

**Q2d Actual Data:**

N	Time	N*log N	Time/(NlogN)
10000	0	92103.40372	0
20000	0.016	198069.7511	8.07796E-08
30000	0.015	309268.5798	4.85015E-08
40000	0	423865.3893	0
50000	0.032	540988.9142	5.91509E-08
60000	0.015	660125.9905	2.27229E-08
70000	0.016	780937.5365	2.04882E-08
80000	0.016	903182.5531	1.77151E-08
90000	0.031	1026680.845	3.01944E-08
100000	0.031	1151292.546	2.69263E-08
110000	0.047	1276905.921	3.68077E-08
120000	0.031	1403429.643	2.20887E-08
130000	0.047	1530787.665	3.07031E-08
140000	0.047	1658915.678	2.83318E-08
150000	0.047	1787758.586	2.62899E-08
160000	0.062999	1917268.655	3.28587E-08
170000	0.031	2047404.132	1.51411E-08
180000	0.078	2178128.183	3.58106E-08
190000	0.047	2309408.077	2.03515E-08
200000	0.062	2441214.529	2.53972E-08
210000	0.063	2573521.19	2.44801E-08
220000	0.078	2706304.222	2.88216E-08
230000	0.093999	2839541.955	3.31036E-08
240000	0.094	2973214.609	3.16156E-08
250000	0.078	3107304.049	2.51021E-08
260000	0.094	3241793.597	2.89963E-08
270000	0.078	3376667.854	2.30997E-08
280000	0.077999	3511912.567	2.22098E-08
290000	0.093	3647514.499	2.54968E-08
300000	0.141	3783461.326	3.72675E-08
310000	0.093	3919741.549	2.37261E-08
320000	0.124999	4056344.408	3.08157E-08
330000	0.094	4193259.818	2.24169E-08
340000	0.125	4330478.305	2.88652E-08
350000	0.109	4467990.952	2.43958E-08
360000	0.093999	4605789.352	2.04089E-08
370000	0.109	4743865.565	2.2977E-08
380000	0.094	4882212.082	1.92536E-08
390000	0.125	5020821.787	2.48963E-08

400000	0.124999	5159687.93	2.42261E-08
410000	0.156	5298804.1	2.94406E-08
420000	0.109	5438164.196	2.00435E-08
430000	0.202999	5577762.41	3.63943E-08
440000	0.141	5717593.203	2.46607E-08
450000	0.14	5857651.288	2.39004E-08
460000	0.124999	5997931.613	2.08404E-08
470000	0.125	6138429.348	2.03635E-08
480000	0.188	6279139.864	2.99404E-08
490000	0.140999	6420058.728	2.19623E-08
500000	0.125	6561181.689	1.90514E-08
510000	0.188	6702504.662	2.80492E-08
520000	0.172	6844023.727	2.51314E-08
530000	0.235	6985735.111	3.364E-08
540000	0.171999	7127635.186	2.41313E-08
550000	0.172	7269720.456	2.36598E-08
560000	0.125	7411987.555	1.68646E-08
570000	0.203	7554433.235	2.68716E-08
580000	0.156	7697054.362	2.02675E-08
590000	0.155999	7839847.911	1.98982E-08
600000	0.203	7982810.961	2.54296E-08
610000	0.186999	8125940.684	2.30126E-08
620000	0.188	8269234.349	2.27349E-08
630000	0.296999	8412689.312	3.53037E-08
640000	0.235	8556303.011	2.74651E-08
650000	0.156999	8700072.967	1.80457E-08
660000	0.218	8843996.775	2.46495E-08
670000	0.233999	8988072.104	2.60344E-08
680000	0.219	9132296.692	2.39808E-08
690000	0.233999	9276668.345	2.52245E-08
700000	0.234	9421184.93	2.48376E-08
710000	0.202999	9565844.377	2.12212E-08
720000	0.280999	9710644.674	2.89372E-08
730000	0.203	9855583.864	2.05975E-08
740000	0.188	10000660.04	1.87988E-08
750000	0.235	10145871.36	2.31621E-08
760000	0.203	10291216.02	1.97256E-08
770000	0.203	10436692.26	1.94506E-08
780000	0.188	10582298.37	1.77655E-08
790000	0.264999	10728032.7	2.47015E-08
800000	0.249999	10873893.61	2.29908E-08

810000	0.328	11019879.52	2.97644E-08
820000	0.281999	11165988.89	2.52552E-08
830000	0.203	11312220.21	1.79452E-08
840000	0.359	11458572.02	3.13303E-08
850000	0.296999	11605042.88	2.55922E-08
860000	0.264999	11751631.39	2.255E-08
870000	0.234	11898336.19	1.96666E-08
880000	0.217999	12045155.92	1.80985E-08
890000	0.281	12192089.3	2.30477E-08
900000	0.265999	12339135.04	2.15573E-08
910000	0.296999	12486291.89	2.3786E-08
920000	0.297	12633558.63	2.35088E-08
930000	0.358999	12780934.07	2.80886E-08
940000	0.296999	12928417.04	2.29726E-08
950000	0.313	13076006.4	2.3937E-08
960000	0.406	13223701.02	3.07024E-08
970000	0.312	13371499.81	2.33332E-08
980000	0.264999	13519401.69	1.96014E-08
990000	0.25	13667405.62	1.82917E-08
1000000	0.296999	13815510.56	2.14975E-08
1010000	0.312999	13963715.5	2.24152E-08
1020000	0.327999	14112019.45	2.32425E-08
1030000	0.359	14260421.44	2.51746E-08
1040000	0.374999	14408920.52	2.60255E-08
1050000	0.342999	14557515.76	2.35616E-08
1060000	0.405999	14706206.23	2.76073E-08
1070000	0.342999	14854991.05	2.30898E-08
1080000	0.420999	15003869.33	2.80594E-08
1090000	0.421999	15152840.2	2.78495E-08
1100000	0.391	15301902.81	2.55524E-08
1110000	0.328	15451056.34	2.12283E-08
1120000	0.312999	15600299.95	2.00637E-08
1130000	0.25	15749632.86	1.58734E-08
1140000	0.313	15899054.26	1.96867E-08
1150000	0.312999	16048563.38	1.95032E-08
1160000	0.390999	16198159.45	2.41385E-08
1170000	0.312999	16347841.74	1.91462E-08
1180000	0.266	16497609.5	1.61235E-08
1190000	0.280999	16647462	1.68794E-08
1200000	0.266	16797398.54	1.58358E-08
1210000	0.438	16947418.41	2.58446E-08

1220000	0.375	17097520.93	2.1933E-08
1230000	0.264999	17247705.41	1.53643E-08
1240000	0.421999	17397971.2	2.42556E-08
1250000	0.343999	17548317.64	1.9603E-08
1260000	0.36	17698744.07	2.03404E-08
1270000	0.312	17849249.87	1.74797E-08
1280000	0.311999	17999834.41	1.73334E-08
1290000	0.327999	18150497.08	1.80711E-08
1300000	0.39	18301237.27	2.131E-08
1310000	0.311999	18452054.38	1.69086E-08
1320000	0.311999	18602947.83	1.67715E-08
1330000	0.312999	18753917.04	1.66898E-08
1340000	0.328	18904961.43	1.73499E-08
1350000	0.328999	19056080.45	1.72648E-08
1360000	0.327999	19207273.55	1.70768E-08
1370000	0.344	19358540.18	1.77699E-08
1380000	0.266	19509879.8	1.36341E-08
1390000	0.499999	19661291.88	2.54306E-08
1400000	0.358999	19812775.91	1.81196E-08
1410000	0.546999	19964331.37	2.73988E-08
1420000	0.437999	20115957.75	2.17737E-08
1430000	0.468999	20267654.55	2.31403E-08
1440000	0.390999	20419421.29	1.91484E-08
1450000	0.406999	20571257.47	1.97848E-08
1460000	0.344	20723162.61	1.65998E-08
1470000	0.438	20875136.25	2.09819E-08
1480000	0.422	21027177.92	2.00693E-08
1490000	0.530999	21179287.15	2.50716E-08
1500000	0.436999	21331463.5	2.04861E-08
1510000	0.405999	21483706.52	1.8898E-08
1520000	0.406999	21636015.76	1.88112E-08
1530000	0.437999	21788390.79	2.01024E-08
1540000	0.389999	21940831.18	1.7775E-08
1550000	0.530999	22093336.51	2.40344E-08
1560000	0.468999	22245906.35	2.10825E-08
1570000	0.421999	22398540.3	1.88405E-08
1580000	0.327999	22551237.94	1.45446E-08
1590000	0.375	22703998.87	1.65169E-08
1600000	0.344	22856822.7	1.50502E-08
1610000	0.374999	23009709.03	1.62974E-08
1620000	0.499999	23162657.47	2.15864E-08

1630000	0.577999	23315667.63	2.47902E-08
1640000	0.437999	23468739.15	1.86631E-08
1650000	0.421999	23621871.65	1.78648E-08
1660000	0.483999	23775064.75	2.03574E-08
1670000	0.359999	23928318.09	1.50449E-08
1680000	0.593999	24081631.31	2.46661E-08
1690000	0.624998	24235004.06	2.57891E-08
1700000	0.468999	24388435.98	1.92304E-08
1710000	0.468999	24541926.72	1.91101E-08
1720000	0.374999	24695475.94	1.51849E-08
1730000	0.577999	24849083.3	2.32604E-08
1740000	0.468999	25002748.47	1.87579E-08
1750000	0.358999	25156471.11	1.42706E-08
1760000	0.656999	25310250.89	2.59578E-08
1770000	0.499999	25464087.49	1.96355E-08
1780000	0.483999	25617980.58	1.88929E-08
1790000	0.499999	25771929.86	1.94009E-08
1800000	0.391	25925935	1.50814E-08
1810000	0.561999	26079995.7	2.1549E-08
1820000	0.421999	26234111.65	1.60859E-08
1830000	0.421999	26388282.54	1.59919E-08
1840000	0.405999	26542508.08	1.52962E-08
1850000	0.593999	26696787.96	2.22498E-08
1860000	0.499999	26851121.9	1.86212E-08
1870000	0.483999	27005509.61	1.79222E-08
1880000	0.514999	27159950.79	1.89617E-08
1890000	0.499999	27314445.16	1.83053E-08
1900000	0.514999	27468992.44	1.87484E-08
1910000	0.561999	27623592.36	2.03449E-08
1920000	0.577999	27778244.63	2.08076E-08
1930000	0.608999	27932948.98	2.18022E-08
1940000	0.436999	28087705.15	1.55584E-08
1950000	0.452999	28242512.86	1.60396E-08
1960000	0.453999	28397371.86	1.59874E-08
1970000	0.702998	28552281.88	2.46214E-08
1980000	0.499999	28707242.66	1.74172E-08
1990000	0.624999	28862253.94	2.16545E-08
2000000	0.561998	29017315.48	1.93677E-08
2010000	0.438	29172427.01	1.50142E-08
2020000	0.656999	29327588.3	2.24021E-08
2030000	0.749998	29482799.09	2.54385E-08

2040000	0.592999	29638059.15	2.0008E-08
2050000	0.468999	29793368.22	1.57417E-08
2060000	0.468999	29948726.07	1.56601E-08
2070000	0.749998	30104132.47	2.49135E-08
2080000	0.561999	30259587.18	1.85726E-08
2090000	0.499999	30415089.96	1.64392E-08
2100000	0.780999	30570640.6	2.55474E-08
2110000	0.655998	30726238.85	2.13498E-08
2120000	0.608999	30881884.49	1.97203E-08
2130000	0.608998	31037577.31	1.96213E-08
2140000	0.749999	31193317.07	2.40436E-08
2150000	0.515999	31349103.56	1.64598E-08
2160000	0.499999	31504936.56	1.58705E-08
2170000	0.499999	31660815.86	1.57924E-08
2180000	0.655999	31816741.25	2.0618E-08
2190000	0.608998	31972712.5	1.90474E-08
2200000	0.687999	32128729.42	2.14138E-08
2210000	0.624998	32284791.79	1.93589E-08
2220000	0.749999	32440899.41	2.31189E-08
2230000	0.624999	32597052.08	1.91735E-08
2240000	0.499999	32753249.59	1.52656E-08
2250000	0.608999	32909491.74	1.85053E-08
2260000	0.515999	33065778.34	1.56052E-08
2270000	0.515999	33222109.18	1.55318E-08
2280000	0.499999	33378484.08	1.49797E-08
2290000	0.515999	33534902.84	1.53869E-08
2300000	0.718998	33691365.27	2.13407E-08
2310000	0.531999	33847871.17	1.57174E-08
2320000	0.764999	34004420.37	2.2497E-08
2330000	0.686998	34161012.66	2.01106E-08
2340000	0.671999	34317647.88	1.95817E-08
2350000	0.780999	34474325.83	2.26545E-08
2360000	0.749998	34631046.34	2.16568E-08
2370000	0.655999	34787809.22	1.88572E-08
2380000	0.515999	34944614.29	1.47662E-08
2390000	0.781999	35101461.38	2.22782E-08
2400000	0.905998	35258350.31	2.5696E-08
2410000	0.686999	35415280.91	1.93984E-08
2420000	0.952998	35572253	2.67905E-08
2430000	0.687998	35729266.41	1.92559E-08
2440000	0.796998	35886320.98	2.2209E-08

2450000	0.546999	36043416.53	1.51761E-08
2460000	0.546999	36200552.89	1.51102E-08
2470000	0.921998	36357729.91	2.53591E-08
2480000	0.812998	36514947.41	2.22648E-08
2490000	0.578999	36672205.24	1.57885E-08
2500000	0.562999	36829503.22	1.52866E-08
2510000	0.936998	36986841.21	2.53333E-08
2520000	0.858998	37144219.04	2.3126E-08
2530000	0.671999	37301636.55	1.80153E-08
2540000	0.546999	37459093.58	1.46026E-08
2550000	0.889999	37616589.99	2.36597E-08
2560000	0.718998	37774125.61	1.90341E-08
2570000	0.686998	37931700.29	1.81114E-08
2580000	0.702999	38089313.89	1.84566E-08
2590000	0.592999	38246966.24	1.55045E-08
2600000	0.608999	38404657.21	1.58574E-08
2610000	0.827998	38562386.63	2.14716E-08
2620000	0.733998	38720154.37	1.89565E-08
2630000	0.796999	38877960.28	2.05E-08
2640000	0.718999	39035804.21	1.8419E-08
2650000	0.890998	39193686.02	2.27332E-08
2660000	0.749998	39351605.57	1.90589E-08
2670000	0.609999	39509562.71	1.54393E-08
2680000	0.734998	39667557.3	1.85289E-08
2690000	0.593999	39825589.21	1.4915E-08
2700000	0.702998	39983658.29	1.75821E-08
2710000	0.640999	40141764.41	1.59684E-08
2720000	0.624998	40299907.43	1.55087E-08
2730000	0.577999	40458087.22	1.42864E-08
2740000	0.639999	40616303.63	1.57572E-08
2750000	0.593999	40774556.54	1.45679E-08
2760000	0.656999	40932845.82	1.60507E-08
2770000	1.264997	41091171.32	3.07851E-08
2780000	0.717999	41249532.93	1.74062E-08
2790000	0.889998	41407930.51	2.14934E-08
2800000	0.687999	41566363.93	1.65518E-08
2810000	0.890998	41724833.07	2.13541E-08
2820000	0.780999	41883337.79	1.8647E-08
2830000	0.609998	42041877.97	1.45093E-08
2840000	0.780998	42200453.49	1.85069E-08
2850000	0.718999	42359064.22	1.69739E-08

2860000	1.124998	42517710.04	2.64595E-08
2870000	0.874999	42676390.83	2.05031E-08
2880000	1.045998	42835106.45	2.44192E-08
2890000	0.749999	42993856.8	1.74443E-08
2900000	0.921998	43152641.76	2.1366E-08
2910000	0.812998	43311461.19	1.8771E-08
2920000	0.624999	43470314.99	1.43776E-08
2930000	0.827998	43629203.03	1.89781E-08
2940000	1.045997	43788125.21	2.38877E-08
2950000	0.842998	43947081.4	1.91821E-08
2960000	0.640999	44106071.49	1.45331E-08
2970000	1.093998	44265095.36	2.47147E-08
2980000	0.842998	44424152.9	1.89761E-08
2990000	0.749999	44583244	1.68224E-08
3000000	0.687999	44742368.54	1.53769E-08
3010000	1.078998	44901526.42	2.40303E-08
3020000	1.093998	45060717.52	2.42783E-08
3030000	0.859999	45219941.73	1.90181E-08
3040000	0.983998	45379198.94	2.16839E-08
3050000	1.093998	45538489.05	2.40236E-08
3060000	0.796999	45697811.95	1.74406E-08
3070000	1.186997	45857167.53	2.58847E-08
3080000	1.062998	46016555.68	2.31003E-08
3090000	0.671998	46175976.3	1.4553E-08
3100000	0.906998	46335429.28	1.95746E-08
3110000	1.109998	46494914.51	2.38735E-08
3120000	1.046998	46654431.91	2.24416E-08
3130000	0.827998	46813981.35	1.7687E-08
3140000	0.968998	46973562.74	2.06286E-08
3150000	0.952998	47133175.98	2.02193E-08
3160000	0.953998	47292820.97	2.01722E-08
3170000	0.937998	47452497.6	1.97671E-08
3180000	0.983998	47612205.78	2.06669E-08
3190000	1.265998	47771945.4	2.65009E-08
3200000	1.296997	47931716.38	2.70593E-08
3210000	1.280997	48091518.6	2.66367E-08
3220000	1.718996	48251351.97	3.56259E-08
3230000	1.312998	48411216.41	2.71218E-08
3240000	1.327998	48571111.8	2.73413E-08
3250000	1.109998	48731038.05	2.2778E-08
3260000	1.109998	48890995.08	2.27035E-08



3270000	1.062998	49050982.78	2.16713E-08
3280000	1.390997	49211001.06	2.8266E-08
3290000	1.062998	49371049.82	2.15308E-08
3300000	1.062998	49531128.99	2.14612E-08
3310000	0.874998	49691238.45	1.76087E-08
3320000	0.890998	49851378.13	1.78731E-08
3330000	1.406997	50011547.93	2.81334E-08
3340000	1.281998	50171747.76	2.55522E-08
3350000	1.186998	50331977.53	2.35834E-08
3360000	0.905999	50492237.15	1.79433E-08
3370000	1.546997	50652526.53	3.05414E-08
3380000	1.265998	50812845.58	2.49149E-08
3390000	0.921999	50973194.23	1.80879E-08
3400000	0.874999	51133572.36	1.7112E-08
3410000	1.421997	51293979.92	2.77225E-08
3420000	1.077998	51454416.79	2.09505E-08
3430000	1.265998	51614882.91	2.45278E-08
3440000	1.109998	51775378.18	2.14387E-08
3450000	0.874999	51935902.52	1.68477E-08
3460000	2.015996	52096455.85	3.86974E-08
3470000	0.953998	52257038.08	1.82559E-08
3480000	0.921998	52417649.12	1.75895E-08
3490000	1.202998	52578288.91	2.28801E-08
3500000	1.202997	52738957.34	2.28104E-08
3510000	1.124998	52899654.35	2.12666E-08
3520000	1.109998	53060379.85	2.09195E-08
3530000	1.702997	53221133.75	3.19985E-08
3540000	1.577997	53381915.99	2.95605E-08
3550000	1.592996	53542726.47	2.97519E-08
3560000	1.624996	53703565.13	3.02586E-08
3570000	1.874996	53864431.87	3.48095E-08
3580000	1.608997	54025326.62	2.97823E-08
3590000	1.780996	54186249.31	3.2868E-08
3600000	1.171998	54347199.85	2.1565E-08
3610000	1.327997	54508178.17	2.43633E-08
3620000	1.468997	54669184.19	2.68707E-08
3630000	1.390998	54830217.84	2.53692E-08
3640000	1.187998	54991279.03	2.16034E-08
3650000	1.140997	55152367.7	2.06881E-08
3660000	1.311997	55313483.76	2.37193E-08
3670000	1.265998	55474627.15	2.28212E-08

3680000	1.187998	55635797.78	2.13531E-08
3690000	0.921998	55796995.59	1.65242E-08
3700000	1.593997	55958220.5	2.84855E-08
3710000	1.155997	56119472.43	2.05989E-08
3720000	1.155998	56280751.32	2.05398E-08
3730000	1.030998	56442057.09	1.82665E-08
3740000	1.015998	56603389.67	1.79494E-08
3750000	1.030998	56764748.99	1.81626E-08
3760000	0.999998	56926134.98	1.75666E-08
3770000	0.983998	57087547.56	1.72366E-08
3780000	0.999998	57248986.67	1.74675E-08
3790000	1.202997	57410452.23	2.09543E-08
3800000	1.359997	57571944.17	2.36226E-08
3810000	0.905998	57733462.44	1.56928E-08
3820000	1.390997	57895006.95	2.40262E-08
3830000	1.140997	58056577.63	1.96532E-08
3840000	1.483997	58218174.43	2.54903E-08
3850000	0.937998	58379797.27	1.60672E-08
3860000	1.124997	58541446.08	1.92171E-08
3870000	0.811998	58703120.8	1.38323E-08
3880000	1.031998	58864821.36	1.75317E-08
3890000	0.811998	59026547.69	1.37565E-08
3900000	0.999998	59188299.73	1.68952E-08
3910000	0.811998	59350077.41	1.36815E-08
3920000	0.889998	59511880.67	1.4955E-08
3930000	0.843998	59673709.44	1.41435E-08
3940000	0.874998	59835563.65	1.46234E-08
3950000	1.186997	59997443.24	1.97841E-08
3960000	0.858998	60159348.15	1.42787E-08
3970000	1.046998	60321278.31	1.7357E-08
3980000	0.827998	60483233.66	1.36897E-08
3990000	1.015998	60645214.14	1.67531E-08
4000000	1.030997	60807219.68	1.69552E-08
4010000	1.280997	60969250.22	2.10105E-08
4020000	1.264997	61131305.69	2.06931E-08
4030000	1.281997	61293386.04	2.09157E-08
4040000	1.139998	61455491.21	1.855E-08
4050000	0.999998	61617621.13	1.62291E-08
4060000	1.296997	61779775.74	2.09939E-08
4070000	0.905998	61941954.98	1.46266E-08
4080000	0.858998	62104158.79	1.38316E-08

4090000	1.234997	62266387.11	1.98341E-08
4100000	1.108997	62428639.88	1.77642E-08
4110000	1.062998	62590917.04	1.69833E-08
4120000	1.343997	62753218.53	2.14172E-08
4130000	1.015998	62915544.3	1.61486E-08
4140000	0.890998	63077894.27	1.41254E-08
4150000	0.890998	63240268.4	1.40891E-08
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4240000	1.421998	64702713.03	2.19774E-08
4250000	1.577997	64865325.55	2.43273E-08
4260000	1.093998	65027961.6	1.68235E-08
4270000	0.874999	65190621.12	1.34222E-08
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4290000	1.202997	65516010.38	1.83619E-08
4300000	0.936998	65678740	1.42664E-08
4310000	0.921998	65841492.87	1.40033E-08
4320000	1.499997	66004268.95	2.27258E-08
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4360000	1.499997	66655604.2	2.25037E-08
4370000	1.327998	66818495.49	1.98747E-08
4380000	1.608997	66981409.66	2.40215E-08
4390000	1.640996	67144346.66	2.44398E-08
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4410000	1.592997	67470288.94	2.36103E-08
4420000	1.733997	67633294.12	2.56382E-08
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4580000	1.390997	70244419.77	1.98022E-08
4590000	1.765996	70407802.77	2.50824E-08
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4610000	1.390998	70734634.09	1.9665E-08
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4690000	1.249997	72042823.33	1.73507E-08
4700000	1.155998	72206443.41	1.60096E-08
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4740000	1.858996	72861136.07	2.55142E-08
4750000	1.280998	73024862.09	1.75419E-08
4760000	1.281998	73188609.16	1.75164E-08
4770000	1.296998	73352377.24	1.76817E-08
4780000	1.280997	73516166.28	1.74247E-08
4790000	1.296997	73679976.24	1.76031E-08
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4830000	1.264998	74335424.43	1.70174E-08
4840000	1.265998	74499338.35	1.69934E-08
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4860000	1.280997	74827228.12	1.71194E-08
4870000	1.265997	74991203.89	1.68819E-08
4880000	1.281998	75155200.2	1.7058E-08
4890000	1.264998	75319216.99	1.67952E-08
4900000	1.249998	75483254.24	1.65599E-08

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<b>4960000</b>	1.265998	76467904.84	1.65559E-08
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<b>4980000</b>	1.249997	76796283.44	1.62768E-08
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<b>5000000</b>	1.249998	77124742.35	1.62075E-08