755
57000	0.010502	0.920266
57100	0.010494	0.921312
57200	0.010549	0.927623
57300	0.010561	0.929186
57400	0.010475	1.211944
57500	0.010557	0.941578

57600   0.010659   0.93797     57700   0.01067   0.942386     57800   0.010614   0.944009     57900   0.01079   0.950217     58000   0.01071   0.954199     58100   0.010827   0.956972     58200   0.010835   0.962017     58300   0.010802   0.963275     58400   0.010702   0.963797     58500   0.01084   0.970477     58600   0.010932   1.223919     58700   0.010932   1.223919     58800   0.010997   0.979651     58900   0.010957   0.983282     59000   0.01035   0.983538     59100   0.010885   0.989138     59200   0.010958   1.000463     59500   0.010886   1.002683     59600   0.011078   1.002937     59700   0.011138   1.002937     59800   0.011048   1.01239     59900   0.011138   1.01209			
57800   0.010614   0.944009     57900   0.01079   0.950217     58000   0.01071   0.954199     58100   0.010727   0.956972     58200   0.010835   0.962017     58300   0.010802   0.963275     58400   0.010702   0.963797     58500   0.010894   0.970477     58600   0.01084   0.973284     58700   0.010932   1.223919     58800   0.010997   0.979651     58900   0.010957   0.983282     59000   0.01085   0.983138     59100   0.010885   0.989138     59200   0.010983   0.993707     59300   0.010958   1.000463     59500   0.010886   1.002683     59600   0.011078   1.002937     59700   0.011138   1.002937     59700   0.011138   1.002937     59900   0.011138   1.01209     60000   0.011268   1.019			
57900   0.01079   0.950217     58000   0.01071   0.954199     58100   0.010727   0.956972     58200   0.010835   0.962017     58300   0.010802   0.963275     58400   0.010702   0.963797     58500   0.010894   0.970477     58600   0.010932   1.223919     58800   0.010997   0.979651     58900   0.010957   0.983282     59000   0.010957   0.983282     59000   0.010983   0.993707     59300   0.010983   0.993707     59300   0.010984   1.002683     59500   0.010886   1.002683     59500   0.010886   1.002937     59700   0.011078   1.002937     59700   0.011138   1.002937     59700   0.011138   1.002937     59700   0.011138   1.01239     60900   0.011268   1.019122     60100   0.011268   1.0	57700		0.942386
58000   0.01071   0.954199     58100   0.010727   0.956972     58200   0.010835   0.962017     58300   0.010802   0.963275     58400   0.010702   0.963797     58500   0.010894   0.970477     58600   0.010932   1.223919     58800   0.010997   0.979651     58900   0.010957   0.983282     59000   0.01035   0.983538     59100   0.010885   0.989138     59200   0.010983   0.993707     59300   0.010994   0.996302     59400   0.010958   1.000463     59500   0.010886   1.002683     59500   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011078   1.01239     60900   0.011268   1.019122     60100   0.011268   1.0	57800	0.010614	0.944009
58100   0.010727   0.956972     58200   0.010835   0.962017     58300   0.010802   0.963275     58400   0.010702   0.963797     58500   0.010894   0.970477     58600   0.01094   0.973284     58700   0.010997   0.979651     58900   0.010957   0.983282     59000   0.010957   0.983538     59100   0.010885   0.989138     59200   0.010983   0.993707     59300   0.010994   0.996302     59400   0.010958   1.000463     59500   0.010886   1.002683     59500   0.010886   1.002937     59700   0.011138   1.002937     59700   0.011138   1.002937     59700   0.011138   1.002937     59800   0.011048   1.01239     59900   0.011138   1.002937     60100   0.011268   1.019122     60100   0.011268   1.	57900	0.01079	0.950217
58200   0.010835   0.962017     58300   0.010802   0.963275     58400   0.010702   0.963797     58500   0.010894   0.970477     58600   0.01084   0.973284     58700   0.010932   1.223919     58800   0.010997   0.979651     58900   0.010957   0.983282     59000   0.01085   0.983538     59100   0.010885   0.989138     59200   0.010983   0.993707     59300   0.010994   0.996302     59400   0.010958   1.000463     59500   0.010886   1.002937     59700   0.011078   1.002937     59700   0.011048   1.01239     59900   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011138   1.028129     60100   0.011268   1.019122     60100   0.011268   1.035172     60500   0.011259   1.03	58000	0.01071	0.954199
58300   0.010802   0.963275     58400   0.010702   0.963797     58500   0.010894   0.970477     58600   0.01094   0.973284     58700   0.010932   1.223919     58800   0.010997   0.979651     58900   0.010957   0.983282     59000   0.01085   0.983138     59100   0.010885   0.989138     59200   0.010994   0.996302     59400   0.010958   1.000463     59500   0.010886   1.002683     59600   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011138   1.028129     60100   0.011268   1.019122     60100   0.011268   1.028129     60300   0.011252   1.031013     60400   0.011289   1.03	58100	0.010727	0.956972
58400   0.010702   0.963797     58500   0.010894   0.970477     58600   0.01084   0.973284     58700   0.010997   0.979651     58800   0.010997   0.983282     59000   0.011035   0.983538     59100   0.010885   0.989138     59200   0.010994   0.996302     59400   0.010958   1.000463     59500   0.010886   1.002683     59600   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011138   1.002937     59900   0.011268   1.019122     60100   0.011268   1.019122     60200   0.011278   1.028129     60300   0.011289   1.037563     60600   0.011289   1.037563     60600   0.011323   1.0	58200	0.010835	0.962017
58500   0.010894   0.970477     58600   0.01084   0.973284     58700   0.010932   1.223919     58800   0.010997   0.979651     58900   0.010957   0.983282     59000   0.011035   0.983538     59100   0.010885   0.989138     59200   0.010994   0.996302     59400   0.010958   1.000463     59500   0.010886   1.002683     59600   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011138   1.009847     59800   0.011268   1.019122     60100   0.01128   1.0239     59900   0.01128   1.028129     60200   0.011268   1.019122     60100   0.01128   1.028129     60300   0.011252   1.031013     60400   0.011289   1.037563     60600   0.011323   1.04213	58300	0.010802	0.963275
58600   0.01084   0.973284     58700   0.010932   1.223919     58800   0.010997   0.979651     58900   0.010957   0.983282     59000   0.011035   0.983538     59100   0.010885   0.989138     59200   0.010983   0.993707     59300   0.010994   0.996302     59400   0.010958   1.000463     59500   0.010886   1.002683     59600   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011138   1.009847     59800   0.011268   1.019122     60100   0.011268   1.019122     60100   0.011268   1.028129     60300   0.011278   1.028129     60300   0.011252   1.031013     60400   0.011289   1.037563     60600   0.011323   1.042134     60700   0.011366   1.	58400	0.010702	0.963797
58700   0.010932   1.223919     58800   0.010997   0.979651     58900   0.010957   0.983282     59000   0.011035   0.983538     59100   0.010885   0.989138     59200   0.010983   0.993707     59300   0.010994   0.996302     59400   0.010958   1.000463     59500   0.010886   1.002683     59600   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011133   1.015008     60000   0.011268   1.019122     60100   0.01138   1.022739     60200   0.011578   1.028129     60300   0.011252   1.031013     60400   0.011289   1.037563     60600   0.011323   1.042134     60700   0.011248   1.042132     60800   0.011366   1.052191     61000   0.011363   1.	58500	0.010894	0.970477
58800   0.010997   0.979651     58900   0.010957   0.983282     59000   0.011035   0.983538     59100   0.010885   0.989138     59200   0.010983   0.993707     59300   0.010994   0.996302     59400   0.010958   1.000463     59500   0.010886   1.002683     59600   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011133   1.015008     60000   0.011268   1.019122     60100   0.011188   1.022739     60200   0.011578   1.028129     60300   0.011252   1.031013     60400   0.011289   1.035172     60500   0.011323   1.042134     60700   0.011248   1.042134     60700   0.011366   1.052191     61000   0.011363   1.058287     61200   0.011488   1	58600	0.01084	0.973284
58800   0.010997   0.979651     58900   0.010957   0.983282     59000   0.011035   0.983538     59100   0.010885   0.989138     59200   0.010983   0.993707     59300   0.010994   0.996302     59400   0.010958   1.000463     59500   0.010886   1.002683     59600   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011133   1.015008     60000   0.011268   1.019122     60100   0.011188   1.022739     60200   0.011578   1.028129     60300   0.011252   1.031013     60400   0.011289   1.035172     60500   0.011323   1.042134     60700   0.011248   1.042134     60700   0.011366   1.052191     61000   0.011363   1.058287     61200   0.011488   1	58700	0.010932	1.223919
58900   0.010957   0.983282     59000   0.011035   0.983538     59100   0.010885   0.989138     59200   0.010983   0.993707     59300   0.010994   0.996302     59400   0.010958   1.000463     59500   0.010886   1.002937     59700   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011133   1.015008     60000   0.011268   1.019122     60100   0.011268   1.019122     60200   0.011578   1.028129     60300   0.011252   1.031013     60400   0.011289   1.035172     60500   0.011323   1.042134     60700   0.011248   1.042134     60700   0.011248   1.042132     60800   0.011209   1.048202     60900   0.011366   1.052191     61100   0.011363   1			
59000   0.011035   0.983538     59100   0.010885   0.989138     59200   0.010983   0.993707     59300   0.010994   0.996302     59400   0.010958   1.000463     59500   0.010886   1.002937     59700   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011133   1.015008     60000   0.011268   1.019122     60100   0.011188   1.022739     60200   0.011578   1.028129     60300   0.011252   1.031013     60400   0.011289   1.037563     60500   0.011323   1.042134     60700   0.011323   1.042134     60700   0.011248   1.042134     60700   0.011248   1.052191     61000   0.011366   1.052191     61000   0.011363   1.058287     61200   0.011488   1			
59100   0.010885   0.989138     59200   0.010983   0.993707     59300   0.010994   0.996302     59400   0.010958   1.000463     59500   0.010886   1.002937     59700   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011133   1.015008     60000   0.011268   1.019122     60100   0.011188   1.022739     60200   0.011578   1.028129     60300   0.011252   1.031013     60400   0.011289   1.037563     60500   0.011129   1.037563     60600   0.011233   1.042134     60700   0.011248   1.042132     60800   0.011209   1.048202     60900   0.011366   1.052191     61000   0.011363   1.058287     61200   0.011488   1.061739     61300   0.011498   1			
59200   0.010983   0.993707     59300   0.010994   0.996302     59400   0.010958   1.000463     59500   0.010886   1.002683     59600   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011133   1.015008     60000   0.011268   1.019122     60100   0.011188   1.022739     60200   0.011578   1.028129     60300   0.011252   1.031013     60400   0.011289   1.035172     60500   0.011289   1.037563     60600   0.011323   1.042134     60700   0.011248   1.042134     60700   0.011248   1.052191     61000   0.011366   1.052191     61000   0.011363   1.058287     61200   0.011488   1.061739     61300   0.01149   1.070345     61600   0.011478   1.			
59300   0.010994   0.996302     59400   0.010958   1.000463     59500   0.010886   1.002683     59600   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011133   1.015008     60000   0.011268   1.019122     60100   0.011188   1.022739     60200   0.011578   1.028129     60300   0.011252   1.031013     60400   0.011289   1.035172     60500   0.011159   1.037563     60600   0.011323   1.042134     60700   0.011248   1.042134     60700   0.011248   1.042132     60800   0.011209   1.048202     60900   0.011366   1.052191     61000   0.011363   1.058287     61200   0.011488   1.061739     61300   0.01149   1.070345     61600   0.011478   1.			
59400   0.010958   1.000463     59500   0.010886   1.002683     59600   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011133   1.015008     60000   0.011268   1.019122     60100   0.011288   1.022739     60200   0.011578   1.028129     60300   0.011252   1.031013     60400   0.011289   1.035172     60500   0.01129   1.037563     60600   0.011323   1.042134     60700   0.011248   1.042134     60700   0.011248   1.042132     60800   0.011209   1.048202     60900   0.011366   1.052191     61000   0.011363   1.058287     61200   0.011488   1.061739     61300   0.01149   1.070345     61600   0.011478   1.074981     61700   0.011505   1.6			
59500   0.010886   1.002683     59600   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011133   1.015008     60000   0.011268   1.019122     60100   0.011188   1.022739     60200   0.011578   1.028129     60300   0.011252   1.031013     60400   0.011289   1.037563     60500   0.011159   1.037563     60600   0.011323   1.042134     60700   0.011248   1.042134     60700   0.011248   1.042134     60800   0.011209   1.048202     60900   0.011366   1.052191     61000   0.011363   1.058287     61200   0.011488   1.061739     61300   0.011498   1.068057     61400   0.011393   1.067136     61500   0.011478   1.070345     61600   0.011478   1			
59600   0.011078   1.002937     59700   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011133   1.015008     60000   0.011268   1.019122     60100   0.011188   1.022739     60200   0.011578   1.028129     60300   0.011252   1.031013     60400   0.011289   1.035172     60500   0.011159   1.037563     60600   0.011323   1.042134     60700   0.011248   1.042132     60800   0.011209   1.048202     60900   0.011366   1.052191     61000   0.011365   1.073181     61100   0.011363   1.058287     61200   0.011488   1.061739     61300   0.01149   1.070345     61500   0.011478   1.074981     61700   0.011478   1.074981     61800   0.01149   1.079643     61900   0.011525   1.0			
59700   0.011138   1.009847     59800   0.011048   1.01239     59900   0.011133   1.015008     60000   0.011268   1.019122     60100   0.011188   1.022739     60200   0.011578   1.028129     60300   0.011252   1.031013     60400   0.011289   1.035172     60500   0.011159   1.037563     60600   0.011323   1.042134     60700   0.011248   1.042134     60700   0.011248   1.042132     60800   0.011209   1.048202     60900   0.011366   1.052191     61000   0.011363   1.058287     61200   0.011488   1.061739     61300   0.011498   1.068057     61400   0.011393   1.067136     61500   0.011478   1.074981     61700   0.011505   1.644239     61800   0.01149   1.079643     61900   0.011525   1.			
59800   0.011048   1.01239     59900   0.011133   1.015008     60000   0.011268   1.019122     60100   0.011188   1.022739     60200   0.011578   1.028129     60300   0.011252   1.031013     60400   0.011289   1.035172     60500   0.011159   1.037563     60600   0.011323   1.042134     60700   0.011248   1.042132     60800   0.011209   1.048202     60900   0.011366   1.052191     61000   0.011365   1.073181     61100   0.011363   1.058287     61200   0.011488   1.061739     61300   0.011498   1.068057     61400   0.011393   1.067136     61500   0.011478   1.074981     61700   0.011478   1.074981     61800   0.01149   1.079643     61900   0.011505   1.644239     61900   0.011525   1.			
59900 0.011133 1.015008   60000 0.011268 1.019122   60100 0.011188 1.022739   60200 0.011578 1.028129   60300 0.011252 1.031013   60400 0.011289 1.035172   60500 0.011159 1.037563   60600 0.011323 1.042134   60700 0.011248 1.042132   60800 0.011209 1.048202   60900 0.011366 1.052191   61000 0.011355 1.073181   61100 0.011363 1.058287   61200 0.011488 1.061739   61300 0.011408 1.068057   61400 0.011393 1.067136   61500 0.011449 1.070345   61600 0.011478 1.074981   61700 0.011505 1.644239   61800 0.01149 1.079643   61900 0.011525 1.089613   62000 0.011549 1.092861			
600000.0112681.019122601000.0111881.022739602000.0115781.028129603000.0112521.031013604000.0112891.035172605000.0111591.037563606000.0113231.042134607000.0112481.042132608000.0112091.048202609000.0113661.052191610000.0113631.058287612000.0114881.061739613000.0114981.068057614000.0113931.067136615000.0114491.070345616000.0114781.074981617000.0115051.644239618000.011491.079643619000.01141.092951620000.0115251.089613621000.0115491.092861			
601000.0111881.022739602000.0115781.028129603000.0112521.031013604000.0112891.035172605000.0111591.037563606000.0113231.042134607000.0112481.042132608000.0112091.048202609000.0113661.052191610000.0113551.073181611000.0113631.058287612000.0114881.061739613000.0114081.068057614000.0113931.067136615000.0114491.070345616000.0114781.074981617000.0115051.644239618000.011491.079643619000.01141.092951620000.0115251.089613621000.0115491.092861		0.011133	1.015008
602000.0115781.028129603000.0112521.031013604000.0112891.035172605000.0111591.037563606000.0113231.042134607000.0112481.042132608000.0112091.048202609000.0113661.052191610000.0113551.073181611000.0113631.058287612000.0114881.061739613000.0114081.068057614000.0113931.067136615000.0114491.070345616000.0114781.074981617000.0115051.644239618000.011491.079643619000.01141.092951620000.0115251.089613621000.0115491.092861	60000	0.011268	1.019122
60300 0.011252 1.031013   60400 0.011289 1.035172   60500 0.011159 1.037563   60600 0.011323 1.042134   60700 0.011248 1.042132   60800 0.011209 1.048202   60900 0.011366 1.052191   61000 0.011355 1.073181   61100 0.011363 1.058287   61200 0.011488 1.061739   61300 0.011408 1.068057   61400 0.011393 1.067136   61500 0.011449 1.070345   61600 0.011478 1.074981   61700 0.011505 1.644239   61800 0.01149 1.079643   61900 0.011525 1.089613   62000 0.011549 1.092861	60100	0.011188	1.022739
60400   0.011289   1.035172     60500   0.011159   1.037563     60600   0.011323   1.042134     60700   0.011248   1.042132     60800   0.011209   1.048202     60900   0.011366   1.052191     61000   0.011355   1.073181     61100   0.011363   1.058287     61200   0.011488   1.061739     61300   0.011408   1.068057     61400   0.011393   1.067136     61500   0.011449   1.070345     61600   0.011478   1.074981     61700   0.011505   1.644239     61800   0.01149   1.079643     61900   0.011525   1.089613     62000   0.011549   1.092861	60200	0.011578	1.028129
605000.0111591.037563606000.0113231.042134607000.0112481.042132608000.0112091.048202609000.0113661.052191610000.0113551.073181611000.0113631.058287612000.0114881.061739613000.0114081.068057614000.0113931.067136615000.0114491.070345616000.0114781.074981617000.0115051.644239618000.011491.079643619000.01141.092951620000.0115251.089613621000.0115491.092861	60300	0.011252	1.031013
606000.0113231.042134607000.0112481.042132608000.0112091.048202609000.0113661.052191610000.0113551.073181611000.0113631.058287612000.0114881.061739613000.0114081.068057614000.0113931.067136615000.0114491.070345616000.0114781.074981617000.0115051.644239618000.011491.079643619000.01141.092951620000.0115251.089613621000.0115491.092861	60400	0.011289	1.035172
607000.0112481.042132608000.0112091.048202609000.0113661.052191610000.0113551.073181611000.0113631.058287612000.0114881.061739613000.0114081.068057614000.0113931.067136615000.0114491.070345616000.0114781.074981617000.0115051.644239618000.011491.079643619000.01141.092951620000.0115251.089613621000.0115491.092861	60500	0.011159	1.037563
608000.0112091.048202609000.0113661.052191610000.0113551.073181611000.0113631.058287612000.0114881.061739613000.0114081.068057614000.0113931.067136615000.0114491.070345616000.0114781.074981617000.0115051.644239618000.011491.079643619000.01141.092951620000.0115251.089613621000.0115491.092861	60600	0.011323	1.042134
609000.0113661.052191610000.0113551.073181611000.0113631.058287612000.0114881.061739613000.0114081.068057614000.0113931.067136615000.0114491.070345616000.0114781.074981617000.0115051.644239618000.011491.079643619000.01141.092951620000.0115251.089613621000.0115491.092861	60700	0.011248	1.042132
610000.0113551.073181611000.0113631.058287612000.0114881.061739613000.0114081.068057614000.0113931.067136615000.0114491.070345616000.0114781.074981617000.0115051.644239618000.011491.079643619000.01141.092951620000.0115251.089613621000.0115491.092861	60800	0.011209	1.048202
610000.0113551.073181611000.0113631.058287612000.0114881.061739613000.0114081.068057614000.0113931.067136615000.0114491.070345616000.0114781.074981617000.0115051.644239618000.011491.079643619000.01141.092951620000.0115251.089613621000.0115491.092861	60900	0.011366	1.052191
611000.0113631.058287612000.0114881.061739613000.0114081.068057614000.0113931.067136615000.0114491.070345616000.0114781.074981617000.0115051.644239618000.011491.079643619000.01141.092951620000.0115251.089613621000.0115491.092861			
612000.0114881.061739613000.0114081.068057614000.0113931.067136615000.0114491.070345616000.0114781.074981617000.0115051.644239618000.011491.079643619000.01141.092951620000.0115251.089613621000.0115491.092861			
613000.0114081.068057614000.0113931.067136615000.0114491.070345616000.0114781.074981617000.0115051.644239618000.011491.079643619000.01141.092951620000.0115251.089613621000.0115491.092861			
614000.0113931.067136615000.0114491.070345616000.0114781.074981617000.0115051.644239618000.011491.079643619000.01141.092951620000.0115251.089613621000.0115491.092861			
615000.0114491.070345616000.0114781.074981617000.0115051.644239618000.011491.079643619000.01141.092951620000.0115251.089613621000.0115491.092861			
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62100 0.011549 1.092861			
62200 0.011534 1.096132			
	62200	0.011534	1.096132

62300	0.011572	1.096822
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62500	0.011547	1.105169
62600	0.011629	1.108907
62700	0.011687	1.113588
62800	0.01167	1.115763
62900	0.011684	1.117572
63000	0.011768	1.123727
63100	0.011691	1.12671
63200	0.011718	1.130301
63300	0.011808	1.135321
63400	0.011603	1.136138
63500	0.011758	1.14145
63600	0.011730	1.145427
63700	0.011881	1.149441
63800		1.153439
	0.011757	
63900	0.011815	1.15851
64000	0.011944	1.160517
64100	0.011946	1.164806
64200	0.01198	1.166482
64300	0.011968	1.172117
64400	0.011892	1.169442
64500	0.012018	1.179193
64600	0.012009	1.181377
64700	0.012003	1.18515
64800	0.012052	1.187691
64900	0.012038	1.189354
65000	0.012136	1.194861
65100	0.012066	1.198347
65200	0.012013	1.203146
65300	0.01203	1.205146
65400	0.012062	1.208247
65500	0.012175	1.213515
65600	0.012059	1.217706
65700	0.012046	1.221432
65800	0.012194	1.222856
65900	0.012131	1.233742
66000	0.012227	1.231807
66100	0.0124	1.236632
66200	0.012382	1.239395
66300	0.012357	1.263302
66400	0.012411	1.255868
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66600	0.01256	1.255527
66700	0.01230	1.27192
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UUEUU	0.012558	1.200040

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67500	0.01273	1.28962
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67700	0.01253	1.298084
67800	0.01262	1.311774
67900	0.012661	1.30547
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68200	0.012673	1.313635
68300	0.01274	1.318944
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68500	0.012798	1.327021
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68700	0.012877	1.331407
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69600	0.013078	1.366697
69700	0.013049	1.374432
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70100	0.013123	1.39289
70200	0.013239	1.394214
70300	0.013223	1.396822
70400	0.013168	1.412645
70500	0.013323	1.405587
70600	0.013346	1.409596
70700		1.947554
	0.013421	
70800	0.013273	1.416758
70900	0.013316	1.421601
71000	0.013417	1.42675
71100	0.013352	1.430693
71200	0.013466	1.500798
71300	0.013443	1.43773
71400	0.0135	1.444196
71500	0.013448	1.466095
71600	0.013453	1.451308

71700	0.013467	1.451598
71800	0.013447	1.461133
71900	0.013738	1.465799
72000	0.013639	1.468653
72100	0.013715	1.469734
72200	0.01379	1.474847
72300	0.013589	1.479169
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72500	0.013614	1.485799
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72800	0.013629	1.500225
72900	0.013811	1.501763
73000	0.013726	1.508035
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	0.013714	
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73600	0.013862	1.532196
73700	0.01374	1.557111
73800	0.013952	1.541764
73900	0.013889	1.546984
74000	0.013787	1.549508
74100	0.01377	1.570966
74200	0.013929	1.593592
74300	0.013941	1.589996
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74500	0.014002	1.573876
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74700	0.014281	1.584822
74800	0.014067	1.586515
74900	0.014072	1.588228
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75200	0.014361	1.601368
75300	0.014196	1.604469
75400	0.014235	1.604455
75500	0.014155	1.613321
75600	0.014207	1.618503
75700	0.014283	1.621503
75800	0.014203	1.626072
75900	0.01431	
76000 76000	0.014251	1.63277 1.636834
76100	0.014406	1.63766
76200	0.014348	1.646403
76300	0.014414	1.650826

76400	0.014438	1.654673
76500	0.014285	1.658669
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76700	0.014383	1.666874
76800	0.01454	1.6697
76900	0.014578	1.675508
77000	0.014592	1.67943
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77500	0.014641	1.701153
77600	0.014701	1.708282
77700	0.014738	1.713683
77800	0.014894	1.716554
77900	0.014568	1.732693
78000	0.014721	1.744036
78100	0.014699	1.728102
78200	0.014878	1.728307
78300	0.014812	1.740226
78400	0.014911	1.747595
78500	0.014728	1.752808
78600	0.014819	1.750034
78700	0.014803	1.76231
78800	0.014926	2.359392
78900	0.015056	1.764426
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79100	0.015079	1.77472
79200	0.014912	1.777263
79300	0.015008	1.787971
79400	0.015008	1.788314
79500	0.014978	1.789161
79600	0.015159	1.795986
79700	0.014999	1.801529
79800	0.015185	1.802517
79900	0.015054	1.811185
80000	0.015187	1.85495
80100	0.015125	1.815734
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80400	0.015149	1.830511
80500	0.015243	1.836386
80600	0.015386	1.839835
80700	0.015401	1.84038
80800	0.015147	1.952312
80900	0.015353	1.852742
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31000	0.013437	1.071000

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81200	0.01533	1.884818
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81400	0.015388	1.87779
81500	0.015493	1.88349
81600	0.015294	1.886129
81700	0.015337	1.891747
81800	0.015421	1.896623
81900	0.015434	1.89955
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82100	0.015522	1.910585
82200	0.015303	1.912992
82300	0.015474	1.912992
82400	0.015579	1.924247
000		
82500	0.015668	1.925494
82600	0.015648	1.933647
82700	0.015637	1.939197
82800	0.015634	1.940323
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83100	0.015784	1.956091
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83300	0.01576	1.966654
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83500	0.016068	1.976641
83600	0.015828	1.977839
83700	0.015866	1.985198
83800	0.015859	1.993571
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84100	0.016071	2.000804
84200	0.016063	2.009085
84300	0.016102	2.01077
84400	0.016086	2.016988
84500	0.016033	2.023727
84600	0.016288	2.023727
84700	0.016115	2.034992
84800	0.016076	2.064114
84900	0.01619	2.039428
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85100	0.016388	2.048276
85200	0.016134	2.068884
85300	0.016221	2.080789
85400	0.016135	2.061836
85500	0.016374	2.09525
85600	0.016404	2.073684
85700	0.016288	2.079335

85800	0.016298	2.08479
85900	0.016317	2.087712
86000	0.016314	2.093707
86100	0.016362	2.101686
86200	0.016452	2.103172
86300	0.016523	2.120596
86400	0.016615	2.115777
86500	0.016569	2.116146
86600	0.016622	2.125427
86700		_
	0.016646	2.129446
86800	0.016598	2.133516
86900	0.016639	2.142138
87000	0.016736	2.143285
87100	0.016676	2.149365
87200	0.016682	2.155654
87300	0.016933	2.157388
87400	0.01674	2.165074
87500	0.016778	2.168888
87600	0.016733	2.172616
87700	0.016757	2.178752
87800	0.01677	2.182356
87900	0.016823	2.187467
88000	0.016932	2.195164
88100	0.016817	2.195966
88200	0.016871	2.203499
88300	0.017011	2.920162
88400	0.017263	2.211985
88500	0.017038	2.218484
88600	0.017147	2.222493
88700	0.016956	2.22903
88800	0.017032	2.236288
88900	0.017029	2.251592
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89100	0.017043	2.250702
89200	0.017295	2.263416
89300	0.017273	2.261976
89400	0.017243	2.264863
89500	0.017063	2.269053
89600	0.017344	2.276104
89700	0.017065	2.294631
89800	0.017229	2.287374
89900	0.017287	2.292557
90000	0.01728	2.29243
90100	0.017281	2.302229
90200	0.017147	2.33056
90300	0.017372	2.316476
90400	0.017251	2.318723

90500	0.017407	2.34106
90600	0.017586	2.335902
90700	0.017438	2.333453
90800	0.017339	2.336392
90900	0.01751	2.344368
91000	0.01731	2.348226
91100	0.017401	2.353608
91200	0.01751	2.360212
91300	0.017513	2.36015
91400	0.017616	2.366194
91500	0.017615	2.372163
91600	0.017709	2.396311
91700	0.017833	2.38797
91800	0.017639	2.396712
91900	0.017688	2.41607
92000	0.017545	2.434316
92100	0.017545	2.434310
92200	0.017546	2.407958
92300	0.01755	2.435605
92400	0.017791	2.439887
92500	0.017851	2.896013
92600	0.017564	2.453054
92700	0.017861	2.437893
92800	0.017905	2.455032
92900	0.017821	2.446921
93000	0.017742	2.449586
93100	0.017935	2.456194
93200	0.017877	2.492245
93300	0.017976	2.46767
93400	0.017796	2.472546
93500	0.017855	2.475606
93600	0.017906	2.483037
93700	0.018042	3.14475
93800	0.018047	2.517257
93900	0.018056	2.501578
94000	0.018007	2.524849
94100	0.018099	2.547981
94200	0.017975	2.548778
94300	0.017874	4.227093
94400	0.017874	2.558706
94500	0.018075	2.564315
94600	0.018024	2.567492
94700	0.018216	2.574123
94800	0.018165	2.584993
94900	0.018104	2.585315
95000	0.018147	2.584154
95100	0.018141	2.591366

95200	0.018181	2.589786
95300	0.018299	2.606802
95400	0.01815	3.113616
	0.018361	
95500		2.617523
95600	0.018272	2.620575
95700	0.018326	2.630654
95800	0.018255	3.969462
95900	0.018272	2.642371
96000	0.01833	2.632463
96100	0.01834	2.621673
96200	0.018317	2.623625
96300	0.018447	2.628251
96400	0.018504	2.713517
96500	0.018453	2.893179
96600	0.018502	2.645881
96700	0.018582	2.649683
96800	0.018822	2.658102
96900	0.018945	2.660242
97000	0.01864	2.744252
97100	0.01858	2.688291
97200	0.01874	2.719061
97300	0.018798	2.718483
97400	0.018806	2.721255
97500	0.018595	2.820491
97600	0.018542	2.702278
97700	0.018473	2.734172
97800	0.018807	2.871415
97900	0.018822	2.718044
98000	0.018829	2.726141
98100	0.018781	3.055136
98200	0.019786	2.794042
98300	0.018676	2.752518
98400	0.018721	3.123811
98500	0.018731	2.753271
98600	0.018825	3.228553
98700	0.019012	2.765385
98800	0.018909	3.446221
98900	0.018986	2.775835
99000	0.018928	2.802424
99100	0.01885	2.787419
99200	0.019065	3.275673
99300	0.018979	2.798342
99400	0.019122	2.799597
99500	0.019191	3.267923
99600	0.019086	2.814077
99700	0.019119	2.96468
99800	0.019406	3.348312

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