Size	SIMD Mult	Manual Mult	SIMD Mult/Red	Manual Mult/Reduction			
1000	698.812526	165.398593	821.693701	183.083013			
2000	541.565182	173.988776	905.794741	187.336115			SIMD vs Manual
3000	483.325042	171.301276	923.930365	187.84042		2400	0145 14 11
4000	556.87039	173.807252	901.713547	187.643676		2400	— SIMD Mult — Manual
5000	600.023896	173.683461	906.947156	186.999762			Mult
6000	636.672177	177.069497	909.641542	187.038257	ပ	1800	—— SIMD Mult/
7000	600.49751	175.857322	914.434305	187.09574	MegaOperations/Sec		Reduction
8000	682.419113	174.299536	910.954141	187.178283	atio	1200	/ ' Manual Mult/
9000	706.71381	175.589199	911.022995	187.332171)ber	1200	Reduction
10000	724.480138	153.595683	966.370511	198.294678)ega(I I I I I I I I I I I I I I I I I I I
11000	771.767506	158.73015	914.228993	187.243609	Me	600	The state of the s
12000	700.320822	172.850886	917.501375	157.207989			
13000	428.576115	172.82407	913.499049	187.325273			
14000	285.842583	183.922537	965.184429	198.395832		0	600000 1200000 1800000 2400000 3000000
15000	551.693804	185.301871	968.679456	198.286801			0:
16000	498.147485	183.357965	967.293277	198.319242			Size
17000	471.384246	184.072338	965.360579	198.465982			
18000	462.190272	185.169942	968.158356	198.40614			
19000	448.070889	183.263242	970.328433	198.439645			
20000	433.943018	183.056312	971.581199	198.465854			
21000	426.629866	184.921017	971.817411	198.532759			
22000	393.87699	184.271574	969.974839	198.548786			
23000	396.544874	183.979398	978.848391	198.609732			
24000	397.660439	185.469973	977.039412	198.563728			
25000	389.711607	186.23223	975.457473	198.551364			
26000	385.928467	184.884946	972.944695	198.68865			
27000	382.138531	174.498638	978.863703	198.691579			
28000	371.683049	184.708753	979.39773	198.698525			
29000	375.764475	183.668693	979.928217	198.719972			
30000	368.890252	184.127024	979.495948	198.70444			
31000	367.198505	184.974139	977.671101	198.818633			
32000	361.84768	184.543342	980.452138	198.761469			
33000	346.908308	185.209093	984.868836	198.841898			
34000	278.560659	182.948151	1001.443237	199.380746			
35000	290.335957	184.888778	1000.171403	179.700052			
36000	271.774006	193.450619	1057.61051	198.598776			
37000	305.987434	194.766565	180.268849	200.295576			
38000	275.597972	178.635226	1002.691331	199.305575			
39000	262.767814	184.318731	1002.62232	199.358985			

40000 262.078541 179.548522 854.99316 184.86389 41000 286.693249 175.264603 870.654792 186.142805 42000 303.80187 194.412944 1505.535845 210.438762 43000 344.08258 193.591666 1041.767658 210.064529 44000 305.867792 194.421863 1059.47503 210.464889 45000 308.872882 194.347505 1058.101576 210.412129 46000 306.838498 194.578858 1057.787344 210.36938 47000 308.016968 194.085755 1060.277916 210.460327 48000 295.878049 194.087201 1058.784596 210.363008 49000 306.688949 195.043504 1058.086962 210.453983 50000 304.475171 194.629022 1057.663846 210.483773 51000 308.975745 195.139522 1057.899556 210.451332 53000 309.225418 190.549465 1057.356692 210.471974 54000 307.715097 194.341775 1057.310075 210.468056	
42000 303.80187 194.412944 1059.535845 210.438762 9 43000 344.08258 193.591666 1041.767658 210.064529 9 44000 305.867792 194.421863 1059.47503 210.464889 9 45000 308.872882 194.347505 1058.101576 210.412129 9 46000 306.838498 194.578858 1057.787344 210.36938 9 47000 308.016968 194.085755 1060.277916 210.460327 9 48000 295.878049 194.067201 1058.784596 210.453983 9 50000 306.688949 195.043504 1058.086962 210.453983 9 50000 304.475171 194.629022 1057.663846 210.453933 9 51000 308.975745 195.139522 1057.89956 210.451332 53000 309.225418 190.549465 1057.356692 210.471974 54000 307.715097 194.341775 1057.310075 210.468056 55000 308.427356 194.396433 1057.305973 210.442543	
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44000 305.867792 194.421863 1059.47503 210.464889 45000 308.872882 194.347505 1058.101576 210.412129 46000 306.838498 194.578858 1057.787344 210.36938 47000 308.016968 194.085755 1060.277916 210.460327 48000 295.878049 194.067201 1058.784596 210.363008 49000 306.688949 195.043504 1058.086962 210.453983 50000 304.475171 194.629022 1057.663846 210.483773 51000 308.619562 193.93847 1054.32896 210.459422 52000 308.975745 195.139522 1057.899556 210.451332 53000 309.225418 190.549465 1057.356692 210.471974 54000 307.715097 194.341775 1057.310075 210.468056 55000 308.427356 194.396433 1057.305973 210.442543 56000 307.105087 194.984716 1057.621506 210.431386	
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48000 295.878049 194.067201 1058.784596 210.363008 9 49000 306.688949 195.043504 1058.086962 210.453983 9 50000 304.475171 194.629022 1057.663846 210.483773 9 51000 308.619562 193.93847 1054.32896 210.459422 9 52000 308.975745 195.139522 1057.899556 210.451332 1057.356692 210.471974 54000 307.715097 194.341775 1057.310075 210.468056 1057.305973 210.442543 55000 308.427356 194.396433 1057.305973 210.442543 1057.621506 210.431386	
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53000 309.225418 190.549465 1057.356692 210.471974 54000 307.715097 194.341775 1057.310075 210.468056 55000 308.427356 194.396433 1057.305973 210.442543 56000 307.105087 194.984716 1057.621506 210.431386	
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55000 308.427356 194.396433 1057.305973 210.442543 56000 307.105087 194.984716 1057.621506 210.431386	
56000 307.105087 194.984716 1057.621506 210.431386	
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64000 321.033729 204.008124 1114.943844 221.556784	
65000 323.156387 204.528573 1115.324527 221.564724	
66000 318.168892 204.282504 1114.413155 221.515906	
67000 322.513881 199.936741 1114.345125 221.582826	
68000 322.253492 204.625747 1115.010004 221.545999	
69000 319.624967 204.58265 1112.741707 221.557909	
70000 316.820934 204.263861 1113.373188 221.614364	
71000 320.053378 204.361832 906.90781 232.629001	
72000 336.327593 214.316332 1170.865055 232.713734	
73000 336.990998 215.048697 1170.284401 232.65375	
74000 334.706846 213.590722 1168.371933 232.674405	
75000 337.506417 214.841848 1170.649401 229.717478	
76000 335.51121 214.433645 1171.321134 232.637158	
77000 337.860081 213.335992 1170.337278 232.650888	
78000 337.198141 214.108074 1170.94261 232.644844	
79000 335.631769 213.976745 1098.534349 74.591845	

80000	331.466077	214.540483	1169.300013	232.650793				
81000	336.109345	215.202315	1169.607444	232.70245				
82000	335.29878	215.21688	1169.27369	230.043064				
83000	348.27415	225.667963	1226.830633	243.707641				
84000	348.677932	225.282611	1226.940108	243.689457				
85000	352.479175	225.307014	1225.207544	243.722702				
86000	381.373037	223.484011	1213.866302	243.408169				
87000	351.380275	224.238359	1226.820764	243.728885				
88000	353.532914	225.143976	1226.874097	243.751107				
89000	352.837168	224.919004	1224.697633	243.716093				
90000	348.612907	224.947136	1225.15649	243.739945				
91000	353.371983	224.727424	1225.539782	243.776338				
92000	353.373174	225.542709	1224.984322	243.693114				
93000	354.34781	218.202296	1278.93057	254.802896				
94000	371.632574	234.744128	1279.538312	254.571452				
95000	369.823924	233.824854	1281.394174	254.832424				
96000	369.654451	234.526161	1280.768431	254.892069				
97000	363.539601	234.789514	1281.086179	254.830614				
98000	370.073865	235.957518	1278.372053	254.611588				
99000	366.933027	234.528242	1280.92328	254.834786				
100000	363.613882	233.004643	1281.328444	254.814076				
101000	370.383955	235.6966	1282.002471	254.793139				
102000	370.434931	235.174226	1280.409838	254.850913				
103000	369.392762	234.152108	1281.461203	255.127947				
104000	383.555783	245.898347	1337.620533	265.889453				
105000	380.614058	245.336846	1337.613693	261.405368				
106000	384.931043	244.855154	1334.676365	265.896738				
107000	384.03698	244.965614	1336.530983	265.91779				
108000	383.882621	245.862454	1337.295677	265.560491				
109000	386.075769	244.76176	1333.561747	265.924356				
110000	380.902258	245.374138	1337.256002	265.9388				
111000	381.880299	244.358296	1338.865689	265.902657				
112000	381.418133	246.066236	1337.952431	265.882315				
113000	384.018053	246.583294	1391.814186	277.015101				
114000	400.053341	256.034211	1393.745233	276.971966				
115000	399.526135	255.666913	1393.145759	276.916926				
116000	400.498552	253.647829	1388.972065	276.989792				
117000	400.409304	254.911403	1392.061698	276.987324				
118000	399.038254	255.675232	1391.64069	276.9654				
119000	398.778871	253.847712	1393.377286	277.000574				

120000	400.120032	255.862992	1391.772307	276.91115				
121000	399.072569	255.712858	1393.672082	276.877738				
122000	401.593203	249.19166	1447.710244	288.064682				
123000	416.326778	266.354838	1449.002192	288.106811				
124000	414.084209	265.670827	1448.598182	288.048541				
125000	413.682635	264.597861	1392.230241	288.089459				
126000	415.952773	265.897395	1450.493231	288.076382				
127000	412.730293	265.011214	1449.077018	288.04195				
128000	416.406411	263.21796	1448.455396	288.096225				
129000	441.06032	269.163838	1441.453552	287.931648				
130000	416.641293	265.650927	1447.887184	288.053533				
131000	415.650012	262.004193	1506.907561	299.159844				
132000	431.869342	276.427054	1503.588074	299.139972				
133000	434.238923	277.016961	1505.41038	299.13655				
134000	434.709267	275.017907	1505.770235	299.0751				
135000	434.683215	275.781481	1505.402727	299.163007				
136000	430.694589	275.368305	1507.760484	299.158179				
137000	432.77873	271.709489	1505.444885	299.107045				
138000	433.251072	275.599278	1504.54631	299.145482				
139000	432.20049	276.292513	1506.922026	299.190464				
140000	420.546707	285.558687	1562.691899	308.182015				
141000	448.948789	286.628475	1561.167882	310.228293				
142000	445.336508	287.390636	1560.868469	310.244174				
143000	444.242865	286.664488	1558.447281	310.191187				
144000	448.461218	286.211182	1559.099519	310.225821				
145000	449.364388	286.472945	1562.550583	311.333837				
146000	462.829413	316.688393	1729.058816	311.172587				
147000	446.537054	287.062279	1560.194836	310.257493				
148000	446.700755	285.682849	1471.553317	308.015053				
149000	462.391157	295.796906	1618.421671	313.699399				
150000	466.05272	296.513006	1617.146133	321.322304				
151000	434.204996	294.920723	1615.007842	321.165897				
152000	461.079714	287.863521	1727.253006	324.255601				
153000	463.969574	295.174192	1615.611281	321.29695				
154000	460.51806	296.085517	1615.32255	321.247609				
155000	465.809572	296.853546	1619.018781	321.298792				
156000	434.062806	296.756225	1617.049594	314.788394				
157000	478.662919	286.344817	1672.098336	331.923191				
158000	478.500784	298.458973	1667.686896	332.400652				
159000	475.755893	291.437779	1607.538295	332.37245				

160000	460.862684	307.234998	1673.692643	327.937399				
161000	452.815757	307.678195	1674.240623	332.404938				
162000	475.956838	305.319342	1670.981663	332.377236				
163000	479.53024	307.029855	1673.150589	332.423759				
164000	476.500398	306.232962	1674.306533	329.286189				
165000	494.111095	316.844614	1727.206011	343.484513				
166000	493.625984	316.825337	1727.798812	343.500391				
167000	492.514959	316.110667	1726.169556	341.266239				
168000	493.480475	317.144494	1730.460137	343.285903				
169000	492.688388	317.929131	1728.140125	343.523861				
170000	493.70095	315.352081	1728.485434	343.471123				
171000	507.600654	317.138851	1719.335994	343.330058				
172000	494.535663	317.691345	1729.147206	343.399056				
173000	497.372268	326.846164	1784.829961	354.572134				
174000	511.327069	326.399529	1783.993259	354.675705				
175000	509.375418	326.322681	1785.422717	352.371458				
176000	509.104577	326.009241	1783.560772	354.579211				
177000	510.148207	326.664696	1784.831898	352.180638				
178000	511.23276	325.98464	1783.209821	354.624764				
179000	511.133578	326.195899	1782.371349	354.221873				
180000	506.966573	326.349457	1784.103566	349.275833				
181000	524.46438	336.960468	1838.926294	365.658044				
182000	524.908646	337.166284	1839.703117	365.657159				
183000	527.769923	334.751609	1837.70002	365.655555				
184000	525.208581	337.101295	1838.915073	365.645246				
185000	524.92992	337.039555	1839.898999	365.611205				
186000	521.623546	337.380081	1842.277242	365.637182				
187000	527.082754	336.827087	1840.968012	365.690773				
188000	523.121707	336.065355	1841.422199	366.691893				
189000	541.007815	347.148882	1895.839205	376.734174				
190000	541.000736	347.310448	1896.47256	376.489612				
191000	541.722573	344.990767	1896.007505	376.758536				
192000	536.803167	345.21074	1897.420789	376.706952				
193000	540.782875	347.642515	1896.135072	374.671434				
194000	539.784033	346.683632	1895.401102	376.718051				
195000	542.427578	346.742489	1896.850295	376.706044				
196000	539.18291	345.696693	1951.549848	387.852306				
197000	556.884157	356.968777	1951.016672	387.779243				
198000	557.83133	356.085006	1948.339434	385.745347				
199000	544.546046	352.687424	1949.680619	387.795548				

200000	554.986697	357.940554	1950.972132	387.794552				
201000	555.836701	356.125989	1949.336557	356.194779				
202000	554.010538	358.538722	1950.729602	387.826847				
203000	556.974667	357.846717	1951.641692	384.866224				
204000	549.426869	356.093028	1950.864969	389.080568				
205000	572.697681	347.535379	2005.360737	398.862175				
206000	572.368493	337.893253	2007.034327	398.900116				
207000	573.176977	367.700612	2005.367034	398.880054				
208000	570.3787	367.276381	2007.896387	396.931417				
209000	571.444194	367.698804	2006.547676	398.901398				
210000	573.435203	367.516448	2008.569823	372.089729				
211000	572.499928	306.296055	1950.687269	381.031493				
212000	538.689057	352.425838	1896.972912	376.709408				
213000	536.968925	346.950177	1896.165004	374.693251				
214000	561.410132	335.367478	1643.057269	398.719627				
215000	568.691298	366.995652	2008.970395	398.84095				
216000	569.809598	367.51945	2006.726259	398.928064				
217000	568.868473	367.225854	1860.856073	370.782983				
218000	570.098595	364.650328	2005.925707	368.256928				
219000	572.538539	367.097351	2005.531216	398.835912				
220000	573.064406	367.854222	2005.725441	396.88911				
221000	574.812804	302.962174	2005.37178	385.840189				
222000	548.286239	357.463171	1953.193792	387.831861				
223000	549.515545	340.805063	1944.626116	391.753157				
224000	544.36978	355.911468	1950.04734	387.821706				
225000	555.801202	354.232527	1948.423134	383.667036				
226000	573.950764	357.750039	2006.855315	398.893691				
227000	493.445009	354.532945	1949.987546	387.77236				
228000	558.585313	356.152615	1951.136012	387.78214				
229000	534.054735	360.600393	2005.078349	396.876979				
230000	572.024043	332.083451	1412.316622	367.861684				
231000	537.624401	345.789747	1895.244705	374.24301				
232000	534.750727	347.471322	2005.151264	398.880387				
233000	573.686735	366.172571	2005.267023	398.890641				
234000	567.370385	350.284716	1717.620273	379.38604				
235000	555.312693	356.447297	1951.519318	387.804134				
236000	558.092457	355.503068	1949.559358	387.907795				
237000	572.539826	312.392491	1470.88034	324.204535				
238000	522.7449	343.124395	1895.176132	376.706853				
239000	526.110725	345.691941	1894.945491	367.072241				
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243000	571.319754	367.280314	2007.136512	398.824862				
244000	573.780129	365.12789	2005.226827	398.881169				
245000	529.524786	334.880163	2007.291731	398.866891				
246000	567.51201	367.12089	1963.319446	398.89671				
247000	569.096887	366.878177	2005.6352	393.339034				
248000	484.126315	350.145493	1900.062834	387.698093				
249000	548.006709	357.212536	1951.1507	387.816036				
250000	550.397719	341.075753	1949.454524	385.118409				
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252000	551.736223	366.333382	2005.938261	362.968045				
253000	567.957324	366.55564	2006.455548	398.904508				
254000	569.38928	366.345799	2006.620286	396.971142				
255000	572.39186	345.51722	2004.969277	372.508031				
256000	567.821389	335.914805	1949.822531	384.7148				
257000	566.364967	360.174506	1942.466618	387.672904				
258000	548.013877	367.08369	2006.938744	397.150367				
259000	568.461153	345.034763	2007.067392	398.857943				
260000	568.296071	337.187648	1962.856687	398.769947				
261000	571.994614	365.51192	2006.503812	398.902636				
262000	569.536738	367.234806	1955.296794	398.748356				
263000	502.901726	366.57147	2006.301169	398.894625				
264000	571.682236	357.352666	1796.346051	365.880534				
265000	509.23346	356.223494	1948.028085	387.759103				
266000	544.079656	355.372674	1946.963557	386.969881				
267000	570.08161	365.780983	2006.447683	398.847971				
268000	570.012651	364.380945	2005.462591	398.849883				
269000	566.602069	362.918133	1639.15448	394.114362				
270000	561.768531	353.986477	2006.196884	398.859556				
271000	570.914539	365.690907	2004.141322	398.844384				
272000	565.062125	351.436623	1509.375298	381.018554				
273000	507.610433	356.747095	1948.969827	387.74058				
274000	547.110403	356.589288	1948.610682	375.461275				
275000	548.752136	356.885621	1946.971573	386.202866				
276000	553.481119	356.245787	1949.455439	387.716688				
277000	550.351171	365.821931	2005.212107	397.014225				
278000	571.024812	366.465503	2003.502512	398.787002				
279000	570.045054	343.713732	2005.405246	398.759986				

280000	521.049472	357.027645	1945.146807	387.731617				
281000	551.40854	354.415819	1948.655355	387.695828				
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283000	560.382722	367.279189	2005.285935	398.752735				
284000	517.900388	359.176321	2003.484932	398.680984				
285000	570.466635	366.922396	2006.265131	374.765772				
286000	567.463697	366.451964	2003.741266	397.231601				
287000	566.309511	365.788691	2005.506395	347.134026				
288000	533.294818	354.74883	1948.368275	387.481132				
289000	552.302475	355.998138	1950.304356	387.66345				
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293000	570.785152	366.497845	2003.775083	397.245046				
294000	568.851325	367.35306	2004.527175	394.642525				
295000	468.049663	353.800597	1949.575412	387.664643				
296000	545.240201	355.664497	1948.355429	384.71836				
297000	552.624968	327.484194	2004.6573	387.042798				
298000	536.136114	356.461462	1950.070316	386.137909				
299000	562.768443	359.968602	1942.025086	387.633078				
300000	551.956597	365.860797	1956.972665	375.840475				
301000	569.932194	366.976053	2005.209535	398.678666				
302000	486.304571	352.690843	2004.353828	389.21739				
303000	551.759806	356.896343	1949.392973	387.53642				
304000	541.554505	357.304049	1948.717925	387.592944				
305000	551.051787	356.014779	1950.514462	380.371342				
306000	537.496537	366.691031	2005.978576	376.41849				
307000	567.493876	365.660765	2004.243484	398.64176				
308000	566.557647	366.2076	2003.981987	398.629646				
309000	477.822245	358.993008	1948.764552	387.352503				
310000	542.780752	357.288986	1888.424543	387.459316				
311000	549.186645	356.4041	1950.03888	394.396277				
312000	568.437513	336.029106	2003.982241	398.59419				
313000	570.68364	366.016375	2005.561816	397.240386				
314000	564.664924	365.782345	2004.839739	398.650173				
315000	550.649243	346.486246	2005.820022	358.659637				
316000	548.303642	357.123886	1950.256093	387.530354				
317000	548.927256	361.550628	2004.958641	398.561158				
318000	570.329932	339.024974	2004.450191	397.078598				
319000	551.063178	355.804804	1949.639458	387.396382				

320000	545.687705	354.116269	2004.171216	377.261507				
321000	566.094631	367.218487	2005.986694	397.296895				
322000	568.81917	336.052718	1628.713982	383.876702				
323000	544.683438	355.247213	1949.505995	387.513199				
324000	553.057691	356.109309	1950.291632	387.53431				
325000	542.302969	359.774749	2005.578552	391.019782				
326000	560.612337	341.130144	1751.172373	382.756693				
327000	546.197997	356.002452	1949.619953	387.512846				
328000	549.249051	362.170017	2005.883129	386.136295				
329000	513.535327	330.989578	1896.198927	387.403387				
330000	553.159461	356.539363	1949.916652	387.480392				
331000	547.61794	359.811942	2006.157858	371.959847				
332000	564.18256	366.217132	2001.507195	396.986727				
333000	555.726148	366.270551	2005.504524	398.536068				
334000	507.199498	361.919952	1799.035839	387.53304				
335000	545.812396	356.322329	1951.111551	387.16418				
336000	545.96683	356.312295	1948.933262	387.432877				
337000	554.229827	342.991373	1947.988099	387.410648				
338000	553.433336	355.764757	1949.441416	385.614966				
339000	565.553296	366.994724	2005.193384	372.391612				
340000	565.071287	365.331346	2004.693288	398.498831				
341000	551.533615	367.167278	1909.968198	365.760916				
342000	552.699576	357.38507	1945.569562	387.617985				
343000	543.396466	355.183503	1950.692441	387.41522				
344000	551.719712	366.248499	1840.674638	390.103618				
345000	487.990487	365.203807	2004.508706	387.215817				
346000	552.689169	308.346567	1533.320955	375.22435				
347000	528.089165	343.539526	1891.183417	375.932927				
348000	522.718734	346.583168	1894.238384	374.844893				
349000	532.505741	366.163167	2003.858423	382.044144				
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352000	550.977983	326.732168	1858.019858	388.081062				
353000	544.904448	355.294494	1608.412933	383.441414				
354000	519.88944	356.283778	1912.273125	387.308532				
355000	549.899079	358.255467	2004.05324	388.321902				
356000	547.026618	355.841653	1951.529651	387.343444				
357000	553.899716	354.381124	2003.558143	398.401483				
358000	570.818116	366.090604	2006.276608	397.309394				
359000	557.353886	360.860598	1487.343092	353.361758				

360000	546.937905	353.588036	1949.444459	387.342507				
361000	548.154874	356.505887	1948.717959	390.389284				
362000	565.259348	344.507953	2004.88483	398.180688				
363000	562.05523	367.220837	2006.799908	398.398503				
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365000	564.287849	334.045352	2005.15298	384.218209				
366000	555.472083	365.570455	1781.108541	381.277803				
367000	544.790866	348.096613	2003.209495	391.820247				
368000	558.587989	365.384579	2005.340336	396.45261				
369000	566.327021	365.890299	2005.031651	375.227273				
370000	528.49291	356.236448	1949.697761	387.28167				
371000	549.706995	352.983376	1663.61002	377.705406				
372000	529.428092	356.660394	1948.694839	385.546964				
373000	550.039593	351.847623	2005.710609	398.374886				
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375000	562.615334	365.573327	2006.946703	398.35728				
376000	569.145932	371.950942	1973.929445	384.303257				
377000	500.951406	355.255854	1949.438679	387.336063				
378000	551.031653	362.176163	2006.358798	398.427372				
379000	569.032329	350.012005	1979.194959	394.902733				
380000	553.848662	342.813324	2005.012582	396.689521				
381000	551.842008	355.47909	1950.275695	387.293521				
382000	554.426705	355.741642	1949.367531	386.224522				
383000	550.842945	355.874532	1918.97227	380.898203				
384000	552.545021	356.763928	1948.892343	374.114036				
385000	570.220848	359.241656	2001.195524	398.761251				
386000	555.143275	349.629763	1925.455916	395.409967				
387000	569.709136	366.81491	1981.069787	385.977543				
388000	505.99302	340.332071	1944.793938	385.212601				
389000	550.957161	356.854215	2005.702567	398.364351				
390000	568.980081	376.419898	2061.52872	379.480793				
391000	569.591393	355.830756	2004.16211	398.321549				
392000	571.389422	376.924526	2060.706767	408.111424				
393000	529.434107	332.09593	1949.946374	381.337922				
394000	549.365513	355.732437	1949.665019	377.339695				
395000	568.45574	345.053505	2005.951843	398.378248				
396000	568.101937	366.916715	1938.752991	408.013973				
397000	568.061491	354.553873	1911.557918	409.458595				
398000	519.500181	365.538702	2005.553055	364.587387				
399000	535.909283	357.068386	1948.460979	387.170396				

400000	548.061575	355.146428	1950.001926	387.31392				
401000	528.068623	356.493245	2005.371027	397.269244				
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403000	561.927789	365.999965	2005.96315	406.07439				
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405000	534.896372	354.724224	1949.768201	387.320743				
406000	545.063749	350.246681	2005.800015	391.418865				
407000	546.796802	355.402334	1950.12097	387.008313				
408000	561.324728	365.965233	1634.386211	389.413673				
409000	528.53371	324.733582	1893.097831	375.914626				
410000	523.373073	348.713586	2005.497983	371.880398				
411000	534.890897	356.412256	1949.76163	379.314355				
412000	538.369969	350.997958	1949.954338	353.314768				
413000	528.714439	346.170997	1893.895978	373.937719				
414000	501.510587	329.100078	1936.307652	374.902538				
415000	526.16898	344.996715	1895.331991	383.062895				
416000	547.459904	355.512713	2006.859933	373.256193				
417000	522.534131	355.362395	1779.025463	387.124087				
418000	532.53292	366.544485	2004.478927	396.741405				
419000	506.107717	343.432206	1893.460115	375.983368				
420000	517.955799	350.088982	2005.194369	398.312671				
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422000	544.084371	357.411761	2001.70763	398.299207				
423000	551.045296	360.832217	1979.401112	398.313336				
424000	519.093842	350.35155	2001.529472	387.77201				
425000	544.556227	355.980388	1950.525532	373.658895				
426000	548.506096	355.410499	1948.916415	387.258644				
427000	559.484172	355.662025	2000.187357	360.899153				
428000	474.643713	344.869264	1893.034686	375.839492				
429000	516.376604	326.247899	1949.530342	385.975678				
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431000	562.182473	352.009433	1931.747875	391.579319				
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435000	549.098219	346.597528	1901.930365	389.213332				
436000	547.35156	354.365524	1950.81787	391.243328				
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446000	548.52004	341.480109	1950.707467	385.945692				
447000	545.950861	355.44741	1949.479299	388.091918				
448000	551.107198	340.962367	2004.931755	398.352172				
449000	544.049863	344.293735	1949.461604	387.331416				
450000	544.598371	356.553412	2005.883915	398.370401				
451000	561.187479	352.113775	2005.826203	398.347255				
452000	560.051246	364.831827	2005.039159	392.511029				
453000	522.124598	345.064512	1950.333226	387.285742				
454000	545.72358	355.716857	1926.365336	370.089589				
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456000	553.216787	366.655864	2005.682757	396.952865				
457000	561.646542	339.57018	1580.669459	363.852054				
458000	520.705431	345.103523	1892.702754	381.145449				
459000	540.252969	353.714969	2005.408868	398.424013				
460000	551.530317	357.726107	2006.044305	398.391883				
461000	562.53813	352.308306	2006.057353	398.367471				
462000	525.182619	353.547527	1950.280526	387.377856				
463000	540.882794	352.834488	1950.393466	387.328098				
464000	549.928529	362.405717	2006.55587	398.359171				
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466000	549.190887	366.1648	2005.560456	363.086421				
467000	477.833442	346.177481	1894.423459	374.78522				
468000	555.820135	365.602151	2005.57108	377.477194				
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470000	579.592906	372.346831	1999.676694	379.385638				
471000	538.077248	322.638097	1950.383262	387.246676				
472000	534.371886	356.345555	1947.869692	370.392169				
473000	541.918481	356.488238	1950.974055	387.230401				
474000	546.612556	350.937981	1951.516721	387.282747				
475000	546.815462	355.123726	1937.968704	361.07285				
476000	545.000311	349.983788	1949.245903	382.393817				
477000	537.003118	354.955346	1946.716345	398.371103				
478000	521.618809	354.559162	1951.100057	387.334329				
479000	550.475376	343.616234	2003.773309	390.913826				
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483000	566.711174	365.463337	1782.590412	392.333018				
484000	562.608831	335.170307	1949.042996	380.775255				
485000	537.398503	339.868859	1949.450958	385.777614				
486000	546.685354	358.202355	2003.173734	391.998711				
487000	536.795279	366.771552	2006.286594	397.240686				
488000	561.47262	365.632081	1896.18391	364.620731				
489000	489.288194	354.966445	1948.851606	385.856352				
490000	545.719003	355.568713	1950.512714	381.474656				
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493000	545.288839	355.752473	1950.405137	386.099175				
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496000	518.610375	324.843308	1893.679054	376.255828				
497000	520.87973	355.750125	1949.990801	367.77193				
498000	544.544982	356.024281	1950.020015	395.442093				
499000	558.631076	366.430557	2005.401316	379.849263				
500000	567.149991	349.691677	2006.774866	398.370824				
501000	555.408973	339.355942	1740.169433	371.396399				
502000	510.025766	353.964331	1942.777061	370.719921				
503000	511.106146	354.875374	1950.451566	387.283847				
504000	539.825522	366.007225	2005.602969	389.041682				
505000	553.11067	365.693464	1945.517774	364.306873				
506000	544.376356	355.686771	1914.621477	380.021103				
507000	558.341145	366.875019	2005.696691	379.27356				
508000	557.603882	352.419486	2007.889272	398.402937				
509000	565.144885	365.64831	2006.749613	377.656953				
510000	506.501093	346.886626	1950.391181	387.209044				
511000	547.573531	366.11351	2004.770632	390.907686				
512000	555.158583	355.960461	1950.275598	387.22842				
513000	570.608015	370.692328	2002.162178	385.062575				
514000	509.37841	356.44987	1950.264459	386.219334				
515000	558.856851	344.792033	2005.951648	384.066678				
516000	548.537605	355.465174	2005.503487	397.531911				
517000	538.113417	367.121272	2005.166065	378.978912				
518000	510.788182	349.473665	1894.195658	374.665658				
519000	534.320023	348.749306	1949.471492	386.873723				
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523000	541.815068	363.786861	2007.808566	379.808701				
524000	566.714396	365.473622	2005.726298	396.56502				
525000	547.898315	358.358596	1983.22008	380.38324				
526000	531.269127	346.801906	1919.112713	387.30779				
527000	522.109398	355.123688	1948.568162	387.279022				
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529000	558.616743	365.480663	2006.326191	398.364672				
530000	545.158123	342.139664	1907.147126	386.946895				
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533000	550.144143	360.839015	2007.154967	387.441938				
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540000	546.859254	355.545488	1949.19814	388.355659				
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542000	527.806238	331.344451	1947.979605	385.913446				
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544000	567.184815	366.587936	1975.731905	398.34657				
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556000	512.53262	313.091447	1852.35158	375.770889				
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578000	569.409321	364.088984	1567.041169	377.535957				
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583000	512.630675	352.125224	1948.588022	387.311336				
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585000	539.944844	354.635725	2007.343112	397.374745				
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587000	529.2403	338.934706	1854.238546	387.295903				
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596000	535.410776	355.035577	1950.306458	386.388493				
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630000	547.278809	355.443217	1988.893786	390.822253					
631000	539.444876	353.869344	1779.369454	374.325206					
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647000	547.796281	352.314576	1998.850742	395.502881				
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650000	568.298556	342.38584	1933.729597	386.20683				
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668000	547.525278	344.105165	1948.379639	386.125829				
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688000	554.711663	344.064168	1948.423424	385.989695				
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713000	561.619418	305.724247	1672.18982	331.423966				
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715000	595.19697	314.234332	1726.394277	337.747193				
716000	585.367611	317.173998	1782.766419	354.081907				
717000	609.289239	324.712378	1782.695179	353.517873				
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719000	627.426479	336.717209	1780.518307	364.685278				

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723000	666.081964	356.281895	1949.338748	377.982494				
724000	666.123215	353.117334	1800.668016	383.70423				
725000	665.057685	353.720136	1934.530152	385.134141				
726000	821.250244	351.766683	1816.180493	386.583527				
727000	641.807723	348.416692	1880.593949	355.218437				
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733000	662.48269	353.298303	1950.40698	360.676516				
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767000	610.708175	337.319152	1878.318281	361.087141				
768000	619.259453	343.114172	1888.792442	367.121585				
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786000	503.474358	336.230937	1749.551493	373.67218				
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796000	619.81412	353.700121	1912.969488	360.080955				
797000	560.712815	343.222328	1748.144383	346.594222				
798000	559.12972	350.206284	1981.240279	378.23849				
799000	597.302345	326.530679	1694.994341	369.261371				

800000	561.858516	343.436815	1909.467383	379.45066				
801000	591.012186	355.488255	1979.95819	375.279879				
802000	503.009592	342.525867	1866.044964	357.867963				
803000	577.623043	355.822371	1926.19068	391.395156				
804000	576.564379	344.189723	1770.19986	372.275478				
805000	563.184391	336.71442	1852.955879	386.533833				
806000	592.51723	348.098588	1919.340069	379.381241				
807000	542.732264	333.163104	1852.128099	375.273782				
808000	570.109338	349.47462	1915.899615	376.786588				
809000	594.45562	345.444678	1646.363566	361.783014				
810000	558.604896	335.338326	1675.405681	383.896809				
811000	715.501957	362.724613	1741.621539	375.617905				
812000	559.04692	340.272888	1899.264169	379.450956				
813000	579.791173	354.426275	1914.01754	375.165606				
814000	606.895647	365.817212	1977.254297	351.583573				
815000	556.375138	343.953694	1793.116205	385.701135				
816000	570.460623	354.217709	1838.318102	391.292777				
817000	602.053616	321.000547	1821.412405	374.921987				
818000	555.201107	331.154649	1906.848813	386.199369				
819000	579.967127	354.940038	1922.7293	359.931019				
820000	549.810114	344.894157	1919.093788	362.259297				
821000	576.07486	348.073091	1921.366715	384.359517				
822000	617.588656	330.662424	1886.575915	372.131093				
823000	563.917632	333.912981	1900.192556	383.161205				
824000	593.225709	327.621819	1822.553199	361.823415				
825000	560.823137	342.873814	1971.260192	373.934456				
826000	580.419351	349.462922	1909.040888	386.286729				
827000	588.08847	320.647281	1814.384312	372.346581				
828000	577.535544	337.56444	1909.550076	376.910671				
829000	580.620445	351.273121	1810.18595	352.031934				
830000	551.83235	339.285685	1803.246276	359.861172				
831000	572.54788	354.392916	1868.158784	365.878465				
832000	570.247738	335.668218	1837.877943	370.410274				
833000	561.602691	331.152682	1859.690507	373.806445				
834000	586.239401	350.739961	1882.027968	365.855103				
835000	565.148413	340.606958	1668.18835	371.387258				
836000	558.842209	349.25741	1858.4179	384.821109				
837000	500.8596	341.302913	1855.271106	367.659655				
838000	557.391727	354.664108	1925.352365	371.527185				
839000	585.48377	348.125268	1802.142404	350.71468				

840000	560.095964	339.092523	1632.16771	372.922953					
841000	569.930314	354.818186	1849.278342	376.656607					
842000	590.270765	346.631438	1917.563011	364.753544					
843000	541.409127	352.369949	1920.964728	377.674127					
844000	584.625187	351.488286	1899.224121	384.921652					
845000	566.587433	341.355388	1908.211623	381.243711					
846000	573.296965	352.058607	1922.513176	373.130708					
847000	583.477595	345.503036	1892.619008	384.491249					
848000	571.330784	352.931873	1925.496043	386.985777					
849000	609.324604	353.303072	1969.357814	374.185684					
850000	580.936401	346.748984	1917.575824	387.47834					
851000	606.47395	349.338453	1906.216813	385.91024					
852000	602.377697	355.779305	1973.601927	371.907861					
853000	586.069815	355.239047	1918.936742	389.532223					
854000	688.307238	350.70846	1869.641737	391.767201					
855000	551.581589	349.658214	1802.223365	381.376175					
856000	573.111562	339.670813	1618.897217	372.827984					
857000	559.496987	339.203896	1722.710023	373.104764					
858000	549.943243	344.543859	1777.494208	381.156137					
859000	576.989859	349.343912	1867.651166	379.437241					
860000	567.990436	351.173635	1596.053662	375.846364					
861000	575.903553	321.036025	1766.378483	371.58934					
862000	556.972395	331.719631	1787.539899	371.988329					
863000	564.316742	357.224461	1669.63641	381.276707					
864000	531.268601	348.808057	1866.695462	362.202645					
865000	553.278127	347.691589	1869.587118	381.401203					
866000	582.09526	355.951459	1677.348621	373.759817					
867000	560.31388	345.212437	1868.397584	383.418795					
868000	576.570258	345.936501	1799.500779	383.997056					
869000	576.357027	349.784473	1754.049567	365.352631					
870000	550.320134	347.164305	1812.454687	381.512684					
871000	570.344572	358.048843	1684.019226	384.397436					
872000	627.159457	339.110923	1816.450954	375.020051					
873000	695.900882	354.338907	1576.52655	355.333048					
874000	666.72922	340.383636	1790.803787	365.594618					
875000	678.061718	345.74362	1755.473577	374.250696					
876000	615.307242	340.773025	1792.984027	381.625681					
877000	631.778381	342.490764	1863.376469	376.884476					
878000	705.078172	337.81925	1542.320717	360.941374					
879000	678.066515	331.77461	1873.038262	371.922594					
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880000	686.225657	351.587517	1917.340824	364.657102				
881000	655.629859	340.041793	1921.613038	360.951962				
882000	687.399853	344.35208	1860.053143	363.867841				
883000	681.963344	329.67037	1613.755128	371.311068				
884000	680.250125	321.026122	1856.253754	369.904502				
885000	701.213931	355.220823	1778.901636	345.377444				
886000	672.978693	349.008241	1571.30368	370.164723				
887000	699.343708	349.504999	1888.753059	380.020599				
888000	698.282287	331.854439	1919.979249	375.109618				
889000	681.579119	352.793178	1925.534463	385.480438				
890000	723.688436	354.74364	1643.834602	359.951403				
891000	673.077141	341.044147	1899.555923	367.631586				
892000	690.251284	355.341395	1917.669225	394.081705				
893000	645.062957	338.01226	1864.514702	375.21434				
894000	672.298733	353.210442	1926.657684	379.506642				
895000	699.058731	343.497271	1619.52257	376.068433				
896000	661.809946	342.210435	1898.824026	387.003089				
897000	860.503465	361.285936	1410.397324	368.343939				
898000	663.052612	349.642998	1929.054599	371.678127				
899000	680.377135	354.55147	1863.648909	389.51777				
900000	673.939725	330.861431	1843.125433	374.715372				
901000	653.407073	334.883362	1788.301608	373.059862				
902000	655.343701	350.33616	1870.209167	363.13642				
903000	657.628821	336.959536	1826.223607	373.66548				
904000	660.686866	340.677882	1824.301976	368.955196				
905000	670.460759	324.752802	1826.791852	371.40913				
906000	652.508811	339.002711	1866.386508	378.276096				
907000	658.137726	346.166293	1888.084663	355.598282				
908000	664.081043	341.595583	1870.718518	382.648653				
909000	688.004649	347.194769	1892.389848	380.831243				
910000	604.354808	335.851728	1806.465959	369.234414				
911000	656.077721	345.114191	1883.285904	370.725617				
912000	683.745821	331.893914	1706.880684	370.496005				
913000	643.467988	337.331183	1912.851109	367.009798				
914000	672.931163	349.212438	1900.9074	352.744033				
915000	662.020703	337.152305	1915.953494	367.154039				
916000	688.271066	347.011628	1872.391229	373.832386				
917000	680.368005	330.805216	1762.532821	370.472269				
918000	674.529816	352.923537	1661.42418	377.683435				
919000	669.075047	352.192157	1501.001226	367.412472				
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920000	649.546872	338.435618	1930.194111	370.785639				
921000	669.080488	351.243176	1922.944425	363.890235				
922000	661.227203	341.271537	1911.990382	371.789934				
923000	691.284795	360.354873	1884.550366	370.362197				
924000	695.826095	319.112452	1828.149969	374.166023				
925000	688.828322	350.690291	1733.963187	383.139064				
926000	675.273607	357.893069	1740.817476	354.576119				
927000	659.198125	336.127385	1852.151547	384.868801				
928000	669.757075	353.249419	1946.98248	369.522809				
929000	618.097552	334.909101	1860.35892	373.243016				
930000	675.34448	346.017285	1918.716544	385.844085				
931000	691.288211	327.013645	1804.081755	368.073517				
932000	672.350869	350.125849	1981.010362	338.542234				
933000	649.945489	340.026225	1842.733641	352.45466				
934000	658.862833	344.624903	1895.953939	386.484623				
935000	696.555218	348.698701	1931.73038	390.349556				
936000	655.919218	345.90414	1924.152223	384.54412				
937000	719.355971	356.010749	1977.51081	390.088667				
938000	716.313778	347.447556	1885.419562	387.761294				
939000	790.905348	354.013396	1883.95327	385.708969				
940000	692.976168	347.123107	1931.326943	364.464551				
941000	662.416688	349.321441	1985.202751	395.706022				
942000	660.054907	349.746934	1929.983808	387.266099				
943000	662.201431	348.546805	1859.278452	384.794614				
944000	697.770679	356.802955	1985.754714	397.130062				
945000	670.832215	350.509927	1909.38793	379.82941				
946000	677.364148	346.400999	1921.717431	384.083358				
947000	698.424452	337.126571	1848.598425	367.272065				
948000	661.53673	354.89455	1789.192387	388.078618				
949000	634.51607	346.962869	1927.533668	382.807158				
950000	607.072586	340.432852	1860.355812	371.559652				
951000	679.562392	351.564406	1923.633193	371.890259				
952000	660.240418	338.638673	1860.508753	383.564888				
953000	659.322109	347.326624	1860.583169	385.397597				
954000	680.894555	335.846668	1688.423838	375.43343				
955000	667.945202	354.63732	1982.220221	377.183815				
956000	603.357471	340.361054	1796.49271	369.368388				
957000	653.519342	346.37318	1916.890665	382.375411				
958000	654.892278	329.522045	1838.510442	371.396716				
959000	634.851704	343.377698	1927.793184	372.133813				
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960000	664.026699	331.774684	1725.70931	373.758421				
961000	662.338835	337.357045	1778.35844	383.888508				
962000	680.328877	346.450806	1927.882748	365.026099				
963000	641.988444	336.481162	1844.099842	371.74506				
964000	658.514477	345.665042	1925.319962	377.076266				
965000	620.025738	338.564654	1719.983168	372.141453				
966000	654.237509	358.013935	1988.02247	377.625346				
967000	616.264278	341.685609	1929.862383	369.176123				
968000	672.855831	350.806111	1873.71763	384.490572				
969000	699.539488	347.277847	1562.215347	373.434868				
970000	648.652406	357.721322	1985.576929	384.126316				
971000	664.582803	345.934591	1859.89315	369.504008				
972000	671.308271	345.623472	1832.53773	385.969455				
973000	692.958742	363.835431	1751.404889	361.209446				
974000	648.923215	343.149258	1847.895795	383.741647				
975000	659.329958	355.514264	1923.224871	388.142504				
976000	666.140215	328.866898	1850.457952	379.676271				
977000	674.840734	360.157511	1988.342652	383.375399				
978000	676.784759	327.126733	1863.208494	374.443217				
979000	642.165125	353.80461	1933.525432	391.992933				
980000	677.319474	353.174153	1571.706711	363.293291				
981000	645.486039	347.858279	1932.331006	377.813672				
982000	770.873238	364.945329	1874.078007	370.650098				
983000	641.727429	343.783826	1867.869607	375.520496				
984000	689.088658	364.300749	1824.225482	379.839626				
985000	675.359726	329.376359	1818.295912	380.086552				
986000	660.860125	360.061378	1915.526459	391.872424				
987000	685.878204	355.210254	1865.55527	378.80576				
988000	675.650724	351.794723	1933.505429	383.531885				
989000	687.526024	334.416722	1794.491688	368.947388				
990000	634.415298	344.156894	1830.235492	371.756564				
991000	646.041577	336.616734	1806.60732	364.466066				
992000	627.739635	340.134771	1831.109671	371.559099				
993000	635.559453	339.954632	1726.413092	364.263044				
994000	600.682265	341.058269	1746.991972	364.856467				
995000	626.234768	340.7798	1835.952568	366.472921				
996000	628.776367	341.63619	1800.069406	373.949814				
997000	629.556311	342.78225	1866.05227	375.901722				
998000	653.583216	339.542631	1841.467707	366.639481				
999000	641.221078	337.780951	1785.924961	356.631598				

1000000	632.084484	339.594667	1839.936556	362.50285				
1001000	645.953147	342.957735	1915.25431	375.912602				
1002000	611.223827	339.584697	1794.168415	362.086573				
1003000	656.731663	354.345215	1895.259954	351.070748				
1004000	647.051884	344.94843	1899.187938	382.002943				
1005000	674.553688	353.567478	1932.409883	385.135088				
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1007000	633.359227	343.995133	1814.787185	363.986121				
1008000	627.167556	340.142711	1815.807252	370.178997				
1009000	613.188972	348.537369	1851.155371	370.959018				
1010000	589.753128	340.355094	1766.932816	369.266633				
1011000	626.100395	350.609491	1754.937177	376.239245				
1012000	602.648198	342.374918	1749.620956	371.066222				
1013000	638.929679	341.910691	1872.600322	372.49193				
1014000	589.762561	334.709029	1781.472702	369.397561				
1015000	616.21514	352.685885	1875.621343	371.784385				
1016000	607.790363	330.94635	1731.144404	366.211905				
1017000	654.829513	349.037145	1925.826328	382.690787				
1018000	689.012885	344.970846	1926.465043	370.11291				
1019000	667.900218	349.783453	1984.613877	397.288302				
1020000	684.967381	347.944738	1919.530282	385.76424				
1021000	679.231224	346.425338	1986.78333	365.376874				
1022000	664.798034	346.206783	1921.572758	370.843567				
1023000	639.759255	331.323155	1860.314552	384.094941				
1024000	653.336224	358.324483	1982.317876	355.985829				
1025000	711.771947	339.313079	1827.615711	376.040807				
1026000	663.761468	363.111419	1868.471268	361.091636				
1027000	660.557209	336.841581	1907.220315	372.667607				
1028000	650.616851	348.548539	1985.456716	383.476061				
1029000	661.804428	348.83177	1887.886347	360.860553				
1030000	647.286204	343.867359	1929.619454	378.655311				
1031000	588.387368	339.84746	1826.139475	374.695447				
1032000	651.909424	353.015064	1955.445398	383.846319				
1033000	627.628536	354.514518	1865.395387	380.413948				
1034000	647.540224	357.344412	1926.025	389.487015				
1035000	637.976816	351.57086	1924.972544	383.911191				
1036000	673.339399	358.078789	1990.661556	370.638822				
1037000	648.528303	333.396133	1878.303347	365.664363				
1038000	606.835848	343.82428	1989.916232	379.280055				
1039000	658.847997	334.667386	1875.66795	352.774645				

1040000	648.524201	343.024772	1724.832784	396.145052				
1041000	679.323	340.094273	1928.099137	381.470431				
1042000	621.648275	353.432398	1932.195133	389.670952				
1043000	691.134919	340.91964	1813.099525	385.27247				
1044000	634.651998	357.185013	1912.690447	387.826699				
1045000	664.704992	338.125658	1846.854244	379.728115				
1046000	612.287067	352.236347	1971.460935	381.347651				
1047000	716.691311	345.157135	1752.128233	383.850278				
1048000	734.285382	355.88663	1968.748	394.989066				
1049000	763.730032	345.912137	1819.231831	372.989315				
1050000	734.350467	348.76317	1916.869907	379.297715				
1051000	735.454655	359.305062	1765.187999	376.465565				
1052000	721.203941	356.968227	1975.764942	390.29863				
1053000	748.479052	355.365547	1916.308466	362.277705				
1054000	719.944865	349.700698	1555.473895	372.085798				
1055000	711.211664	358.862335	1902.614986	372.134695				
1056000	719.383294	352.532324	1918.01573	365.494546				
1057000	697.250251	351.816397	1942.704013	372.725914				
1058000	683.869407	339.783874	1886.348418	360.436722				
1059000	693.423607	349.124831	1663.059966	370.647517				
1060000	684.993473	344.942268	1897.441498	363.892649				
1061000	706.500606	354.30962	1833.064957	380.707973				
1062000	670.321666	342.231789	1751.587904	369.47201				
1063000	698.45571	349.422894	1894.614518	385.164604				
1064000	675.848638	349.534222	1890.362531	385.199924				
1065000	716.599885	363.494751	1960.722946	385.354922				
1066000	707.081764	351.657111	1899.890396	376.863148				
1067000	710.937102	357.556592	1956.972277	382.946636				
1068000	695.967688	351.693976	1854.0347	376.409288				
1069000	646.828574	342.22609	1802.898792	375.56185				
1070000	702.697768	342.380608	1818.286872	379.31318				
1071000	640.808557	342.845619	1838.689755	377.336022				
1072000	707.9258	346.124664	1867.983085	377.389311				
1073000	659.262609	350.929521	1864.711919	374.185849				
1074000	737.357817	337.298422	1636.573918	386.009493				
1075000	648.111194	343.755686	1823.92894	388.734299				
1076000	739.989341	337.322263	1889.184256	387.143664				
1077000	646.91756	341.144065	1917.315124	395.149168				
1078000	714.745574	342.137285	1890.607832	379.656871				
1079000	713.85993	350.455072	1895.712926	385.759021				

1080000	727.947735	343.289143	1884.261025	383.86256				
1081000	720.187021	354.403571	1878.030516	385.776861				
1082000	743.606837	344.179877	1885.267037	385.001728				
1083000	703.442712	348.492825	1901.511216	391.425222				
1084000	729.797766	345.408394	1884.28998	383.355172				
1085000	712.402234	356.617673	1961.87277	385.590912				
1086000	743.523439	354.391105	1741.087734	383.31148				
1087000	694.764023	353.099315	1877.008452	396.538043				
1088000	741.444426	343.454833	1825.215498	372.663234				
1089000	686.834844	354.70002	1872.636633	387.804079				
1090000	736.368569	348.53868	1901.246788	379.038148				
1091000	705.192638	361.463666	1965.089492	385.748588				
1092000	722.844669	355.9691	1684.823778	374.283053				
1093000	711.550095	330.575413	1893.414453	385.678177				
1094000	740.536163	353.010724	1863.291624	384.335416				
1095000	703.775901	363.366667	1937.895319	379.057735				
1096000	714.28711	354.76615	1738.176128	384.66803				
1097000	705.71494	360.221439	1932.665044	384.574529				
1098000	733.643362	349.290746	1586.288011	370.398233				
1099000	687.227206	341.050784	1902.210128	383.187984				
1100000	717.869937	355.551763	1758.283929	377.78293				
1101000	684.541426	354.399331	1908.360576	385.150338				
1102000	737.853704	365.389946	1582.335285	368.886962				
1103000	688.562926	347.512559	1954.665222	396.522965				
1104000	737.129284	355.282199	1849.404239	383.246837				
1105000	709.690843	340.256606	1895.811034	385.858512				
1106000	695.371379	362.475227	1716.186784	379.986855				
1107000	701.475128	364.066175	1969.022145	375.146399				
1108000	709.599577	334.999867	1728.899759	373.880342				
1109000	679.323273	350.011756	1900.805073	384.646334				
1110000	885.687296	332.67388	1727.709819	368.087174				
1111000	665.778562	335.23845	1872.643414	372.633475				
1112000	688.939059	342.190698	1768.430975	360.321244				
1113000	683.977715	327.367191	1839.544755	373.689317				
1114000	701.778702	333.063753	1793.320611	374.595057				
1115000	676.360151	330.527653	1843.987116	380.931947				
1116000	720.312757	344.315433	1904.219146	379.407553				
1117000	721.666203	349.541262	1888.882297	385.676053				
1118000	692.359522	332.944204	1831.699866	377.44423				
1119000	681.948656	349.21268	1906.822995	384.585907				
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1120000	687.888435	336.4212	1901.166496	372.982978				
1121000	652.681466	342.469102	1843.992644	381.77116				
1122000	669.048288	346.573556	1892.600808	360.33247				
1123000	647.421959	334.367998	1857.576963	383.768538				
1124000	631.846881	340.766841	1762.893916	364.938501				
1125000	673.185496	341.280466	1801.00855	381.182914				
1126000	696.553298	341.261966	1948.184513	379.637794				
1127000	662.905302	355.588818	1880.724992	376.794538				
1128000	687.950018	355.587275	1964.345715	388.578681				
1129000	726.982381	353.293642	1905.363023	381.125736				
1130000	700.474155	341.390759	1764.993458	383.775467				
1131000	678.647914	345.687405	1848.525508	365.936046				
1132000	681.949895	346.737239	1854.831584	367.521609				
1133000	688.417334	343.395353	1781.376526	372.511848				
1134000	687.433544	349.418069	1858.169548	379.951685				
1135000	688.010554	335.686094	1790.573844	374.156869				
1136000	641.412554	352.905615	1844.209721	383.511957				
1137000	699.472353	338.210163	1846.564596	375.253717				
1138000	689.538587	341.104808	1853.383966	381.560374				
1139000	702.154118	340.987132	1824.457977	374.978313				
1140000	680.007134	354.364229	1909.163985	377.805579				
1141000	704.544962	352.16832	1907.988456	385.168742				
1142000	718.370016	362.246551	1812.011011	387.045827				
1143000	663.427884	347.798675	1882.792475	388.178719				
1144000	692.576538	361.163666	1966.237091	394.598417				
1145000	647.686712	356.233163	1887.333591	389.294503				
1146000	722.253279	360.967848	1836.138292	381.150415				
1147000	658.172963	351.878054	1926.458654	381.37722				
1148000	702.634021	360.796959	1799.198208	390.056814				
1149000	659.176496	352.316736	1881.290395	379.817886				
1150000	702.387875	359.170385	1933.299491	368.192049				
1151000	660.152702	338.491182	1813.94103	369.127592				
1152000	652.993852	352.219364	1833.346847	374.83113				
1153000	746.772782	357.891588	1756.039927	371.264333				
1154000	697.48916	347.625229	1723.321749	383.443354				
1155000	700.391369	351.842696	1883.33436	376.235469				
1156000	649.89605	340.087022	1818.273323	385.205189				
1157000	659.644145	341.95663	1856.853761	366.830182				
1158000	678.741786	342.970264	1834.879836	372.373728				
1159000	681.345478	329.441246	1807.610374	370.079916				
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1160000	632.16568	339.018221	1743.846928	371.807623				
1161000	650.65856	327.523483	1827.425548	358.426591				
1162000	645.770454	329.982955	1715.622954	364.291987				
1163000	621.507029	335.630415	1658.77925	364.426691				
1164000	674.989997	335.523556	1718.51493	352.981419				
1165000	659.573842	334.971194	1795.124658	358.5903				
1166000	655.446132	332.556702	1773.305829	365.904596				
1167000	654.096653	342.375428	1713.138165	374.385008				
1168000	643.738268	333.419067	1812.071988	379.844439				
1169000	672.46865	338.054823	1874.32859	360.10338				
1170000	645.498722	332.946223	1727.488029	363.099305				
1171000	640.327393	335.45002	1688.22482	364.348712				
1172000	639.335614	336.975854	1875.443065	372.873515				
1173000	652.144542	337.70031	1791.830001	366.684308				
1174000	628.684283	340.586807	1849.765624	369.50844				
1175000	636.799418	339.790608	1710.160532	373.061706				
1176000	686.441955	336.359232	1829.515883	370.071069				
1177000	669.817521	335.740663	1881.748784	383.637799				
1178000	694.360122	338.885533	1904.715715	367.897364				
1179000	632.64751	342.238303	1842.815199	389.783377				
1180000	648.429316	349.198176	1861.665638	379.656951				
1181000	623.003002	346.205778	1958.833004	376.914212				
1182000	663.267653	355.205946	1848.264088	365.328869				
1183000	668.041904	346.153193	1956.455223	377.330686				
1184000	688.969335	345.830652	1773.216935	370.537047				
1185000	673.565647	355.673213	1678.850747	382.472126				
1186000	675.783477	340.244758	1665.82626	376.411623				
1187000	660.031873	334.475114	1823.56159	371.446614				
1188000	644.510619	334.502308	1828.052285	363.256206				
1189000	654.879929	336.880447	1804.06271	351.477744				
1190000	653.580052	336.422673	1873.074775	364.568812				
1191000	665.047694	348.312934	1867.907128	356.582236				
1192000	643.876046	331.870912	1810.952916	365.608957				
1193000	660.702803	333.907385	1764.751141	370.147553				
1194000	636.832266	349.346716	1874.682057	373.37341				
1195000	710.936707	334.429347	1813.149961	373.338448				
1196000	642.508492	340.097656	1890.096285	374.245056				
1197000	657.93126	344.030369	1885.419429	380.92474				
1198000	657.697173	351.432601	1659.836125	368.474684				
1199000	670.055132	354.428375	1958.417521	375.232643				

1200000	665.697705	354.011436	1924.742564	357.914931				
1201000	670.471778	360.516779	1821.427327	363.374182				
1202000	683.062439	330.487802	1839.163483	375.581339				
1203000	686.78025	343.040456	1917.825268	380.446745				
1204000	689.806504	363.488378	1782.876977	395.530765				
1205000	713.598341	336.073518	1900.714841	362.631555				
1206000	652.331597	351.689216	1958.40262	379.024781				
1207000	661.994858	355.544402	1892.736566	372.328037				
1208000	686.514981	349.790271	1951.228985	363.167919				
1209000	650.861167	344.672557	1869.031737	368.824928				
1210000	669.93959	338.196185	1766.539415	371.57506				
1211000	664.33409	341.199518	1756.724804	365.685366				
1212000	644.98619	338.514675	1788.444167	374.172006				
1213000	655.403595	351.40251	1821.425233	384.372607				
1214000	679.594638	349.848144	1913.091437	388.359826				
1215000	691.720813	363.625155	1971.343335	379.475824				
1216000	661.974413	351.71009	1751.300881	395.720105				
1217000	693.269928	356.780904	1960.951762	376.180858				
1218000	688.630474	347.423575	1911.670774	380.481012				
1219000	701.416009	345.676057	1881.230904	386.61494				
1220000	692.341566	360.401665	1969.781621	395.339914				
1221000	906.625716	328.874892	1834.319346	376.327433				
1222000	811.299771	335.767049	1846.864428	364.817828				
1223000	758.380949	339.112855	1806.088425	371.653109				
1224000	804.425392	334.987562	1791.611045	361.700418				
1225000	779.052454	340.035124	1844.59339	368.783181				
1226000	769.722893	340.14483	1887.663988	360.570843				
1227000	743.644926	341.529864	1799.360331	380.63531				
1228000	702.506714	340.122206	1726.744134	367.381215				
1229000	739.297039	344.244396	1828.950708	379.482385				
1230000	782.932328	334.5616	1806.220457	367.53863				
1231000	717.958407	350.585201	1826.222537	382.076485				
1232000	667.811848	340.826915	1783.243311	366.680963				
1233000	732.817133	339.767608	1832.242111	367.425098				
1234000	680.276608	339.311895	1753.398807	368.744786				
1235000	785.763367	345.478125	1824.876845	369.255019				
1236000	742.2514	345.662426	1682.287262	365.367533				
1237000	740.656471	332.319896	1820.622331	377.239728				
1238000	756.816702	339.23868	1897.684475	371.223297				
1239000	749.804833	337.141389	1844.241252	379.768369				

1240000	764.501484	353.45308	1873.493838	372.137803					
1241000	791.179084	352.420156	1912.207941	385.364592					
1242000	830.062982	350.56552	1887.173734	385.532296					
1243000	805.418531	355.352616	1916.627469	385.348331					
1244000	820.273685	349.784449	1619.241375	375.642881					
1245000	805.708949	358.718088	1879.160186	395.283396					
1246000	791.925662	348.784545	1903.786936	374.851497					
1247000	799.187352	363.064121	1859.886569	387.969281					
1248000	758.790849	352.836703	1958.113937	387.094853					
1249000	794.802285	357.997108	1920.956269	380.989217					
1250000	761.43044	346.797202	1968.841887	389.087133					
1251000	825.25287	349.485564	1898.99646	381.453028					
1252000	796.178342	347.043107	1915.870051	387.197374					
1253000	820.519134	366.074238	1928.048257	367.634438					
1254000	797.439039	356.701349	1750.956476	385.501812					
1255000	797.898886	348.279568	1903.721748	384.982669					
1256000	776.053558	353.658066	1919.837609	379.86923					
1257000	798.398377	346.738151	1903.691682	384.349719					
1258000	714.663903	344.64998	1812.486857	373.684641					
1259000	738.403429	336.390685	1866.495871	359.36406					
1260000	765.837336	346.620832	1969.353119	367.863127					
1261000	784.821392	349.487353	1915.010584	381.632954					
1262000	796.210992	351.299823	1697.242583	385.337275					
1263000	782.487156	348.527341	1914.187415	394.996214					
1264000	804.854595	347.334142	1903.353608	384.51219					
1265000	762.941201	348.897278	1911.988094	382.29696					
1266000	763.34773	348.219008	1899.848282	373.293752					
1267000	785.345344	351.382331	1826.506392	366.132486					
1268000	750.728526	343.073315	1809.926322	363.167901					
1269000	759.279183	347.149463	1632.219415	373.679973					
1270000	737.000927	348.02301	1900.591566	370.240263					
1271000	782.659082	335.840999	1843.255159	375.058797					
1272000	770.980582	353.12695	1864.588643	379.714301					
1273000	714.292928	342.684704	1937.415231	374.308719					
1274000	767.580853	351.650147	1795.731964	373.296577					
1275000	741.972728	347.960311	1921.737792	386.948163					
1276000	765.190774	362.413824	1756.274265	361.451995					
1277000	757.101458	344.242617	1736.92343	378.79698					
1278000	759.342048	341.725027	1862.224532	381.8079					
1279000	762.059789	350.877386	1901.233928	373.188112					
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1220000	726 775002	242 554562	1720 057106	262 072007					
1280000 1281000	736.775882 752.363247	342.554563 336.749461	1730.857126 1650.383982	362.972907					
1282000	756.48232	358.126668	1722.421448	359.655371 385.755686					
1283000	800.578061	344.839079	1857.570804	385.995727					
1284000	774.715319	346.813408	1894.216001	384.494568					
1285000	803.855505	337.600321	1796.167813	375.856279					
1286000	775.654812	326.25401	1853.91817	379.108805					
1287000	711.118087	345.682925	1914.358135	375.428045					
1288000	766.170936	341.307329	1818.474451	364.882341					
1289000	757.957079	347.852933	1885.478738	384.829192					
1290000	768.122329	348.632536	1793.143523	382.402716					
1291000	777.91657	358.841766	1840.410344	377.412326					
1292000	758.285384	348.531783	1885.641381	388.314732					
1293000	807.148348	351.596597	1866.253291	372.085474					
1294000	752.869222	336.844517	1856.514655	390.541885					
1295000	780.712601	363.930267	1948.833722	368.369282					
1296000	777.01056	352.590794	1916.907381	374.715277					
1297000	777.01030	337.289178	1886.523503	380.350679					
1298000	789.555001	354.114025	1876.95124	389.094444					
1299000	721.055372	351.701787	1913.099053	385.948617					
1300000	806.04509	352.192902	1917.262747	376.902816					
1301000	773.635731	359.981262	1906.467335	390.082608					
1302000	807.031461	351.902734	1760.008853	384.381817					
1303000	753.596935	364.43638	1973.994174	386.411368					
1304000	808.268133	344.760669	1914.80583	384.225312					
1305000	780.093682	352.794334	1825.958838	367.274983					
1306000	735.52022	352.816113	1954.241405	368.491027					
1307000	777.781284	355.813757	1951.247193	375.271584					
1308000	723.556179	347.680654	1909.692567	371.259518					
1309000	690.369894	341.040216	1751.292396	373.607179					
1310000	690.444667	335.076327	1833.021525	362.71922					
1311000	686.649512	335.07362	1767.568166	369.254584					
1312000	643.495592	341.054368	1809.969732	353.747513					
1313000	674.964672	339.858812	1811.334301	363.297089					
1314000	685.449943	338.600714	1799.233469	353.32373					
1315000	685.846732	332.633917	1772.944455	357.681419					
1316000	672.408367	339.400504	1843.204381	356.521788					
1317000	656.385455	342.401647	1884.279208	376.803227					
1318000	722.556822	332.494361	1772.916093	357.379438					
1319000	669.894756	338.841629	1870.961786	370.543088					
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1320000	627.646399	342.162863	1800.31014	365.447594				
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1322000	710.842881	333.651337	1824.888035	375.950113				
1323000	794.024234	343.466593	1754.116142	368.901518				
1324000	695.36756	344.464426	1839.088128	384.576507				
1325000	693.294041	340.155091	1832.545455	366.509801				
1326000	710.423619	359.350957	1705.400427	369.192732				
1327000	694.797864	340.46191	1854.219495	376.838436				
1328000	724.659825	340.221887	1837.101158	372.472802				
1329000	717.436018	346.707621	1906.970273	388.766776				
1330000	643.16674	355.130515	1854.790796	377.98899				
1331000	720.988734	348.018348	1890.998369	362.65439				
1332000	691.438361	351.748457	1902.824517	374.324277				
1333000	698.539201	334.551825	1844.181209	373.530188				
1334000	702.767344	353.474583	1888.012822	375.546464				
1335000	670.941594	336.483847	1787.919306	384.418579				
1336000	692.716109	337.279963	1756.219394	369.274586				
1337000	667.501751	337.707704	1850.785446	385.229877				
1338000	671.643588	338.750043	1741.310029	373.592015				
1339000	705.390256	353.060233	1789.843731	359.272504				
1340000	707.300554	347.526776	1909.721476	385.97894				
1341000	702.91566	342.763549	1833.627998	371.182508				
1342000	707.901115	335.374067	1856.681343	375.591058				
1343000	668.914645	337.371576	1791.003379	375.203177				
1344000	715.061734	342.123323	1815.909483	375.614146				
1345000	654.798824	346.658062	1856.439914	372.154643				
1346000	689.881399	350.593508	1878.765199	376.866131				
1347000	715.445116	361.331373	1880.119043	364.628294				
1348000	692.306666	343.933704	1911.725929	382.317964				
1349000	713.116318	346.005142	1903.442269	376.915347				
1350000	709.964697	350.520249	1902.389125	385.5158				
1351000	662.13578	343.774126	1890.949197	380.359272				
1352000	707.578521	347.305352	1855.160294	365.835213				
1353000	692.352092	350.377167	1881.215108	381.270784				
1354000	710.137875	337.341737	1849.602972	370.936241				
1355000	711.878013	353.155385	1913.88506	373.359903				
1356000	706.070907	350.103624	1862.670632	380.749785				
1357000	721.965194	337.754928	1834.425831	368.115901				
1358000	710.168961	356.808607	1885.726109	377.88089				
1359000	672.705672	337.850604	1725.223558	379.431729				

4200000	704.004.00	244.050007	4704 70000	250 204025				
1360000	704.26109	344.056687	1794.70903	358.384025				
1361000	692.392885	348.60957	1824.841975	382.393921 385.417958				
1362000 1363000	705.309186 726.456777	345.355613 358.034754	1741.304967 1811.192191	377.959551				
1364000	696.337236	354.812588	1828.648651	382.171958				
1365000		348.718504	1814.199412	365.972053				
	731.124145							
1366000	759.494797	345.721082	1876.188083	383.985931				
1367000	693.184129 694.324959	349.382523	1894.004998	386.173901				
1368000		357.891079	1908.168012	365.628074				
1369000	684.352522	342.054601	1871.123477	387.877813				
1370000	704.645153	344.428974	1883.288362	378.56347				
1371000	712.280685	358.644872	1923.101196	377.783258				
1372000	679.207583	345.967537	1911.784782	387.602046				
1373000	733.060329	353.417467	1614.059833	373.477799				
1374000	697.50725	351.306738	1915.145406	376.99476				
1375000	706.915068	338.705323	1844.278517	384.838752				
1376000	690.138048	353.068657	1920.650337	371.764085				
1377000	660.86843	344.513639	1856.360549	382.303114				
1378000	673.224992	343.695838	1839.329615	378.448328				
1379000	716.863765	356.173095	1910.318906	370.932652				
1380000	678.672949	351.608123	1910.299003	386.232545				
1381000	709.056724	341.93511	1810.186062	375.965641				
1382000	704.798186	358.775035	1967.595871	379.56647				
1383000	699.2162	352.891645	1889.555933	386.50837				
1384000	666.509029	346.952124	1877.959746	357.20941				
1385000	686.811484	356.336093	1902.239977	385.511128				
1386000	702.475694	354.85261	1944.897384	380.603187				
1387000	712.806362	351.785992	1911.30814	378.491943				
1388000	664.382491	353.788042	1896.975642	386.84547				
1389000	725.718221	359.880734	1875.719094	379.459779				
1390000	703.717298	352.458027	1967.041448	353.615155				
1391000	685.661107	351.915892	1962.873322	395.470877				
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1393000	705.503279	360.498756	1968.556801	397.035318				
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1395000	730.468989	359.289858	1948.781277	379.811456				
1396000	788.445323	355.337533	1946.083994	387.814405				
1397000	835.79875	372.357481	1796.558124	366.574109				
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1399000	711.269372	338.670807	1729.474993	366.68892				

1400000	763.241837	343.188734	1849.68166	374.078498				
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1402000	791.139688	341.985835	1869.026815	375.194254				
1403000	784.728282	336.798218	1793.127075	365.600415				
1404000	724.518394	340.557651	1732.77714	357.619628				
1405000	754.403325	334.156078	1752.217707	367.3752				
1406000	744.717195	338.056751	1826.521979	358.857292				
1407000	786.588527	332.648177	1812.058496	358.953845				
1408000	752.926681	329.430626	1793.356432	367.44241				
1409000	697.399082	336.602125	1671.336293	351.921745				
1410000	763.379443	337.462583	1822.668576	365.036352				
1411000	745.326915	331.792259	1754.72633	359.153345				
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1413000	721.780454	334.621853	1835.246073	355.902363				
1414000	748.467334	329.427574	1787.818555	363.947477				
1415000	742.676893	337.049854	1787.821583	364.146754				
1416000	750.180789	338.772839	1788.136173	368.664651				
1417000	750.853387	341.868299	1753.124886	367.655358				
1418000	758.590177	341.949843	1800.977964	365.793603				
1419000	739.004764	339.596849	1829.518282	370.910961				
1420000	780.851326	336.355559	1812.352575	364.773279				
1421000	735.365653	344.930876	1795.196045	366.381589				
1422000	762.25028	345.236549	1784.956653	376.596264				
1423000	789.954311	339.390286	1822.552778	368.571402				
1424000	778.704618	344.849131	1773.323436	367.202333				
1425000	776.286278	333.659813	1816.337095	375.644527				
1426000	785.686187	340.691978	1743.272019	366.082672				
1427000	787.981598	344.762105	1881.086836	375.955697				
1428000	745.1211	344.224785	1715.395671	376.763407				
1429000	794.310315	344.422833	1741.66341	364.538306				
1430000	743.306215	352.219438	1947.735305	374.659793				
1431000	735.546208	339.028989	1800.652322	367.366931				
1432000	756.383704	348.641503	1764.696459	365.556976				
1433000	772.988866	344.014508	1852.194136	382.34653				
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1435000	814.535168	352.796558	1927.030668	363.331428				
1436000	741.300177	341.773505	1904.605276	380.964408				
1437000	788.306082	326.840199	1793.696221	367.389327				
1438000	775.697681	347.574124	1854.502778	357.13106				
1439000	747.092749	342.198876	1742.417636	370.402117				

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1441000	763.685258	341.81887	1681.16443	357.712743				
1442000	751.321848	337.772393	1856.637209	366.430029				
1443000	736.075023	334.750669	1743.206269	365.712814				
1444000	749.86031	343.029295	1868.537273	354.92833				
1445000	732.163832	335.387904	1815.64825	372.127281				
1446000	741.285665	337.881729	1794.514443	370.845682				
1447000	762.57029	344.92721	1624.211186	363.425391				
1448000	689.89734	336.753975	1791.24344	362.31458				
1449000	582.936261	336.392907	1746.869136	362.398402				
1450000	588.6305	331.927031	1595.686145	359.720619				
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1455000	740.818055	332.357049	1755.791693	362.430752				
1456000	741.166074	331.898375	1813.627378	372.30577				
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1458000	682.917414	329.023754	1684.015034	359.452479				
1459000	703.640169	329.569524	1759.147519	354.49258				
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1461000	648.598544	329.405643	1719.337307	355.004827				
1462000	679.902916	322.860464	1724.709466	359.217378				
1463000	672.960203	324.711643	1748.0721	351.843729				
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1466000	757.362456	342.391128	1905.30157	367.927559				
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1472000	779.972511	348.547891	1719.077911	370.944371				
1473000	750.758019	346.093037	1890.330062	383.232573				
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1475000	755.751398	343.850255	1856.394365	368.1569				
1476000	708.951767	343.204732	1861.309722	385.845735				
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1478000	772.776517	336.287108	1783.20004	367.886175				
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1483000	743.950199	337.484952	1818.683519	369.022881				
1484000	749.130978	337.209424	1838.196599	367.032562				
1485000	745.471824	337.425307	1857.113549	366.379353				
1486000	728.824723	335.366597	1763.858927	365.606514				
1487000	750.322685	332.239868	1778.329498	369.657921				
1488000	734.872516	338.879448	1801.374264	370.637629				
1489000	728.12733	338.10733	1801.736397	366.712368				
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1491000	714.379828	333.672302	1854.712908	361.064071				
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1493000	762.250767	341.259326	1685.035017	369.856932				
1494000	786.911355	337.52323	1762.975389	372.352966				
1495000	752.285666	342.352196	1787.02489	385.821984				
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1497000	791.071931	352.833201	1899.71245	382.388079				
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1503000	787.684657	364.439793	1971.362121	373.342037				
1504000	748.697868	354.183284	1751.727561	377.082604				
1505000	778.466929	340.309412	1905.760451	386.382494				
1506000	777.343283	333.690141	1810.855757	371.762629				
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1510000	754.192261	339.861984	1842.6634	362.324318				
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1513000	741.172914	333.069388	1823.913402	370.124201				
1514000	760.75394	334.457913	1839.792238	371.35203				
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1516000	747.350996	331.778396	1813.679161	366.548795				
1517000	735.067872	335.332656	1745.688723	365.375152				
1518000	714.933634	332.034287	1849.115586	368.268724				
1519000	720.929548	332.792555	1777.606134	364.173481				

1520000	694.854919	333.806153	1762.468017	366.291274				
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1526000	745.621065	340.55552	1878.771231	378.333912				
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1534000	803.450121	346.850556	1912.567971	384.357791				
1535000	799.653258	359.523424	1974.512716	368.407398				
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1537000	803.549629	353.806295	1866.303677	380.116048				
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1540000	697.857578	334.868655	1811.615517	369.508185				
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1543000	736.780332	338.336904	1808.822793	364.158926				
1544000	743.48404	330.954987	1858.118687	367.944767				
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1552000	688.02896	355.372293	1972.434221	381.148569				
1553000	764.532393	349.708299	1894.86374	387.367287				
1554000	734.5861	347.944931	1843.114656	385.293587				
1555000	756.654915	357.009204	1973.385317	373.662355				
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4500000	740 00704	240 522000	4000 404070	202 400470				
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1573000	786.837159	340.811765	1905.087191	375.102003				
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1575000	826.223441	351.11021	1904.174686	385.062791				
1576000	817.23537	353.211648	1916.859851	372.302842				
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1579000	833.466614	342.839103	1813.312643	372.986957				
1580000	812.279612	350.615186	1948.699845	381.471035				
1581000	785.813019	354.61327	1779.119143	377.669396				
1582000	834.619731	351.320483	1845.076537	380.255098				
1583000	822.287684	354.047537	1916.100684	384.493006				
1584000	798.439413	336.687454	1835.717221	375.639495				
1585000	813.112815	350.002043	1894.781641	381.173722				
1586000	816.718738	354.389729	1952.418106	379.693803				
1587000	809.350317	354.878982	1953.257211	379.501922				
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1590000	805.949634	346.041922	1879.977063	386.8856				
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1594000	810.966463	348.630042	1895.608349	379.582735				
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1597000	786.200676	343.857853	1851.321589	376.873067				
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1619000	753.328792	333.846992	1791.287864	362.356549				
1620000	748.97259	339.264458	1791.853046	366.505556				
1621000	753.414883	334.865465	1775.127192	367.452545				
1622000	826.474916	336.297813	1779.445334	367.373101				
1623000	763.727328	329.086235	1807.313441	366.19656				
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1627000	772.412298	353.380145	1867.429702	378.713817				
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1630000	756.23207	334.890953	1800.498171	367.510453				
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1632000	723.624935	338.821325	1829.604628	372.172447				
1633000	763.42801	340.140376	1880.186195	369.284402				
1634000	790.362032	347.879553	1862.012765	376.21562				
1635000	773.677003	348.117578	1849.748385	378.01257				
1636000	751.992711	336.781224	1853.872684	363.701763				
1637000	781.481981	333.728629	1825.391351	371.359031				
1638000	753.639833	331.523179	1835.705483	368.343838				
1639000	753.803395	338.932649	1762.073812	370.714337				

1640000	740.783234	337.018134	1803.404701	369.214698					
1641000	748.539187	336.086608	1737.107192	373.860137					
1642000	770.236053	348.614407	1855.530764	369.267167					
1643000	796.147864	349.427263	1883.515503	384.040556					
1644000	821.286302	346.964347	1888.793271	388.544553					
1645000	797.551397	357.466797	1882.954634	363.152214					
1646000	768.052023	349.001952	1907.636109	386.437227					
1647000	775.083261	354.983214	1851.350185	391.122957					
1648000	794.854283	348.580929	1893.16268	378.374606					
1649000	780.971758	361.742674	1960.189947	373.937572					
1650000	794.181393	350.514193	1906.057913	385.450347					
1651000	773.440858	348.115485	1898.200791	390.298471					
1652000	787.00958	352.328804	1840.119056	384.957394					
1653000	764.609098	355.734262	1890.752686	379.370419					
1654000	786.13251	354.029656	1851.437263	381.107572					
1655000	803.115798	332.722438	1854.763602	381.150661					
1656000	788.595085	353.101999	1887.81414	378.307276					
1657000	805.469218	351.99255	1955.09074	379.822334					
1658000	763.589054	348.531522	1813.815853	382.394625					
1659000	797.576597	349.493308	1897.337901	383.699679					
1660000	790.440057	359.574238	1955.639952	377.999776					
1661000	802.336	352.776614	1927.584993	389.266372					
1662000	758.893367	352.181992	1934.512906	386.605941					
1663000	803.949066	353.132013	1897.608988	385.434337					
1664000	767.983222	364.654144	1960.821273	365.112532					
1665000	858.358036	347.784674	1867.622044	377.758659					
1666000	795.183081	333.93064	1778.34138	377.995661					
1667000	745.689137	345.714703	1816.088115	373.708832					
1668000	736.417015	341.009732	1725.097269	364.910089					
1669000	753.439002	336.758966	1836.59075	372.330885					
1670000	718.873531	338.265528	1814.5113	364.850759					
1671000	754.964194	334.518529	1779.547039	369.122699					
1672000	750.031065	336.911065	1811.847443	367.702685					
1673000	736.947267	338.910947	1786.730771	369.707171					
1674000	742.23546	339.024722	1790.860833	375.819917					
1675000	718.768437	332.330324	1817.67672	367.445593					
1676000	745.52109	331.812263	1737.976238	370.160063					
1677000	725.136823	337.562153	1836.494004	363.246553					
1678000	747.504679	338.456232	1809.599511	371.843678					
1679000	785.771683	337.858436	1882.470589	368.188593					
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1680000	756.530819	349.901007	1821.523249	378.01067				
1681000	777.674406	356.878769	1939.408761	377.216907				
1682000	793.765028	351.707212	1850.321926	387.202698				
1683000	758.418992	354.532465	1877.445105	388.707303				
1684000	783.676083	354.926748	1774.276988	383.231135				
1685000	750.037612	338.849168	1882.41866	365.068195				
1686000	745.874795	338.320178	1824.134406	379.102758				
1687000	688.479257	339.175925	1736.407739	364.036398				
1688000	719.251264	335.917591	1837.386902	372.06604				
1689000	765.545816	352.058878	1888.718794	362.698295				
1690000	726.423059	341.872112	1795.65643	372.595409				
1691000	721.097671	350.287438	1858.043692	368.125352				
1692000	749.550136	331.493661	1811.216053	370.905652				
1693000	742.279505	342.240688	1769.672851	360.622956				
1694000	751.640499	340.583705	1865.080066	369.291917				
1695000	744.883377	333.749914	1825.02973	366.732614				
1696000	719.521214	334.27776	1734.01481	354.671034				
1697000	725.486198	331.460591	1688.325394	364.431017				
1698000	750.514155	330.276172	1764.351982	365.059859				
1699000	724.291694	333.06052	1802.052161	360.07549				
1700000	745.729492	332.583456	1808.11054	363.173289				
1701000	733.035463	340.080496	1755.822032	373.735183				
1702000	735.131193	334.630831	1825.829591	369.380324				
1703000	772.176964	334.149839	1813.164226	363.65135				
1704000	747.035531	336.325724	1822.206532	363.464172				
1705000	738.694829	330.466192	1769.428432	365.012728				
1706000	742.05531	339.010534	1784.798866	364.366028				
1707000	768.927925	338.42484	1787.415838	361.557174				
1708000	746.945852	340.228945	1878.59316	360.628947				
1709000	749.350074	344.866275	1887.069551	364.109809				
1710000	685.484759	338.189216	1720.770302	379.06262				
1711000	782.620431	342.774009	1896.281916	373.377385				
1712000	751.214579	347.890689	1827.753456	364.109985				
1713000	757.493681	350.01371	1901.345359	379.653498				
1714000	753.449315	346.813113	1828.340778	368.980732				
1715000	714.48896	340.381175	1925.177385	384.614436				
1716000	753.750967	348.110587	1675.542348	367.259618				
1717000	752.497221	353.32555	1888.803706	375.589114				
1718000	782.788495	348.418064	1816.743658	377.086652				
1719000	738.96549	338.40368	1924.22429	369.922762				
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1720000	746.203904	336.821393	1818.975933	367.334011				
1721000	743.026733	351.332255	1709.342287	375.003786				
1722000	778.785554	345.43423	1765.038704	360.076432				
1723000	738.857426	341.083768	1832.349098	366.230917				
1724000	715.27642	334.233087	1843.992263	365.094508				
1725000	760.056539	336.075973	1742.241227	371.061824				
1726000	763.652275	336.846871	1679.689285	371.607867				
1727000	749.683112	337.746067	1787.645886	365.226155				
1728000	743.204709	339.347055	1865.754221	366.05586				
1729000	741.994165	339.361764	1748.207552	375.766392				
1730000	739.462552	332.975081	1790.028612	371.575544				
1731000	721.464334	338.735821	1875.776143	370.875775				
1732000	776.714355	348.340045	1881.821197	369.857786				
1733000	734.039305	341.758445	1872.928347	369.349176				
1734000	736.2157	338.441246	1795.674229	380.319455				
1735000	764.817512	351.80802	1894.580523	362.667149				
1736000	749.104399	336.778066	1871.387391	365.135684				
1737000	742.830848	348.672865	1778.397531	382.399412				
1738000	668.706388	336.259774	1734.854712	361.006406				
1739000	624.221293	337.080242	1745.661449	364.643389				
1740000	655.320335	337.364058	1895.305086	365.883815				
1741000	739.763455	345.056945	1870.423989	362.874575				
1742000	748.035977	341.83385	1881.471598	374.356132				
1743000	732.581952	336.76461	1806.2457	374.358484				
1744000	743.471287	339.889193	1783.001369	382.781421				
1745000	916.552251	338.644653	1825.014099	372.403393				
1746000	819.681367	350.089648	1887.796141	362.234652				
1747000	786.232515	335.842896	1793.266276	365.888778				
1748000	850.063074	341.154915	1822.819436	366.030525				
1749000	844.719009	338.174507	1755.313871	366.58213				
1750000	746.045637	340.956471	1891.613783	364.168334				
1751000	857.544727	346.157914	1841.975147	373.983				
1752000	873.474784	336.120073	1893.444055	374.412336				
1753000	825.082119	346.455628	1878.482646	380.083041				
1754000	872.112683	340.231656	1847.017661	382.43661				
1755000	854.413326	351.038404	1903.101237	373.838704				
1756000	882.761615	347.651934	1892.98797	380.640486				
1757000	827.516307	343.735119	1905.257611	358.260327				
1758000	846.854257	347.438177	1866.691861	375.824521				
1759000	856.386556	361.395187	1808.851959	370.681477				

1760000	882.900328	349.660978	1782.751482	383.055872				
1761000	851.316447	352.548741	1880.554355	389.609959				
1762000	908.105589	346.046245	1891.60725	366.818383				
1763000	859.456237	352.788672	1893.152327	373.61146				
1764000	822.90551	345.575604	1770.002077	369.63859				
1765000	805.953738	336.710935	1690.009223	357.215645				
1766000	813.2586	350.975866	1654.400738	365.88653				
1767000	843.710203	331.820767	1787.461064	368.942284				
1768000	866.643302	340.32108	1726.845806	362.082655				
1769000	832.784107	335.503008	1806.067739	367.52691				
1770000	829.259264	343.320468	1846.858879	365.790526				
1771000	838.554767	339.52941	1801.127447	370.754795				
1772000	868.304816	332.737523	1818.204202	372.728005				
1773000	814.06977	341.964942	1735.270019	372.126566				
1774000	838.682654	342.484266	1791.577162	369.425943				
1775000	863.158078	336.700464	1712.409709	361.973123				
1776000	788.481073	339.230131	1849.019631	362.04696				
1777000	805.857683	332.711286	1732.004262	365.859634				
1778000	803.559162	328.195662	1758.706982	363.278101				
1779000	821.411177	329.671674	1817.899408	364.470087				
1780000	818.824121	333.720862	1686.08826	365.533554				
1781000	770.698733	335.21431	1814.673063	366.665438				
1782000	798.938693	336.840418	1820.025805	367.673077				
1783000	777.544617	339.385227	1769.593559	377.056044				
1784000	870.416289	333.14062	1848.045879	368.680355				
1785000	823.987881	342.552966	1798.504979	375.419981				
1786000	792.205337	341.939448	1744.593805	368.151628				
1787000	842.532276	342.492139	1809.72288	377.844245				
1788000	783.353649	346.799956	1731.854992	375.093538				
1789000	839.666816	342.600331	1790.502234	364.215288				
1790000	830.347483	336.476159	1824.497597	372.546061				
1791000	785.112411	340.423687	1842.029752	358.243849				
1792000	821.442961	332.652497	1750.078619	368.279086				
1793000	874.01807	336.798052	1735.482626	367.436857				
1794000	810.766839	341.034685	1794.364261	359.021876				
1795000	828.711173	338.601942	1871.294549	372.625189				
1796000	785.043263	329.960546	1835.014236	369.25496				
1797000	796.611056	341.293817	1751.907645	381.038571				
1798000	862.662498	338.960109	1732.017076	369.727045				
1799000	845.735735	348.189347	1824.771246	376.48672				

1800000	834.458308	334.970159	1834.40051	373.226242				
1801000	859.644532	350.229594	1906.717989	390.786635				
1802000	887.541758	335.674986	1828.099788	384.819079				
1803000	879.010086	354.012326	1818.146977	379.477407				
1804000	865.531273	358.018838	1901.507403	369.201021				
1805000	838.574229	352.176018	1918.325057	396.054985				
1806000	790.387209	343.067966	1907.461698	380.579088				
1807000	837.560534	345.337259	1817.728229	369.206427				
1808000	812.411197	345.798198	1709.569805	364.792739				
1809000	801.645299	343.668595	1907.328508	372.950858				
1810000	832.689647	348.578675	1910.389032	375.349454				
1811000	822.355352	339.031915	1810.31751	377.554381				
1812000	858.271927	340.004578	1902.074638	382.733239				
1813000	844.933891	355.210973	1733.591127	362.819433				
1814000	834.817505	354.559956	1898.581821	370.385117				
1815000	831.244156	359.387722	1842.18326	374.676261				
1816000	790.615704	349.007203	1798.204968	381.0523				
1817000	855.449713	343.012633	1852.76957	389.626542				
1818000	887.697478	359.684688	1823.362516	369.170712				
1819000	728.561411	353.061356	1966.507739	370.340359				
1820000	861.6131	357.953802	1864.639468	390.818765				
1821000	813.850748	344.339268	1911.381592	389.924822				
1822000	848.171286	342.495817	1852.137987	377.87134				
1823000	844.423238	348.107967	1809.036061	367.145271				
1824000	817.314521	342.511992	1850.431557	374.971399				
1825000	819.70674	353.173902	1952.005277	385.701038				
1826000	843.078834	342.12497	1777.365943	370.652897				
1827000	857.874557	334.552089	1835.284475	372.361218				
1828000	852.574562	348.394536	1696.387477	368.735133				
1829000	825.720588	347.816429	1910.226662	375.772012				
1830000	785.034415	343.100704	1896.864478	381.561768				
1831000	798.839133	349.897104	1899.507631	372.058206				
1832000	744.798403	342.745104	1850.454581	378.395048				
1833000	806.655679	345.085311	1809.946701	377.651596				
1834000	803.028211	343.196779	1848.264917	364.750395				
1835000	926.227846	361.319977	1894.797921	363.383678				
1836000	775.538273	350.782669	1891.960406	388.847037				
1837000	811.938726	338.787623	1692.933087	373.484359				
1838000	815.008936	350.245076	1843.09246	380.56651				
1839000	819.500092	356.018632	1861.34545	381.645092				

1840000	773.704802	345.201641	1897.588002	380.790762				
1841000	788.139128	354.382281	1883.774864	382.585601				
1842000	743.460814	347.429372	1902.102645	392.262923				
1843000	780.057283	351.883829	1816.060556	395.861221				
1844000	801.445731	365.038714	1726.328283	372.804969				
1845000	826.246053	360.077918	1960.621781	381.55073				
1846000	806.605602	355.153877	1961.073854	387.698165				
1847000	744.674887	360.486678	1958.329054	382.238157				
1848000	795.832389	349.914509	1905.970076	390.213908				
1849000	824.421057	348.123007	1773.182275	371.18653				
1850000	804.35692	357.287566	1962.100711	364.568944				
1851000	749.965967	341.074992	1843.197751	366.8468				
1852000	714.13533	342.606969	1895.868495	369.160654				
1853000	722.837892	333.504135	1851.374491	370.999864				
1854000	741.931198	340.990539	1889.621247	378.032364				
1855000	796.746013	344.520691	1881.006807	361.835503				
1856000	757.787017	342.786939	1809.591222	367.762087				
1857000	799.63657	348.67366	1891.420068	367.59808				
1858000	757.391084	353.615067	1769.028484	381.040038				
1859000	780.808982	351.080758	1905.781218	373.296546				
1860000	773.129027	347.997629	1864.381295	384.790195				
1861000	819.120499	338.565729	1842.581558	367.420955				
1862000	793.937761	349.166857	1815.768709	374.401626				
1863000	791.213832	347.402999	1907.419999	372.314584				
1864000	787.803916	340.550358	1816.794233	369.992203				
1865000	747.090453	342.997905	1957.923023	371.970979				
1866000	788.928283	348.375981	1961.493334	386.18197				
1867000	788.155796	346.234574	1870.921457	383.4763				
1868000	801.636231	361.092827	1796.487231	378.414568				
1869000	818.381129	360.577062	1817.90947	371.009416				
1870000	775.87727	354.436253	1918.31075	393.2322				
1871000	739.537968	343.233413	1900.885729	391.782165				
1872000	793.967208	341.271729	1890.086237	386.825612				
1873000	794.452323	348.848363	1811.762418	371.307984				
1874000	764.42277	352.456049	1921.493554	366.371263				
1875000	804.473127	354.644941	1865.979845	372.76668				
1876000	756.290901	338.910544	1795.827097	367.708166				
1877000	714.543762	336.013324	1747.146806	368.391138				
1878000	903.793186	323.968773	1761.942614	367.912109				
1879000	743.483245	331.999563	1818.850606	361.010553				

1880000	765.371343	331.890082	1777.048471	362.339301				
1881000	737.51286	339.00535	1677.315223	369.117738				
1882000	769.26001	337.041023	1813.666499	363.68738				
1883000	722.636522	333.987237	1808.189769	364.288013				
1884000	735.876274	336.150467	1827.91411	376.151665				
1885000	743.531963	338.837724	1901.838881	379.816262				
1886000	783.670403	339.374964	1890.158345	379.453651				
1887000	797.478834	344.274588	1901.995328	384.66525				
1888000	794.09376	360.381133	1773.892581	376.382403				
1889000	801.637394	362.057036	1900.819295	375.460058				
1890000	785.857558	355.18451	1948.214602	382.4594				
1891000	777.534636	338.647891	1861.438502	382.385748				
1892000	773.042552	350.862747	1948.930188	391.098175				
1893000	817.96145	339.779633	1904.662244	380.621787				
1894000	791.521773	354.77898	1878.599244	383.944005				
1895000	806.019757	359.203641	1960.465828	370.923294				
1896000	770.595445	358.022064	1963.816476	380.48528				
1897000	773.380069	349.773293	1944.665705	379.229877				
1898000	756.263581	349.501813	1959.385599	390.581271				
1899000	782.354629	350.524476	1908.694259	378.434306				
1900000	792.878118	335.285755	1786.003	385.737537				
1901000	796.524622	346.708829	1792.195798	378.554726				
1902000	797.044814	361.061064	1962.184109	380.930636				
1903000	799.93476	357.018365	1962.806729	382.239809				
1904000	755.466218	353.159807	1960.749985	390.644876				
1905000	787.214481	347.943871	1962.970448	371.119175				
1906000	774.134014	339.869672	1732.531961	364.661088				
1907000	700.394306	346.118608	1880.59828	377.947001				
1908000	744.828652	342.610082	1727.536367	363.12182				
1909000	736.028093	330.759336	1721.875208	363.286831				
1910000	735.622056	328.281579	1748.115739	362.230475				
1911000	731.03386	333.030335	1791.530023	363.181907				
1912000	710.602887	330.340458	1788.729693	368.086231				
1913000	709.637906	326.535211	1776.306134	362.809744				
1914000	751.506548	322.27957	1701.059642	357.380591				
1915000	732.015171	330.359579	1783.176861	357.223202				
1916000	693.168671	327.143167	1764.675538	360.309061				
1917000	708.362109	332.948686	1775.603372	363.930863				
1918000	701.794443	334.171142	1774.404529	357.119782				
1919000	671.540439	331.286973	1727.577506	348.954011				
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1920000	819.011298	331.435863	1716.527926	363.569709				
1921000	787.47194	336.966408	1807.188672	359.828257				
1922000	747.843335	331.738503	1803.150726	370.771192				
1923000	808.033101	337.362621	1745.509602	370.446999				
1924000	860.197747	335.972804	1841.673518	384.085217				
1925000	873.259434	346.234729	1717.386826	369.448154				
1926000	764.744864	340.45538	1781.274978	362.348628				
1927000	826.127051	341.026576	1903.484358	367.10174				
1928000	829.423542	338.792556	1840.012442	371.051158				
1929000	842.597611	334.602301	1806.978366	375.215106				
1930000	798.701221	333.011422	1797.813932	367.540359				
1931000	808.427066	331.111463	1778.454808	367.892913				
1932000	801.748575	336.283589	1799.913359	365.342533				
1933000	821.384378	340.057488	1782.800813	362.440241				
1934000	844.054955	329.097605	1816.347873	368.84619				
1935000	828.274863	337.999355	1815.292358	362.453286				
1936000	856.22951	337.814435	1838.849886	375.409732				
1937000	802.682294	339.113375	1812.998178	368.956106				
1938000	869.092982	339.586003	1840.593933	371.010773				
1939000	857.893995	347.262767	1901.87539	380.567318				
1940000	788.564995	337.243035	1795.877251	366.660644				
1941000	819.752443	332.7989	1788.668082	367.78736				
1942000	847.530855	345.960783	1869.128295	379.684791				
1943000	876.07012	335.829789	1830.364831	373.334358				
1944000	833.8688	350.49307	1694.117648	364.397536				
1945000	871.720796	338.887133	1838.334326	373.979488				
1946000	879.474088	350.43912	1911.043195	370.845874				
1947000	821.332886	339.175148	1803.069941	380.539517				
1948000	840.94232	339.404102	1816.019001	376.860677				
1949000	873.011924	348.850779	1912.888492	374.066106				
1950000	842.623073	342.270453	1845.238428	376.282255				
1951000	878.000266	346.999592	1549.086435	372.122938				
1952000	838.741974	352.838953	1960.160134	369.099839				
1953000	861.150599	345.656559	1906.007386	373.147232				
1954000	845.397042	349.10593	1685.77034	381.640923				
1955000	789.800704	342.585538	1825.594559	378.344673				
1956000	806.495837	338.54548	1815.88454	376.132074				
1957000	792.907669	331.976589	1781.421334	367.391688				
1958000	796.490561	332.020513	1794.244677	362.650281				
1959000	831.516998	344.555089	1815.904885	370.791615				

1960000	770.829604	350.083707	1673.542996	366.802914				
1961000	861.762109	349.812018	1863.939101	370.024715				
1962000	834.75899	338.834062	1782.400023	367.197887				
1963000	885.383239	340.734487	1784.790452	370.763722				
1964000	856.762711	343.282825	1868.259191	370.449451				
1965000	857.204927	339.09285	1904.40009	372.984106				
1966000	841.173877	342.449349	1802.16021	373.62525				
1967000	843.912993	338.541864	1826.517087	379.837888				
1968000	819.487479	350.607399	1815.519926	373.319989				
1969000	830.266744	351.319563	1951.558909	377.048345				
1970000	829.589301	333.489244	1761.19768	369.109265				
1971000	769.060588	345.037353	1718.247511	370.479808				
1972000	747.731024	336.447577	1736.884855	369.813192				
1973000	770.583625	339.07294	1715.167454	355.42678				
1974000	751.813264	334.872775	1817.2746	359.739435				
1975000	817.410386	338.043405	1773.524119	361.658222				
1976000	766.494271	339.237543	1714.588664	361.995526				
1977000	555.130153	327.678761	1613.284911	344.426587				
1978000	760.171035	331.874517	1711.987896	355.923691				
1979000	760.687194	327.185854	1740.413663	351.819908				
1980000	770.568638	329.540401	1784.182418	360.777969				
1981000	782.501049	331.956132	1748.190034	365.267605				
1982000	812.243483	336.75537	1758.584194	359.468429				
1983000	776.567477	332.451936	1777.112611	364.493314				
1984000	766.368476	340.544384	1784.991311	361.195185				
1985000	798.951261	338.511335	1867.421542	361.032236				
1986000	765.561306	338.52115	1764.660409	361.886533				
1987000	788.987685	338.416795	1675.459948	367.534989				
1988000	782.683021	339.785904	1751.407594	368.130764				
1989000	782.457837	331.503204	1808.610955	369.41133				
1990000	831.010819	328.248505	1781.564127	361.20479				
1991000	802.624512	330.563967	1817.151324	365.905677				
1992000	801.32331	334.222412	1604.645084	365.411793				
1993000	790.709854	336.148457	1701.679304	351.911606				
1994000	778.610317	336.867684	1797.320961	369.238951				
1995000	790.258314	341.73856	1851.588883	362.742112				
1996000	795.45776	342.846817	1909.099694	365.66742				
1997000	825.609182	348.58368	1893.890903	380.856406				
1998000	840.128013	353.223706	1849.98458	384.347995				
1999000	839.045896	347.853626	1965.530939	391.164037				
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2000000	877.24839	345.205169	1907.546926	383.491607				
2001000	881.073173	348.680442	1905.300553	391.047456				
2002000	861.71312	353.900516	1769.956891	369.236717				
2003000	849.062323	364.97288	1892.933488	379.116313				
2004000	823.986731	357.930646	1822.780951	379.572916				
2005000	850.825471	364.232347	1867.765895	383.188333				
2006000	874.065315	347.848946	1897.542178	396.918834				
2007000	833.512951	350.146898	1849.334955	392.259184				
2008000	885.196845	346.657791	1907.264031	390.437926				
2009000	815.343556	341.326907	1861.30714	373.706675				
2010000	823.986621	349.016745	1801.553102	376.431775				
2011000	760.427232	341.976211	1883.270912	368.631596				
2012000	853.481926	336.103178	1848.800809	360.790403				
2013000	816.283498	342.771614	1867.007481	368.190735				
2014000	804.144498	342.500406	1870.082219	380.01728				
2015000	785.908409	332.549188	1845.941306	388.896287				
2016000	837.031328	354.744336	1934.729731	378.719496				
2017000	864.378684	349.428104	1912.339567	387.780735				
2018000	881.172683	339.114639	1898.513269	383.751162				
2019000	840.053625	356.063619	1901.570428	383.996969				
2020000	859.278659	359.600423	1854.274239	383.392209				
2021000	854.367717	353.618112	1899.461088	384.271379				
2022000	854.485945	361.377503	1967.869802	381.297634				
2023000	815.360866	343.657031	1678.969144	373.073017				
2024000	797.936405	338.75163	1839.357901	379.108002				
2025000	844.097135	346.884973	1907.183723	391.165343				
2026000	835.830306	351.291935	1902.400997	383.220467				
2027000	872.480159	359.115665	1912.504107	367.720623				
2028000	808.836256	348.354788	1852.90765	370.173642				
2029000	839.02574	359.306844	1966.632193	375.864706				
2030000	808.43287	348.566251	1823.458653	370.584296				
2031000	773.031956	337.2338	1817.391121	373.107458				
2032000	815.92139	341.42504	1905.705108	372.912187				
2033000	812.340543	341.666087	1881.931704	385.983758				
2034000	862.756042	338.303602	1830.081347	369.573726				
2035000	799.325973	332.560029	1825.017181	359.110782				
2036000	780.052122	335.750595	1781.18696	363.212432				
2037000	801.690439	323.572058	1760.516208	354.880522				
2038000	779.41786	332.314052	1786.984125	358.646225				
2039000	771.259958	339.390994	1777.090608	358.916758				
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2040000	724.689939	332.966798	1815.822218	361.481265				
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2042000	760.351787	337.454007	1820.516027	365.084936				
2043000	795.038773	332.407647	1793.612521	367.398004				
2044000	788.847457	331.014612	1861.457984	359.309942				
2045000	792.24537	329.349678	1834.53976	370.74585				
2046000	800.078208	336.622394	1781.517669	364.692881				
2047000	798.572168	332.792931	1832.940099	372.019753				
2048000	793.081295	343.078401	1877.484936	376.620128				
2049000	878.227668	342.789689	1788.427857	375.461975				
2050000	846.790417	336.672689	1847.730765	360.063069				
2051000	795.820603	339.201974	1819.176834	363.135722				
2052000	775.550653	327.015287	1789.223859	369.931359				
2053000	817.920793	347.095598	1821.996364	380.121057				
2054000	829.379581	350.11296	1840.539724	370.256272				
2055000	834.821522	351.942621	1694.909661	361.303308				
2056000	775.104957	345.930463	1909.37525	371.170856				
2057000	785.030008	338.52281	1857.210571	368.305792				
2058000	830.989028	338.925104	1836.409629	373.686582				
2059000	839.163805	346.064845	1913.076274	383.138696				
2060000	812.905466	345.5676	1847.261917	376.557917				
2061000	834.147514	358.844677	1765.077666	384.860438				
2062000	841.888656	353.610609	1873.433322	383.477584				
2063000	809.121144	348.826317	1913.026379	378.656407				
2064000	844.501636	353.957351	1884.678502	377.950611				
2065000	840.286554	352.041303	1874.903531	386.269314				
2066000	838.526775	352.091553	1877.480314	383.752663				
2067000	820.986105	352.690532	1965.408057	378.405235				
2068000	845.980428	349.148865	1868.998396	391.363953				
2069000	837.280638	347.990594	1837.575718	366.582879				
2070000	799.725851	339.784088	1838.27773	374.080859				
2071000	829.293316	338.224662	1789.780707	382.674156				
2072000	827.13019	350.116272	1825.285306	379.49135				
2073000	837.954954	358.972539	1897.802466	367.919415				
2074000	778.439114	343.030648	1820.297815	367.620471				
2075000	782.273198	343.22403	1906.156473	367.720551				
2076000	828.917894	347.306858	1907.681453	371.58326				
2077000	786.706964	339.513448	1864.472507	371.27985				
2078000	806.5643	344.411289	1804.599556	364.387776				
2079000	737.20607	340.004942	1755.522204	361.897786				

2080000	756.199196	330.816793	1781.74788	366.75293				
2081000	725.782037	339.717054	1721.798414	370.064371				
2082000	787.237826	339.453994	1743.765321	369.004671				
2083000	803.101677	336.65245	1784.064018	354.932773				
2084000	823.092078	344.094941	1846.697527	373.05925				
2085000	816.010879	339.598837	1900.754188	367.055816				
2086000	802.864449	335.072358	1846.199048	368.403485				
2087000	772.204772	333.01351	1807.51639	366.010513				
2088000	812.674294	339.133359	1759.081641	370.151665				
2089000	774.651073	337.641481	1812.867628	367.031344				
2090000	785.262612	339.903334	1844.45996	366.60891				
2091000	813.908137	335.169848	1849.378673	363.013774				
2092000	834.359997	338.075002	1806.26356	362.604646				
2093000	786.672942	347.795916	1847.891922	366.355122				
2094000	774.529161	336.877464	1800.071692	368.329891				
2095000	757.770858	349.190353	1913.318888	379.252721				
2096000	898.758461	347.116129	1842.438131	368.910231				
2097000	805.020998	348.374749	1764.745986	364.929779				
2098000	761.560161	344.015918	1778.306691	367.638168				
2099000	834.534376	340.621785	1708.700368	375.051281				
2100000	837.863448	338.414875	1888.727008	373.648859				
2101000	871.04258	342.926908	1922.228871	382.229755				
2102000	846.021645	336.700391	1827.382748	383.357191				
2103000	855.147453	348.453128	1819.504784	385.340991				
2104000	837.330619	344.37054	1869.926368	383.191236				
2105000	911.591633	355.453518	1783.695749	379.825955				
2106000	888.624841	357.232941	1954.557006	371.990493				
2107000	871.987154	354.821506	1882.355885	384.01149				
2108000	891.666345	357.493179	1950.491916	369.65277				
2109000	816.753635	357.299446	1731.15613	379.267638				
2110000	826.120441	346.993189	1885.463872	385.233401				
2111000	870.187485	357.11283	1950.466822	378.682286				
2112000	869.833103	339.199297	1890.640079	381.427721				
2113000	895.994273	346.47671	1893.88508	385.43448				
2114000	848.274779	347.996084	1847.71797	385.118048				
2115000	839.922655	344.764968	1880.772369	378.044938				
2116000	864.32683	350.64328	1881.666651	377.14266				
2117000	855.520491	350.64188	1766.113812	384.58045				
2118000	903.436771	351.155847	1951.295008	375.89588				
2119000	880.075491	359.307532	1793.935338	381.19162				

2120000	879.625344	354.940207	1817.234245	375.210547				
2121000	842.656788	357.06662	1782.002534	376.503484				
2122000	868.879813	352.856801	1885.513273	383.427546				
2123000	856.133309	359.367594	1848.039452	383.08044				
2124000	860.011993	352.079757	1951.841712	379.603429				
2125000	866.316553	334.050533	1866.994435	386.551992				
2126000	871.666573	351.410651	1953.060406	390.904753				
2127000	857.905516	342.59792	1831.960863	382.264508				
2128000	861.031951	350.8474	1883.105856	387.186458				
2129000	869.089558	347.867177	1893.676601	379.316507				
2130000	859.279818	356.695911	1794.645386	386.891604				
2131000	879.234592	356.766706	1953.450851	375.764047				
2132000	867.492195	352.721081	1894.53517	384.657853				
2133000	866.863151	358.377292	1910.367671	380.781275				
2134000	1040.023356	349.681747	1772.735924	365.985569				
2135000	839.716424	345.988518	1835.042163	373.38857				
2136000	846.80853	351.766085	1871.261418	386.789193				
2137000	830.286941	349.020472	1886.078066	386.294342				
2138000	866.810055	351.30822	1891.094861	386.360848				
2139000	838.383296	347.397773	1926.006757	380.915543				
2140000	852.891383	352.124148	1841.363915	385.660007				
2141000	869.671536	346.833769	1882.128308	366.765401				
2142000	836.746532	341.042616	1839.999111	390.543451				
2143000	887.930934	351.220389	1885.902464	379.47257				
2144000	873.840502	346.917314	1893.731957	385.993756				
2145000	859.16675	348.825466	1739.000725	377.431928				
2146000	893.901102	340.504016	1844.636239	381.187661				
2147000	870.927491	354.89322	1896.15734	378.020511				
2148000	886.258535	357.542822	1909.299396	374.77741				
2149000	859.523675	353.081412	1886.810675	380.26097				
2150000	868.960372	351.020752	1944.306041	383.292853				
2151000	859.834574	353.705638	1940.318305	379.526663				
2152000	867.114676	350.292915	1956.619771	380.861565				
2153000	838.95919	352.206797	1889.227888	386.60289				
2154000	841.443393	352.36491	1894.430785	376.196769				
2155000	845.251178	351.735205	1899.917131	388.343426				
2156000	868.559826	337.288125	1713.741573	367.308457				
2157000	815.149615	334.069515	1619.883795	365.885246				
2158000	805.842695	338.941256	1822.738286	370.411375				
2159000	815.627714	346.560138	1938.624878	375.070445				

2160000	802.663355	330.849917	1807.728041	375.479845				
2161000	804.501636	346.986834	1859.035064	369.811727				
2162000	819.400929	338.548419	1825.198034	377.930073				
2163000	836.833681	345.868992	1860.02435	375.264598				
2164000	813.653435	342.706775	1865.139392	377.983937				
2165000	802.830412	336.843193	1825.954871	372.858261				
2166000	779.244607	344.758705	1873.397749	373.368323				
2167000	806.821533	337.261304	1763.064332	372.920885				
2168000	795.532396	339.079437	1807.070251	371.477136				
2169000	821.858637	336.4116	1815.784516	375.571929				
2170000	818.692136	340.152956	1808.16156	373.114183				
2171000	821.724721	340.003733	1843.570773	379.624831				
2172000	851.992237	346.108321	1859.076522	380.506638				
2173000	757.944375	343.491981	1886.310925	372.95738				
2174000	809.403678	345.149545	1819.399107	377.00943				
2175000	838.661243	339.519456	1831.566606	382.180311				
2176000	848.24453	340.496273	1810.042073	381.372144				
2177000	951.49017	345.325886	1806.773944	382.153955				
2178000	810.353776	347.418733	1892.152521	372.971965				
2179000	833.922385	341.751225	1864.07242	379.898074				
2180000	822.428609	351.033754	1664.098005	375.192802				
2181000	846.852493	345.041816	1845.221384	372.50767				
2182000	826.839622	348.376092	1898.603112	381.276893				
2183000	853.112944	356.565402	1952.845444	374.18523				
2184000	842.363153	354.95169	1886.55939	380.137072				
2185000	816.458916	351.873327	1875.763503	366.823939				
2186000	825.619119	349.767275	1953.582309	375.978192				
2187000	813.705372	351.066161	1799.367629	374.242019				
2188000	818.998979	345.774471	1878.92606	355.656061				
2189000	803.125623	346.740858	1880.847579	378.066675				
2190000	806.533585	346.408378	1846.399776	381.220753				
2191000	795.480538	352.962858	1897.406669	381.38354				
2192000	823.192084	351.353504	1896.748355	383.489785				
2193000	793.490842	351.347545	1829.111144	377.433634				
2194000	796.767895	345.589854	1872.764665	383.276095				
2195000	799.235355	342.901616	1878.333617	376.34238				
2196000	840.880581	344.345922	1882.472355	382.584663				
2197000	831.724084	336.81622	1836.133635	381.713275				
2198000	820.458764	341.598898	1874.546926	380.663803				
2199000	847.532098	340.12306	1859.861664	378.934482				

2200000	824.841218	343.073823	1859.658343	389.379428				
2201000	837.440317	341.756017	1889.276874	385.078143				
2202000	876.287469	339.448284	1821.754328	389.741618				
2203000	861.522483	349.284356	1877.975095	376.694591				
2204000	799.26775	344.638864	1872.046793	389.1961				
2205000	835.871906	346.316621	1815.708472	376.179784				
2206000	864.46071	347.465541	1889.763238	382.106139				
2207000	841.721948	353.643392	1880.354263	388.249703				
2208000	855.016601	352.136823	1873.469532	381.550842				
2209000	854.921487	355.979415	1792.824487	383.169144				
2210000	856.871118	352.342391	1699.291521	385.878522				
2211000	830.364838	354.559432	1858.176821	374.880593				
2212000	830.608757	351.491391	1774.503304	382.084652				
2213000	826.122031	358.229791	1916.669478	371.51655				
2214000	812.338446	351.043983	1854.940941	376.635276				
2215000	826.192579	350.406709	1845.948697	378.710033				
2216000	833.653102	352.683835	1882.722376	377.245363				
2217000	811.273074	356.61858	1882.27184	386.342808				
2218000	828.134469	356.868586	1919.644938	381.581616				
2219000	911.675903	359.529051	1938.102979	360.470649				
2220000	844.89546	352.242739	1851.028868	387.574163				
2221000	840.707665	348.939951	1927.513018	384.646625				
2222000	825.978089	351.529549	1902.175778	382.196983				
2223000	844.879964	346.76514	1903.959254	389.816854				
2224000	862.797371	336.02577	1789.041164	367.061087				
2225000	778.470139	340.047163	1876.905371	369.384423				
2226000	835.371726	343.24006	1814.597977	380.077908				
2227000	826.196705	351.593237	1905.024231	373.832529				
2228000	839.65904	352.26945	1762.885558	372.560112				
2229000	847.912817	350.765823	1899.863804	363.413682				
2230000	810.295623	347.844262	1854.315654	377.64165				
2231000	838.864348	354.236966	1942.609846	382.345607				
2232000	840.12674	347.124211	1829.551692	383.899212				
2233000	826.79298	354.178979	1931.328425	384.812901				
2234000	849.786374	351.340339	1905.010421	384.214131				
2235000	740.818327	347.367445	1951.469096	378.674477				
2236000	830.318046	354.195434	1955.064986	388.652123				
2237000	841.653299	350.618825	1924.746461	391.510608				
2238000	815.645526	349.089139	1917.169369	382.821084				
2239000	802.11394	351.117704	1892.479439	387.302364				

2240000	824.857677	356.125583	1868.931187	389.649043				
2241000	858.386525	350.512458	1800.927221	379.920144				
2242000	855.54559	351.702274	1870.156732	386.634851				
2243000	864.18935	352.004645	1957.949905	388.349111				
2244000	876.980093	347.373422	1880.311949	381.678545				
2245000	843.905964	354.947558	1783.528152	382.23				
2246000	853.989474	353.946655	1929.276472	388.592072				
2247000	837.416375	351.219311	1966.613954	379.615381				
2248000	869.322432	356.108037	1829.193372	384.589919				
2249000	841.748007	352.231076	1892.288479	381.720137				
2250000	842.019859	345.570045	1830.606274	379.817158				
2251000	868.22966	351.325869	1904.268834	390.763334				
2252000	843.515826	350.596146	1903.774831	387.09276				
2253000	842.798133	353.316937	1902.60647	380.836922				
2254000	844.883004	350.067622	1902.011791	390.91421				
2255000	841.064537	352.655133	1897.699282	381.519823				
2256000	848.891323	353.708134	1899.456764	387.021468				
2257000	855.889062	354.450378	1809.440359	388.286579				
2258000	825.60049	354.370178	1858.182331	378.948711				
2259000	841.907699	353.610553	1878.284819	390.745067				
2260000	831.10174	356.773792	1725.077588	391.346803				
2261000	834.220684	357.6345	1757.380455	378.599944				
2262000	632.787985	204.420212	1142.163503	246.802263				
2263000	665.449665	245.383765	1437.194961	309.532013				
2264000	659.957295	289.814851	1589.313973	332.501053				
2265000	722.513621	310.884499	1684.920584	341.295283				
2266000	776.434759	325.646205	1740.903471	362.131121				
2267000	791.836988	340.40189	1837.725658	374.784462				
2268000	820.060681	355.625691	1904.672331	387.772447				
2269000	841.702444	356.204465	1848.472509	379.783659				
2270000	977.995953	352.758846	1898.61878	384.681736				
2271000	954.463958	346.569458	1902.277704	386.039873				
2272000	930.371215	361.73085	1798.850224	389.297272				
2273000	895.656244	356.822332	1858.13738	382.159908				
2274000	925.330999	352.408653	1848.134398	380.992272				
2275000	933.144216	363.085605	1858.687466	381.638348				
2276000	906.18082	355.78666	1956.765458	382.703355				
2277000	919.015634	354.168125	1900.788363	380.214613				
2278000	914.604155	357.294213	1960.343911	377.806536				
2279000	911.15572	354.64221	1903.047298	370.931653				

2280000	899.753987	359.938583	1962.33521	385.372412				
2281000	928.969469	351.116029	1896.87045	382.79937				
2282000	900.808438	354.370222	1903.525785	381.222471				
2283000	927.670171	357.538519	1960.96452	378.143598				
2284000	921.854656	351.000081	1907.563356	380.305693				
2285000	916.090517	356.542954	1903.988965	375.239389				
2286000	922.335406	352.850144	1894.2517	384.596102				
2287000	911.764919	351.801448	1894.697251	389.702516				
2288000	900.779954	357.864015	1861.286936	388.151736				
2289000	890.819539	355.604965	1890.460647	390.196106				
2290000	883.543216	357.868473	1944.735534	381.298587				
2291000	890.601067	353.677318	1834.907948	390.790379				
2292000	918.211107	352.424696	1794.453642	386.993964				
2293000	945.007411	349.181312	1885.196229	384.943909				
2294000	939.550917	347.634223	1864.119207	381.935929				
2295000	911.089929	341.600614	1821.979505	390.064322				
2296000	920.809575	350.210767	1911.733848	381.112427				
2297000	927.005855	347.831143	1862.654947	385.969594				
2298000	900.75753	355.348388	1936.134525	383.437694				
2299000	943.520122	351.630347	1908.724933	383.134292				
2300000	936.185525	354.108194	1841.173932	386.444534				
2301000	906.006456	352.721142	1895.858772	379.358105				
2302000	925.167161	347.980406	1930.414506	378.835442				
2303000	915.619117	346.389182	1904.179191	392.574863				
2304000	905.557152	353.739855	1908.275234	388.043151				
2305000	989.855802	342.691563	1850.368232	378.681715				
2306000	899.645449	355.777724	1786.296643	388.084037				
2307000	922.43988	346.651388	1851.123748	380.039539				
2308000	920.064054	352.757191	1905.350002	387.982755				
2309000	897.747042	352.868828	1902.821763	382.998833				
2310000	920.55308	345.014591	1807.385877	378.797506				
2311000	929.492877	351.503259	1890.815437	387.053812				
2312000	900.008021	351.69061	1901.056274	383.983057				
2313000	916.622611	350.824027	1900.989123	381.988948				
2314000	914.773474	354.549891	1815.780655	386.204779				
2315000	918.19352	357.030328	1871.481374	374.603107				
2316000	916.199401	351.846282	1900.681971	385.839748				
2317000	929.624944	358.605447	1898.736774	382.308599				
2318000	909.862389	356.087225	1855.905519	377.647811				
2319000	908.408952	349.402061	1839.747586	380.792867				

2320000	920.898398	355.742941	1741.95753	381.812494				
2321000	895.15916	350.052606	1749.681684	373.596438				
2322000	918.743433	355.745886	1758.432823	384.484637				
2323000	908.867187	356.792778	1750.990066	382.4399				
2324000	898.71616	360.782843	1944.771501	379.187068				
2325000	889.245523	362.618225	1859.283065	371.043479				
2326000	893.472427	361.193977	1828.846402	380.322699				
2327000	903.019509	353.987363	1815.061808	389.983442				
2328000	905.681516	362.775382	1709.367818	373.130022				
2329000	892.788688	358.681715	1873.502761	381.488082				
2330000	914.876799	361.13824	1767.907846	386.344945				
2331000	913.369758	351.062094	1750.132702	382.060498				
2332000	879.228932	355.442074	1886.224727	387.205739				
2333000	902.721242	361.950767	1680.39747	379.945274				
2334000	887.048408	357.301684	1733.532186	380.102931				
2335000	913.144869	358.937987	1895.498372	387.865765				
2336000	888.332499	358.51926	1799.973344	383.422555				
2337000	886.054258	357.440834	1818.088461	381.548342				
2338000	897.522025	357.573985	1899.412383	388.348999				
2339000	867.143849	356.04182	1829.514877	383.845157				
2340000	872.545361	355.221182	1900.669695	371.578736				
2341000	881.093414	355.742908	1903.196336	389.408942				
2342000	881.279398	348.39769	1857.011688	382.38439				
2343000	910.790714	356.812445	1902.68609	382.557907				
2344000	904.584125	363.453678	1820.43124	386.553161				
2345000	882.05081	354.435951	1753.25661	387.218455				
2346000	901.483182	358.453936	1909.467174	388.661682				
2347000	960.446936	363.76261	1775.47604	381.532091				
2348000	879.721338	359.115853	1810.662392	387.478056				
2349000	907.028954	354.347065	1898.728034	385.063535				
2350000	869.272189	350.36573	1904.44546	385.859101				
2351000	891.656019	354.493366	1838.088697	388.943033				
2352000	907.723989	360.860948	1695.202331	382.640175				
2353000	886.640406	358.501576	1773.921177	386.395971				
2354000	905.905858	348.608837	1741.022527	379.587482				
2355000	881.067816	355.228213	1842.009559	371.741461				
2356000	892.140043	346.755437	1839.679282	377.231003				
2357000	848.98358	357.497017	1897.404895	384.703083				
2358000	861.206274	354.519241	1868.920358	384.681016				
2359000	853.635368	354.442575	1890.724311	385.155056				

2360000	845.315198	351.294087	1888.497046	387.297114					
2361000	877.06264	353.454543	1897.110865	387.95547					
2362000	853.95985	354.945646	1899.440624	382.220191					
2363000	853.353557	352.241166	1904.189383	283.510646					
2364000	442.112941	190.419928	1035.482809	220.198274					
2365000	532.890617	215.952685	1190.548106	244.424688					
2366000	583.378784	239.248989	1306.20375	268.514689					
2367000	631.834362	259.377135	1414.369685	289.39763					
2368000	654.078781	278.446424	1517.112361	308.198095					
2369000	723.093829	296.102866	1595.176633	330.439304					
2370000	749.937585	314.886436	1678.398932	346.576504					
2371000	790.986953	328.220786	1792.976615	363.492366					
2372000	816.887109	346.153869	1804.605091	375.716903					
2373000	809.659411	352.553779	1895.328054	387.258557					
2374000	836.2986	359.960941	1954.036515	388.201234					
2375000	822.944881	353.47664	1887.675744	391.004751					
2376000	803.036939	357.310373	1956.951997	385.328957					
2377000	824.880935	356.110524	1953.927742	387.638048					
2378000	849.02858	353.857832	1894.25923	384.083999					
2379000	835.196934	356.926061	1853.255504	388.825047					
2380000	855.311791	351.849122	1911.718749	382.488703					
2381000	856.313416	352.487211	1882.932378	374.950001					
2382000	827.923329	352.060426	1933.945449	380.890978					
2383000	866.922173	350.751798	1836.105088	386.299921					
2384000	836.062635	359.376307	1957.544928	381.553489					
2385000	871.36752	356.376631	1948.960923	370.233132					
2386000	843.684619	351.529115	1901.130086	386.744299					
2387000	842.075704	361.357213	1810.00485	392.349013					
2388000	841.31757	356.692138	1841.217358	383.896105					
2389000	855.989834	351.100323	1885.187429	384.143322					
2390000	987.827812	349.549096	1869.846193	386.700543					
2391000	838.2406	352.216311	1900.975926	384.38265					
2392000	857.48044	356.78291	1891.409979	385.316851					
2393000	840.15233	349.256542	1848.648743	384.731142					
2394000	880.595129	351.423883	1856.11611	385.475217					
2395000	831.241635	349.296296	1839.730653	385.962566					
2396000	859.046157	343.272967	1835.120973	378.427127					
2397000	851.204364	352.729326	1905.241838	383.126391					
2398000	828.939458	353.971851	1930.705541	390.352911					
2399000	850.487551	350.21136	1957.383068	386.228063					
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2400000	837.084225	354.620723	1901.734222	384.530776				
2401000	808.476035	355.768322	1793.387695	386.001381				
2402000	813.941234	349.769184	1929.043017	380.374874				
2403000	839.171388	354.674882	1955.701685	385.737133				
2404000	846.612424	352.279235	1891.720256	369.691339				
2405000	822.555182	355.399426	1901.860819	379.541258				
2406000	828.139676	350.567684	1823.986096	383.658813				
2407000	826.97413	219.607491	1042.622331	241.794118				
2408000	598.732269	257.115001	1512.614116	297.271986				
2409000	704.815655	283.113264	1486.723178	316.428054				
2410000	695.472302	300.32964	1612.864367	329.958221				
2411000	742.72554	315.225661	1721.98788	351.0534				
2412000	773.175057	334.243773	1785.711643	369.760065				
2413000	817.080886	346.73436	1897.015561	385.644376				
2414000	796.170992	355.384442	1893.752186	386.594244				
2415000	816.102255	355.979108	1960.276599	372.999529				
2416000	506.046481	209.968498	1709.859011	332.300762				
2417000	689.092439	285.699595	1552.67932	318.634362				
2418000	725.35198	300.802052	1606.036253	340.207073				
2419000	749.076659	322.656631	1671.520917	352.092278				
2420000	787.524314	327.902705	1851.011896	366.172334				
2421000	791.763567	355.135671	1786.497003	378.878398				
2422000	847.893744	358.413975	1790.808179	372.941622				
2423000	846.137138	355.415182	1742.011234	377.183085				
2424000	820.104469	353.02167	1900.67857	384.218815				
2425000	846.279667	353.563018	1902.108469	367.932323				
2426000	819.448977	344.418958	1904.473312	389.83592				
2427000	849.584958	353.785652	1859.4424	387.96512				
2428000	863.613453	348.733378	1830.949378	385.965052				
2429000	839.276046	349.92467	1870.663164	389.912049				
2430000	844.928791	342.15632	1841.30664	385.852396				
2431000	803.26248	351.435617	1905.353089	389.533955				
2432000	825.94612	354.097956	1867.158434	385.262993				
2433000	867.106718	350.288314	1832.558536	381.793249				
2434000	839.415127	360.209916	1865.264161	384.785511				
2435000	829.95076	357.910754	1961.528264	380.070033				
2436000	838.058881	352.566288	1866.995719	372.236874				
2437000	807.264788	362.351002	1960.369481	374.616238				
2438000	833.897987	357.637789	1727.831768	384.905819				
2439000	815.113316	352.194486	1898.617411	381.065884				

2440000	837.44189	339.538823	1798.464376	372.608795				
2441000	838.496505	353.167271	1914.859729	380.514953				
2442000	837.64878	356.394791	1946.114458	384.32804				
2443000	829.999575	341.128175	1881.826247	391.562384				
2444000	842.306971	347.903773	1957.646277	386.504173				
2445000	939.351327	345.131417	1830.637918	383.147887				
2446000	888.545644	350.10307	1767.931201	381.380701				
2447000	885.918209	358.386298	1604.050574	224.600439				
2448000	617.33532	227.016124	1249.733257	259.70182				
2449000	653.65199	249.827829	1356.262229	280.493439				
2450000	754.306164	268.69076	1452.067832	294.926873				
2451000	764.597544	285.064173	1579.90103	319.528011				
2452000	779.445277	306.165705	1635.463677	338.476511				
2453000	830.867209	321.722808	1743.878114	353.09967				
2454000	882.843056	336.111987	1767.287034	371.210578				
2455000	884.600848	350.026683	1885.421654	383.007211				
2456000	913.179531	354.609417	1878.28183	389.681995				
2457000	940.204956	355.810404	1894.644801	388.962089				
2458000	903.192998	351.703875	1879.867454	383.801336				
2459000	933.638397	350.458832	1906.062651	382.687581				
2460000	926.559953	348.251424	1868.014882	390.574144				
2461000	952.529505	344.641331	1904.876899	383.063458				
2462000	911.00664	355.191304	1926.132573	388.790393				
2463000	901.656477	344.071493	1851.744654	388.21332				
2464000	852.445609	352.491121	1908.72957	386.020723				
2465000	911.500172	359.903193	1877.555932	393.16176				
2466000	858.98533	355.804057	1855.788804	384.298313				
2467000	911.497204	353.413991	1810.599679	372.404734				
2468000	913.774559	354.612527	1958.677309	386.696148				
2469000	929.347739	353.743477	1904.625257	384.612089				
2470000	900.350518	355.5984	1897.921053	380.78741				
2471000	933.180007	350.098781	1960.22745	370.761266				
2472000	895.853741	358.383187	1936.461797	370.783408				
2473000	906.357808	361.659527	1823.841806	383.962032				
2474000	883.794588	356.086196	1874.368807	383.977909				
2475000	1005.833428	356.821409	1853.416129	370.756245				
2476000	896.65507	350.254868	1904.983186	382.880184				
2477000	924.985091	352.844831	1781.893882	374.721247				
2478000	881.776164	351.789356	1911.26279	383.15764				
2479000	937.500945	351.063528	1848.832752	383.808395				
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2480000	895.95311	349.3188	1906.966191	387.332902				
2481000	867.945017	359.236802	1846.123627	392.634239				
2482000	851.87383	348.100684	1747.972257	365.107277				
2483000	905.230761	357.897632	1908.335347	377.807614				
2484000	919.269352	359.46315	1950.16252	374.854789				
2485000	900.533291	356.382714	1960.583213	383.579583				
2486000	912.336433	360.639885	1961.588843	379.742292				
2487000	876.2525	344.668926	1906.791848	378.240021				
2488000	924.885058	355.103905	1803.055339	373.700722				
2489000	856.669459	339.462062	1796.551537	379.831309				
2490000	892.68045	346.497212	1843.575919	366.766695				
2491000	908.405981	350.93399	1845.577533	370.840034				
2492000	908.303946	342.576295	1887.499867	382.316775				
2493000	875.24817	356.799419	1825.98302	380.595347				
2494000	878.389228	341.177077	1799.352697	376.955419				
2495000	858.045856	354.507596	1821.899311	380.36743				
2496000	883.86302	353.306073	1948.532518	387.375651				
2497000	912.233427	353.240319	1905.398525	384.66877				
2498000	919.683095	346.05911	1900.996006	372.319797				
2499000	920.218966	353.279662	1850.024386	384.564424				
2500000	936.653734	350.454532	1906.397414	368.555494				
2501000	880.821443	356.124291	1805.185745	384.177066				
2502000	914.620102	361.14548	1844.647101	386.840616				
2503000	889.592445	354.876949	1879.840418	387.781851				
2504000	941.333568	336.877271	1862.428695	391.66296				
2505000	917.125197	353.636042	1656.55978	374.823362				
2506000	910.214233	345.053019	1889.971393	390.857186				
2507000	896.99159	356.593509	1826.628402	390.732639				
2508000	878.60533	357.905772	1803.204782	374.907731				
2509000	907.64553	351.211329	1908.238739	381.197498				
2510000	905.772913	354.271934	1905.403908	380.840015				
2511000	917.177854	340.777834	1837.2521	376.439758				
2512000	898.8719	360.433059	1947.111742	378.315589				
2513000	930.330708	339.878025	1827.946115	383.663185				
2514000	861.485236	349.980956	1813.024781	380.600516				
2515000	890.097865	348.385528	1897.261225	383.208606				
2516000	900.624531	343.783852	1852.720503	374.127729				
2517000	880.247211	351.691823	1847.853465	383.113595				
2518000	990.0231	342.057567	1897.827831	382.619589				
2519000	872.05327	338.772477	1848.023369	387.223798				
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2520000	867.14332	355.484183	1956.819505	386.083291				
2521000	897.320673	352.057259	1908.599218	380.746463				
2522000	915.919199	338.35345	1873.471576	382.16354				
2523000	922.365891	355.383646	1922.78528	378.926291				
2524000	914.808959	352.766076	1885.735195	382.543816				
2525000	915.772504	361.887162	1832.277988	381.93509				
2526000	869.660719	352.524225	1875.345226	374.618652				
2527000	849.621102	352.006535	1908.206727	379.655056				
2528000	919.31953	352.531372	1898.058913	287.305147				
2529000	505.602916	204.716178	1118.216089	230.574676				
2530000	586.116363	226.53624	1249.89193	253.890852				
2531000	635.66548	250.004815	1363.399586	279.160036				
2532000	683.495816	271.036709	1471.682319	297.679931				
2533000	730.243498	287.908077	1576.88448	321.835272				
2534000	785.644836	307.206514	1687.887379	341.54589				
2535000	815.461537	325.979485	1741.314201	361.595195				
2536000	836.910665	341.57969	1851.815334	370.690648				
2537000	872.705409	354.701302	1877.286024	380.577611				
2538000	901.48233	354.784219	1963.350784	380.36963				
2539000	889.209847	356.483064	1905.57533	377.882545				
2540000	893.508869	362.921224	1812.469368	375.434577				
2541000	876.384591	356.080342	1872.143163	389.191355				
2542000	890.898572	339.425138	1812.233505	379.850131				
2543000	906.672617	351.778341	1962.959277	384.115938				
2544000	911.896594	342.401177	1704.317068	377.374836				
2545000	860.234682	352.260641	1803.511498	388.148611				
2546000	870.544315	355.466994	1897.470979	383.876812				
2547000	878.347948	349.716938	1906.972394	381.233607				
2548000	879.111173	358.241826	1949.463904	377.796424				
2549000	901.201259	358.37416	1963.993199	379.726508				
2550000	907.965422	340.859375	1848.89389	378.953206				
2551000	894.413612	355.355879	1902.535862	387.225711				
2552000	871.262143	345.907214	1852.953066	379.991313				
2553000	903.605185	351.564808	1938.757145	381.772137				
2554000	900.454636	341.811938	1820.236994	375.4884				
2555000	861.795058	350.701114	1907.724378	383.189111				
2556000	890.486222	353.739117	1961.034042	387.194408				
2557000	893.59446	358.228611	1866.933018	379.191254				
2558000	877.697428	341.316602	1847.027436	383.721277				
2559000	910.909234	354.40646	1962.917057	380.172948				

2560000	894.076395	354.611206	1886.835568	383.975099				
2561000	848.00061	344.4932	1841.916004	390.100733				
2562000	871.994477	344.130183	1853.759899	387.582358				
2563000	886.958936	350.593054	1872.842544	382.431317				
2564000	919.256049	349.712633	1942.943839	384.996431				
2565000	881.607199	354.516415	1862.014896	380.511125				
2566000	889.604455	352.414292	1872.638676	373.767413				
2567000	863.477107	349.975364	1906.264081	376.852811				
2568000	875.657041	351.054908	1858.598841	379.544446				
2569000	893.507721	344.890499	1847.671069	391.128731				
2570000	875.591408	347.250512	1839.111385	359.643368				
2571000	844.084384	340.748783	1817.203855	369.481225				
2572000	868.872834	335.243649	1833.584398	371.38885				
2573000	821.529239	348.472167	1894.568346	368.813381				
2574000	828.847234	340.213155	1795.538777	364.746293				
2575000	843.964832	340.045412	1812.919386	367.647584				
2576000	852.551598	338.123681	1822.986331	370.105956				
2577000	833.327943	341.400923	1902.281635	374.185363				
2578000	815.554116	348.337849	1909.045608	377.309779				
2579000	825.202629	342.614798	1908.22044	368.050846				
2580000	822.574244	339.790315	1747.580311	362.567976				
2581000	856.302999	346.538356	1872.07104	370.361442				
2582000	834.464752	344.56437	1878.829336	367.917849				
2583000	873.661983	348.462139	1698.644768	382.538077				
2584000	885.380565	354.800601	1899.572597	365.908591				
2585000	874.129125	351.934345	1908.807025	385.896577				
2586000	909.102415	344.880932	1909.043591	386.402747				
2587000	862.472765	340.66597	1844.072842	384.144898				
2588000	855.70041	356.372317	1905.565528	380.388867				
2589000	884.121064	355.212932	1826.487236	382.862149				
2590000	900.182921	357.849526	1950.238058	381.493865				
2591000	891.669242	359.575648	1811.648674	379.28126				
2592000	866.534035	351.589539	1904.749306	386.418695				
2593000	896.358738	349.488094	1908.283192	386.22777				
2594000	884.262213	335.706879	1906.623938	382.069032				
2595000	854.831777	356.719075	1808.785888	387.294415				
2596000	860.641404	360.77237	1917.861446	376.909119				
2597000	890.022121	351.864121	1905.964126	372.34176				
2598000	903.121294	339.968343	1837.026482	379.812345				
2599000	909.603793	347.445912	1826.143285	376.114106				

2600000	889.925463	355.527842	1909.265814	390.833981				
2601000	871.511817	351.187123	1887.442809	391.069071				
2602000	889.423347	335.175683	1899.544609	390.715976				
2603000	883.861065	358.903099	1950.421965	384.166439				
2604000	877.536778	356.167831	1860.49835	374.28614				
2605000	890.892513	361.466179	1938.708531	375.525863				
2606000	890.73005	358.568867	1907.011594	387.46539				
2607000	907.662174	357.851246	1752.112682	367.133044				
2608000	780.051498	345.042873	1892.974361	393.151091				
2609000	833.394024	352.430025	1963.017911	382.021531				
2610000	876.385048	350.289022	1881.939653	389.291297				
2611000	885.940956	350.151842	1930.596138	359.296829				
2612000	857.826434	360.364785	1811.885747	369.271207				
2613000	901.368611	349.26758	1829.869102	386.716317				
2614000	901.665356	356.934574	1893.245302	389.706791				
2615000	869.527917	347.464255	1845.435111	386.015123				
2616000	932.024557	337.389662	1809.437705	376.935414				
2617000	873.150021	342.816437	1822.866421	383.128973				
2618000	838.199619	345.627671	1903.99862	372.408538				
2619000	816.244863	348.689101	1899.319388	371.886198				
2620000	935.905477	347.424721	1905.658273	364.998586				
2621000	924.138491	348.117687	1822.245862	379.377167				
2622000	901.592023	342.853197	1842.710407	387.312288				
2623000	960.50012	343.490058	1907.35477	388.232256				
2624000	934.922748	351.401871	1814.504275	370.259107				
2625000	863.108948	345.689255	1925.719324	366.009448				
2626000	748.127899	349.000988	1865.141601	367.514567				
2627000	873.363026	352.46265	1860.173314	378.701493				
2628000	940.177118	354.515834	1941.321559	382.11565				
2629000	921.678695	358.75607	1809.594083	383.621731				
2630000	937.574976	345.94507	1882.756536	386.104127				
2631000	930.850968	354.653284	1897.514051	381.079732				
2632000	900.72085	354.054917	1891.334498	390.12914				
2633000	937.441032	350.014384	1940.947421	384.327047				
2634000	917.803293	353.083962	1951.935261	381.946932				
2635000	931.120081	358.034984	1900.814288	381.926181				
2636000	927.949443	358.185072	1880.765466	380.685167				
2637000	933.702518	352.393779	1770.095653	390.412407				
2638000	853.173058	345.409892	1889.518321	391.524664				
2639000	918.165659	342.229263	1836.123702	385.853632				

2640000	930.128338	351.902969	1921.858964	391.447118				
2641000	889.942937	354.583934	1857.064404	380.550128				
2642000	894.316016	357.167288	1928.446037	379.123144				
2643000	903.157772	352.949566	1851.26944	382.850721				
2644000	945.076541	355.778173	1809.397371	381.479929				
2645000	915.735381	353.911823	1843.49719	384.307134				
2646000	1069.229151	348.523615	1887.920597	390.8636				
2647000	905.88545	350.022546	1913.223357	389.778239				
2648000	898.3269	353.946247	1858.84566	384.295213				
2649000	879.817992	355.684767	1852.952906	382.75684				
2650000	912.598231	353.85175	1830.606072	378.394286				
2651000	915.545978	344.917945	1839.5453	380.093591				
2652000	908.951009	345.736658	1826.709214	369.217764				
2653000	874.899294	339.976828	1840.801539	378.95079				
2654000	903.402634	346.717672	1865.609996	376.112892				
2655000	875.834394	350.950335	1832.699083	380.563592				
2656000	896.2802	360.102342	1867.903492	381.576191				
2657000	882.064609	362.446801	1860.43841	381.286017				
2658000	918.999114	355.09447	1897.657849	378.526092				
2659000	901.224262	349.981198	1831.086885	380.279253				
2660000	924.940392	340.160847	1814.192579	377.99071				
2661000	884.208848	343.831944	1914.282447	379.262372				
2662000	833.996479	345.440177	1894.101108	374.402356				
2663000	864.901591	352.730462	1905.69562	376.528969				
2664000	905.374438	338.248088	1825.076302	371.703434				
2665000	875.098632	348.543611	1796.702291	375.64141				
2666000	885.528648	342.657182	1836.768714	383.937971				
2667000	859.541784	343.780682	1886.426785	389.686274				
2668000	859.33952	357.617644	1949.936051	374.323118				
2669000	844.330615	349.033339	1668.404457	362.07824				
2670000	871.805991	345.966465	1925.560845	364.544286				
2671000	866.337516	350.708619	1883.325479	384.350613				
2672000	905.945438	346.418497	1835.727157	392.119398				
2673000	909.367712	348.405488	1886.507483	388.703771				
2674000	903.012599	352.657161	1899.020944	391.515275				
2675000	851.992229	353.91163	1931.64783	382.764357				
2676000	882.925584	363.861039	1768.338414	380.970604				
2677000	912.188017	347.793099	1891.34882	369.967587				
2678000	890.576484	354.81125	1809.454568	387.261161				
2679000	914.919331	349.719363	1895.782225	389.177071				

2680000	886.066114	352.282448	1899.686618	384.260407				
2681000	908.614589	349.001155	1860.612956	386.528787				
2682000	881.483231	354.960795	1894.136015	381.567528				
2683000	857.278608	349.84854	1897.015327	380.312				
2684000	883.170437	355.452528	1897.298465	380.989964				
2685000	914.606105	353.421169	1787.62008	380.481538				
2686000	882.270437	351.557612	1897.155247	372.574365				
2687000	877.312415	353.076211	1892.91471	380.048836				
2688000	866.782494	345.584217	1888.135024	380.474631				
2689000	969.225907	348.04957	1757.348644	377.99897				
2690000	877.492004	343.136098	1837.293648	377.244658				
2691000	869.196154	349.788515	1718.816674	378.879716				
2692000	844.004885	346.782714	1839.119404	379.074897				
2693000	853.912476	349.593158	1809.240353	373.57715				
2694000	872.159936	346.155521	1770.759597	374.89297				
2695000	857.425288	345.419114	1845.23068	374.505292				
2696000	885.831267	339.387677	1901.037461	375.953375				
2697000	850.928766	344.016994	1760.224415	378.475374				
2698000	874.372333	347.524787	1836.963688	377.274115				
2699000	894.284268	347.632505	1887.142048	386.915185				
2700000	875.324316	345.054626	1797.615161	380.301348				
2701000	891.130038	354.810467	1957.355591	374.668628				
2702000	878.290176	355.674201	1904.698798	376.147148				
2703000	795.371252	349.000751	1874.359002	382.561643				
2704000	903.832734	353.250855	1911.599823	385.213829				
2705000	902.80691	343.048605	1838.506408	388.495144				
2706000	852.532378	354.886642	1919.580504	378.910348				
2707000	889.77183	359.733741	1890.690562	378.720417				
2708000	899.944635	356.620653	1898.582856	384.062158				
2709000	858.073829	348.411128	1872.371829	380.713763				
2710000	885.987182	343.612416	1912.260413	380.624553				
2711000	888.3707	346.710084	1869.2942	380.866803				
2712000	822.42154	341.145464	1792.292347	373.000025				
2713000	886.578999	348.87815	1817.026198	375.470601				
2714000	891.542567	343.025901	1853.151727	379.328365				
2715000	872.535569	344.261272	1802.694286	369.150042				
2716000	865.727732	346.158753	1931.159429	379.999757				
2717000	824.577196	349.818222	1924.621691	379.595293				
2718000	887.169529	350.499107	1881.207105	378.858101				
2719000	913.836541	354.164289	1920.357773	378.649884				

2720000	894.657678	355.413669	1889.728759	386.003677				
2721000	890.984843	351.417721	1902.295688	389.183029				
2722000	896.55938	352.240076	1900.085653	390.193836				
2723000	832.128026	353.347307	1892.866408	385.838494				
2724000	889.201683	357.63684	1793.144584	378.785087				
2725000	880.389763	354.19533	1920.596551	381.617759				
2726000	883.699789	351.943156	1884.477261	383.92944				
2727000	895.663568	355.002687	1898.13945	383.141547				
2728000	897.224096	347.324254	1825.860557	374.287954				
2729000	861.485234	354.936835	1876.075871	381.984016				
2730000	893.61585	346.49397	1900.002783	370.821735				
2731000	905.136642	349.702823	1899.713755	381.782689				
2732000	862.334267	354.493563	1884.542133	384.276238				
2733000	894.905132	353.793415	1901.733344	384.735313				
2734000	870.423708	345.405426	1894.65733	379.437065				
2735000	887.441871	358.083891	1934.595813	385.232049				
2736000	889.804423	355.17149	1892.193387	374.433782				
2737000	880.450745	358.76699	1815.818783	384.677333				
2738000	871.255875	353.278516	1871.711859	382.851925				
2739000	894.992454	355.435108	1826.426171	387.465471				
2740000	858.243538	358.4303	1929.500013	376.537327				
2741000	889.357272	350.434163	1901.134095	375.179411				
2742000	872.946213	357.49208	1832.692908	390.286895				
2743000	867.476585	353.7425	1895.365851	379.952156				
2744000	882.607706	352.872399	1921.905103	386.942441				
2745000	876.209056	353.359892	1843.369342	380.217024				
2746000	883.402457	357.580205	1922.495296	378.690143				
2747000	895.731857	356.959078	1914.635288	376.868738				
2748000	866.688597	352.842158	1886.442737	384.380177				
2749000	901.977461	347.973186	1892.751426	385.326584				
2750000	893.290738	352.138917	1846.558389	387.306869				
2751000	857.693629	356.269943	1860.742586	384.168515				
2752000	877.989734	359.773411	1958.391299	381.246126				
2753000	866.501486	360.868249	1784.229434	388.717781				
2754000	803.24565	346.547785	1858.738563	385.476791				
2755000	884.913969	353.389978	1886.672284	390.503245				
2756000	869.615704	361.061484	1907.244	369.997201				
2757000	884.883323	360.724306	1954.962821	381.11268				
2758000	884.719566	357.146881	1826.917152	384.446933				
2759000	886.674684	354.29677	1889.046752	388.049428				

2760000	894.175324	352.145427	1856.655434	380.083409				
2761000	872.126813	354.32596	1890.177992	383.851436				
2762000	882.496909	347.477504	1881.750832	382.931249				
2763000	900.421466	355.622484	1893.364461	383.873959				
2764000	890.81433	356.676503	1891.066629	382.929809				
2765000	873.810677	356.584215	1916.085836	390.028474				
2766000	878.501021	346.624186	1891.838281	363.866982				
2767000	878.426085	356.990433	1828.557079	382.161576				
2768000	895.227931	357.065827	1893.022353	373.299434				
2769000	889.83925	352.973075	1891.189341	391.39408				
2770000	859.704057	342.353927	1853.970068	384.479466				
2771000	849.739866	357.356153	1946.770475	378.39368				
2772000	860.01436	352.101405	1851.252038	251.582761				
2773000	491.292448	230.337175	1322.690119	294.231461				
2774000	745.514751	282.726223	1514.021066	309.33045				
2775000	738.444147	301.951028	1625.210614	332.861929				
2776000	795.253915	316.729851	1735.581414	352.342973				
2777000	830.447055	333.775001	1721.056257	369.567002				
2778000	798.995647	347.219662	1892.353809	382.473832				
2779000	861.905869	359.905888	1947.608696	380.166499				
2780000	886.985028	359.230678	1901.444954	380.155396				
2781000	881.300458	354.261018	1840.084055	382.465346				
2782000	883.400922	347.96056	1889.823689	390.655498				
2783000	895.256876	352.589742	1768.722522	383.519387				
2784000	875.908276	352.259834	1854.72272	378.052273				
2785000	884.10397	354.48418	1901.953451	383.296318				
2786000	877.569316	355.956912	1887.642581	384.485181				
2787000	862.632506	356.122808	1891.784758	390.696078				
2788000	853.521557	355.902142	1890.838658	386.291368				
2789000	852.012539	353.990074	1886.650775	381.682889				
2790000	882.243567	360.208317	1678.356	387.535901				
2791000	898.3627	361.492769	1873.355523	378.613326				
2792000	909.699607	354.425771	1900.866279	388.873537				
2793000	867.461079	354.2875	1958.037845	390.297045				
2794000	963.243668	353.499282	1901.737224	379.780714				
2795000	967.697596	359.369007	1951.846995	380.236879				
2796000	971.318656	356.287908	1872.464795	380.490991				
2797000	991.548615	354.172352	1898.973522	389.746531				
2798000	970.862667	348.581337	1906.173742	390.791456				
2799000	947.93086	355.714182	1947.58024	387.249408				

2800000	941.921459	359.893934	1937.929502	382.217025				
2801000	946.00222	363.246838	1808.046286	380.905911				
2802000	969.957956	357.188202	1808.543523	393.451959				
2803000	979.397706	341.441441	1901.032369	392.934304				
2804000	930.14554	352.447448	1901.706716	387.241631				
2805000	931.658142	361.952017	1848.596949	377.724667				
2806000	933.691904	353.15143	1896.549504	369.399795				
2807000	939.040953	356.250644	1822.242133	386.246913				
2808000	971.740283	355.103532	1914.991555	381.476076				
2809000	971.627374	352.51824	1938.922222	385.701924				
2810000	919.83612	356.565274	1957.630192	380.928316				
2811000	963.433401	353.370528	1955.702743	381.258467				
2812000	972.991527	354.145333	1874.069463	382.244395				
2813000	962.988118	352.075965	1900.644861	392.703888				
2814000	994.635896	352.986645	1915.16512	390.017438				
2815000	943.353863	354.790491	1910.098483	378.83442				
2816000	932.023513	357.166865	1950.230343	377.543711				
2817000	1043.618202	357.113519	1871.978471	380.24456				
2818000	966.632651	356.260198	1892.212382	388.291563				
2819000	990.083014	348.429687	1883.65318	380.879343				
2820000	957.356229	346.284028	1947.231408	386.242428				
2821000	915.599037	359.479419	1951.001568	376.14206				
2822000	955.549348	361.13469	1895.887426	384.106642				
2823000	947.54819	353.445372	1835.401599	386.591215				
2824000	984.309946	347.421411	1897.682388	384.066203				
2825000	968.557039	353.845164	1814.822566	383.225962				
2826000	900.172868	354.78128	1857.651081	380.601498				
2827000	962.726446	364.189517	1958.872687	374.257195				
2828000	940.904038	350.044882	1838.056079	374.319214				
2829000	918.832857	354.181286	1904.252898	385.099836				
2830000	930.558011	345.330961	1895.036412	389.290521				
2831000	911.862131	359.688648	1874.340401	379.199964				
2832000	960.789802	361.545315	1946.906916	375.875084				
2833000	963.584467	356.893062	1898.264283	384.431932				
2834000	981.480698	353.884482	1910.425713	390.231114				
2835000	957.040849	351.834972	1905.381509	381.42525				
2836000	922.787782	359.14482	1956.238477	380.080969				
2837000	954.66695	353.944895	1852.160146	381.558961				
2838000	979.632752	349.747604	1843.234169	386.246731				
2839000	984.006687	353.774496	1913.258436	389.791017				

201222								
2840000	966.890141	350.15223	1912.25574	392.335153				
2841000	696.794036	195.50104	1111.79378	244.981881				
2842000	744.100996	253.746307	1353.694321	293.927501				
2843000	737.271307	280.126011	1526.110282	307.811571				
2844000	800.268557	296.034758	1609.828325	330.901833				
2845000	843.52131	313.264649	1718.67185	352.840602				
2846000	845.92109	335.060831	1796.39396	366.764393				
2847000	909.486451	350.285796	1888.358045	380.360467				
2848000	968.753614	363.007358	1754.389209	377.533571				
2849000	957.053523	349.681249	1848.368873	388.617398				
2850000	954.524766	349.09495	1871.680228	390.297399				
2851000	909.989263	353.452128	1894.421389	374.379421				
2852000	927.839647	360.061185	1852.276406	377.30123				
2853000	943.860014	356.122734	1906.138868	387.024676				
2854000	923.953211	346.799625	1872.559648	392.642426				
2855000	945.81115	346.888766	1846.290347	384.18705				
2856000	934.014003	358.17396	1950.237529	372.339455				
2857000	952.359998	354.535957	1854.296553	378.190945				
2858000	971.370402	349.857896	1901.96811	388.533979				
2859000	1016.698899	353.705439	1955.829307	391.769148				
2860000	907.107441	348.813753	1960.277647	379.62109				
2861000	944.595401	356.853928	1918.09899	374.924583				
2862000	953.874406	360.227419	1782.689968	386.258066				
2863000	946.553611	352.74177	1907.660688	382.771256				
2864000	950.437536	237.440878	1119.936434	257.673478				
2865000	662.731759	259.801711	1412.308925	288.54887				
2866000	747.783328	279.272069	1465.222436	311.550862				
2867000	804.024891	300.112948	1635.050181	334.0234				
2868000	851.115352	319.312707	1735.707643	353.679917				
2869000	901.746697	337.468588	1842.101888	374.764466				
2870000	927.58742	349.32831	1900.846048	391.186713				
2871000	875.544317	354.333945	1958.645362	378.165107				
2872000	949.003927	361.634143	1880.452462	381.442605				
2873000	933.159411	359.334987	1735.001871	383.061253				
2874000	973.085089	354.434695	1818.237029	386.940424				
2875000	953.885684	338.747161	1859.105052	388.189637				
2876000	904.224799	363.064522	1837.785406	378.224227				
2877000	960.19352	364.463942	1792.112462	380.442379				
2878000	924.292481	353.186037	1802.775817	385.8469				
2879000	899.856223	344.163958	1863.426806	387.568723				

2880000	901.287996	356.998048	1938.903011	385.585941				
2881000	880.270662	358.234017	1917.065142	380.962859				
2882000	897.673337	358.199531	1791.431832	390.63919				
2883000	885.323166	353.526182	1889.984921	391.746979				
2884000	927.592466	351.123595	1923.225683	389.400949				
2885000	847.125427	355.410068	1882.102738	381.445235				
2886000	895.760595	359.471719	1890.00882	384.072874				
2887000	926.771266	355.218588	1831.57038	386.125689				
2888000	923.807622	346.771364	1856.724866	392.753214				
2889000	859.16836	352.996203	1899.053693	380.088619				
2890000	890.684092	358.59167	1868.615022	375.148161				
2891000	907.36725	355.245025	1867.233325	387.214761				
2892000	931.623296	355.21208	1948.643941	388.184064				
2893000	872.125009	353.955016	1955.858315	376.728958				
2894000	900.417105	364.132152	1956.791026	376.356734				
2895000	901.340991	363.871426	1763.344009	389.13236				
2896000	906.211492	270.247017	925.738569	208.998482				
2897000	532.812377	235.782717	1325.140062	282.242091				
2898000	661.683718	272.890889	1443.456409	304.121922				
2899000	745.226784	293.547861	1577.408937	329.802884				
2900000	775.985548	316.534726	1664.654725	347.245006				
2901000	824.219847	327.076561	1743.123346	367.987451				
2902000	927.534972	348.633984	1849.992506	378.653297				
2903000	901.044908	361.468031	1759.678688	386.847247				
2904000	902.02723	352.518009	1900.128119	391.771767				
2905000	885.537631	350.857572	1869.712275	389.341818				
2906000	885.253912	358.568706	1892.453176	382.318317				
2907000	909.280859	360.172035	1828.380075	386.766492				
2908000	912.986829	352.225354	1819.477546	389.411333				
2909000	921.600004	348.720218	1956.72997	388.252175				
2910000	755.973554	356.788827	1871.030091	380.839656				
2911000	897.264867	355.076818	1823.738296	388.082624				
2912000	922.236347	352.97389	1890.866114	387.777963				
2913000	901.663015	351.341272	1912.490273	385.193393				
2914000	872.06762	360.350155	1957.375686	373.056655				
2915000	904.317332	357.234026	1750.211494	380.434073				
2916000	920.593739	347.457347	1883.301197	379.425459				
2917000	896.607921	358.055048	1956.374916	388.995936				
2918000	882.073593	353.821944	1923.710823	381.140669				
2919000	906.470504	352.373365	1838.589593	387.47131				

2920000	903.39966	351.505612	1922.128768	386.011677				
2921000	871.717816	358.096637	1946.768762	379.328629				
2922000	775.748436	347.766972	1900.83768	374.605683				
2923000	892.085163	353.152054	1855.165104	387.549518				
2924000	900.279567	351.171796	1945.810124	383.151703				
2925000	871.46995	355.591194	1905.182488	380.499437				
2926000	881.43495	363.58047	1958.187416	377.013951				
2927000	896.051038	357.416995	1894.232334	382.071987				
2928000	895.510063	352.538027	1896.825147	386.0478				
2929000	859.150124	355.764904	1901.650457	383.510389				
2930000	867.281124	357.403373	1957.97111	378.339166				
2931000	899.082237	354.357797	1865.542205	390.780878				
2932000	891.602756	349.977685	1925.159113	392.355754				
2933000	847.639845	354.980873	1888.002147	369.816097				
2934000	860.558694	360.602583	1841.848373	384.90021				
2935000	891.340301	356.78438	1858.32062	390.870282				
2936000	880.940422	352.385262	1939.295306	393.892308				
2937000	830.541062	354.334969	1893.621906	380.030552				
2938000	880.460812	358.582041	1904.791536	371.052546				
2939000	894.410286	355.308029	1900.929183	382.84545				
2940000	890.631374	351.862105	1890.00432	387.888741				
2941000	858.603654	355.887217	1936.149853	379.605932				
2942000	905.453929	359.149536	1848.814478	386.225939				
2943000	863.087312	327.603628	1901.961415	393.126183				
2944000	875.775265	350.142638	1927.604817	381.382473				
2945000	944.211375	361.063678	1954.471754	368.996663				
2946000	853.477646	354.476292	1892.411342	390.502543				
2947000	888.996148	353.470264	1839.482523	389.673326				
2948000	851.734368	358.742692	1947.972999	382.848144				
2949000	877.705216	358.376986	1906.43287	372.812241				
2950000	868.591268	345.91539	1844.349416	379.346767				
2951000	888.093054	352.370284	1929.632176	386.6248				
2952000	872.346354	355.415059	1834.490662	382.010465				
2953000	887.83486	361.786434	1765.419774	386.076459				
2954000	909.148267	345.769284	1839.557458	388.868616				
2955000	871.948145	355.013335	1869.011095	383.976423				
2956000	884.110624	357.062271	1871.563624	383.986166				
2957000	907.761375	356.14929	1880.146241	370.762778				
2958000	888.398205	352.972595	1897.693895	384.723236				
2959000	849.080344	359.403553	1833.791213	375.824537				
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2960000	870.434117	360.738402	1831.726242	384.894103				
2961000	903.058596	355.554467	1890.616266	391.320224				
2962000	871.292815	345.576003	1913.489846	389.182104				
2963000	868.429043	361.881461	1902.369837	375.033811				
2964000	883.287714	356.822503	1876.839081	387.513438				
2965000	912.231346	354.308813	1896.268662	392.492109				
2966000	864.147856	348.279405	1957.673081	385.924102				
2967000	853.300724	355.036086	1957.122728	379.360343				
2968000	879.463691	353.965921	1836.605249	380.056217				
2969000	951.731901	257.631878	1619.077744	260.487838				
2970000	698.693161	263.11022	1455.162618	299.342233				
2971000	775.764602	286.426903	1574.929204	320.722599				
2972000	836.442317	306.274074	1667.771222	342.366731				
2973000	876.909927	327.332891	1787.912559	362.554963				
2974000	937.721008	345.779134	1884.78596	384.984815				
2975000	968.860656	350.056297	1947.490425	390.479954				
2976000	919.471194	353.456564	1893.59354	382.53944				
2977000	942.974585	351.989361	1885.749074	380.64157				
2978000	961.476995	356.599089	1843.23583	383.372746				
2979000	952.026677	352.208593	1904.642561	380.64708				
2980000	943.439833	338.046281	1824.927038	378.157952				
2981000	930.082507	356.535276	1954.695139	389.456431				
2982000	951.016282	352.867796	1843.999611	391.717346				
2983000	907.316261	348.513921	1921.852811	387.039886				
2984000	925.719394	356.937329	1937.635911	379.659513				
2985000	967.11423	359.477699	1889.869662	387.000316				
2986000	970.635513	352.430894	1904.252941	393.774252				
2987000	888.22306	353.905466	1880.39149	383.100731				
2988000	942.12312	358.996022	1984.070339	379.321976				
2989000	974.080149	357.335546	1902.956238	381.802298				
2990000	980.397624	353.946599	1904.252402	385.805804				
2991000	938.356474	353.984018	1991.631289	376.101143				
2992000	914.771541	343.477791	1826.926769	383.652111				
2993000	974.963027	354.106476	1898.832156	389.091148				
2994000	973.587298	351.906613	1959.501033	378.349703				
2995000	958.96126	354.017532	1945.326897	377.135823				
2996000	955.242002	354.790795	1885.262039	386.779375				
2997000	972.113605	353.60195	1756.160325	385.348378				
2998000	941.420885	352.032176	1844.866315	388.002015				
2999000	941.923316	355.030356	1841.097169	378.983417				
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3000000	962.009907	353.175352	1903.926595	385.336607				
3001000	974.515179	345.134455	1894.643675	384.288011				
3002000	925.78458	353.548861	1860.566584	383.497203				
3003000	932.965366	359.749333	1850.838336	368.309489				
3004000	925.813493	353.384533	1842.803466	386.776866				
3005000	949.476177	353.323611	1878.63223	389.006785				
3006000	937.91215	351.696426	1956.272177	380.722425				
3007000	955.450339	353.947593	1898.072199	379.174673				
3008000	953.750097	354.841552	1866.079049	389.366767				
3009000	932.298521	349.981838	1920.975075	383.158302				
3010000	919.37845	356.65975	1960.438221	376.70275				
3011000	948.537957	350.26612	1843.022925	383.333754				
3012000	952.098268	348.093926	1887.982221	381.583455				
3013000	930.575313	354.938857	1960.002421	382.26872				
3014000	895.856529	349.428127	1833.816323	380.815491				
3015000	961.648562	353.737515	1823.528419	370.871928				
3016000	881.360055	347.59843	1897.323113	384.885584				
3017000	930.668726	355.967284	1821.489233	376.507246				
3018000	964.776701	354.584015	1873.522929	385.543917				
3019000	975.812521	352.162539	1940.293717	387.023198				
3020000	951.228439	355.242754	1910.153227	371.345231				
3021000	933.151337	344.184781	1898.450203	385.57168				
3022000	967.373395	350.811737	1871.962012	387.804511				
3023000	933.714316	354.701883	1870.727359	379.680332				
3024000	921.207233	357.004393	1928.315635	385.851647				
3025000	965.024636	354.275069	1896.214095	389.368051				
3026000	980.962329	350.016975	1899.973252	383.468722				
3027000	950.51542	342.708861	1888.308458	382.925156				
3028000	928.5649	360.891904	1883.914065	373.624296				
3029000	936.558882	354.916074	1861.916948	393.628392				
3030000	971.940744	355.271276	1900.148755	382.402228				
3031000	939.580131	357.003115	1952.455676	383.430199				
3032000	956.857166	351.78152	1910.786681	384.972707				
3033000	929.140835	357.061206	1919.744183	393.723428				
3034000	874.411308	353.570403	1951.918715	380.876438				
3035000	901.133083	350.998484	1899.862535	381.772291				
3036000	964.034465	348.533896	1758.775484	381.598793				
3037000	879.687332	347.696189	1886.509991	378.292512				
3038000	912.064165	362.362057	1770.024938	369.167222				
3039000	912.943794	347.664254	1878.126344	386.343648				

3040000	919.401458	271.223894	1518.473179	321.991671				
3041000	797.234716	307.913135	1634.556054	338.159793				
3042000	851.692886	323.730223	1725.426843	358.552636				
3043000	880.229235	341.012445	1744.588358	375.81398				
3044000	943.693083	348.731997	1862.024243	382.888458				
3045000	900.400347	346.680198	1952.035694	383.78915				
3046000	916.058542	359.294716	1928.344832	382.545957				
3047000	932.202249	360.414239	1898.550014	383.50223				
3048000	945.441686	347.420149	1906.909296	382.361446				
3049000	904.819999	356.936653	1831.168547	381.780039				
3050000	806.06201	350.897781	1903.405599	378.230491				
3051000	940.756107	353.227657	1959.750291	391.371911				
3052000	932.94646	355.423841	1936.98822	381.979432				
3053000	946.140642	359.228834	1726.85879	381.345855				
3054000	964.136277	349.463064	1827.160435	386.909192				
3055000	924.946707	356.81845	1932.842123	383.998753				
3056000	910.467064	355.99389	1933.578777	380.607263				
3057000	930.174817	352.416955	1887.542705	390.538418				
3058000	940.027592	349.368885	1905.553586	390.309451				
3059000	928.611933	351.526647	1913.450012	383.893587				
3060000	932.46202	359.507137	1849.026392	382.99133				
3061000	930.105078	351.556138	1729.894567	366.99056				
3062000	852.70532	348.454816	1828.391546	381.465225				
3063000	925.725838	362.073472	1744.875605	379.225382				
3064000	947.912164	352.556808	1859.805617	378.890178				
3065000	890.355547	353.667666	1904.62697	383.095214				
3066000	913.780654	355.887996	1888.727694	380.977517				
3067000	936.032965	354.639493	1904.10914	380.104674				
3068000	916.823929	353.868102	1893.796767	385.557479				
3069000	912.629615	358.498888	1922.509522	376.584933				
3070000	925.671865	350.471624	1844.391066	380.681233				
3071000	944.857665	350.315717	1906.72626	386.20478				
3072000	937.419612	353.764092	1864.341257	382.621796				
3073000	879.502692	349.188277	1893.024695	383.061764				
3074000	933.628548	353.243439	1903.7097	392.869307				
3075000	916.148979	353.924895	1920.259585	380.758932				
3076000	921.371047	359.969475	1845.041686	388.362753				
3077000	944.997868	355.746479	1930.744199	386.532392				
3078000	908.345892	353.508712	1960.75309	380.671062				
3079000	920.758269	360.868536	1844.230509	380.431183				

3080000	952.154248	355.328228	1904.526338	388.368367				
3081000	960.701358	354.124132	1905.387405	389.047523				
3082000	932.351572	352.8971	1898.863638	382.321466				
3083000	938.435525	356.841011	1902.907878	380.529339				
3084000	954.108141	349.86403	1686.162696	381.152291				
3085000	922.756737	354.095374	1961.367731	373.865754				
3086000	896.4418	354.224059	1897.277727	384.728545				
3087000	913.228501	352.05987	1928.148211	393.53145				
3088000	885.855967	351.843595	1898.929945	387.191922				
3089000	942.609458	357.516693	1840.532103	384.738594				
3090000	958.078634	349.230162	1879.389422	384.681988				
3091000	884.214271	354.635479	1956.995486	375.40624				
3092000	895.192164	357.549279	1746.219818	386.673955				
3093000	923.326303	351.71816	1893.93475	392.826603				
3094000	899.564262	352.973603	1901.476003	384.207316				
3095000	919.137845	355.758372	1831.707778	372.113132				
3096000	907.34049	353.748887	1855.794689	385.089523				
3097000	910.148077	354.730968	1959.764395	384.645527				
3098000	896.818666	355.701255	1883.201391	381.381305				
3099000	918.359363	351.913791	1904.845024	391.983055				
3100000	910.225889	353.822389	1900.475182	382.668098				
3101000	905.797631	358.425176	1907.428516	375.437319				
3102000	928.333658	355.048603	1879.489689	382.439069				
3103000	958.400538	351.68156	1906.235107	387.307836				
3104000	914.530038	353.84377	1899.379395	383.185608				
3105000	943.367277	352.992295	1849.749137	387.023434				
3106000	946.829689	348.250239	1903.175779	388.582821				
3107000	927.753754	345.102242	1909.998321	383.965587				
3108000	913.923842	356.73154	1896.990022	381.703624				
3109000	940.767362	353.137706	1918.580357	382.431428				
3110000	907.755413	355.347552	1838.971169	383.602013				
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3112000	941.12353	352.092558	1899.826868	390.51809				
3113000	899.842837	355.876402	1935.693681	385.725744				
3114000	910.383369	358.906435	1830.832059	378.880929				
3115000	984.705298	354.410539	1918.479118	380.942178				
3116000	902.772607	354.697603	1819.978644	386.576899				
3117000	909.632119	364.445889	1815.208622	383.143929				
3118000	932.340709	351.034296	1901.196331	371.987326				
3119000	884.183574	356.65475	1869.320195	386.657718				

3120000	900.462266	354.849214	1893.704887	386.186648				
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3122000	902.436549	355.810157	1922.933607	381.668938				
3123000	944.322755	357.547942	1813.973343	384.982122				
3124000	931.478765	349.87728	1901.182336	388.742882				
3125000	906.864835	356.141996	1887.182143	384.82634				
3126000	918.322741	353.122542	1870.149638	387.805442				
3127000	937.440043	358.227079	1895.183675	386.998963				
3128000	918.891114	347.541268	1961.167871	384.627965				
3129000	939.105507	362.957081	1881.336887	371.991877				
3130000	914.476305	350.10892	1901.836092	389.042476				
3131000	941.114657	343.345361	1898.771401	385.916834				
3132000	910.297611	356.802313	1907.12798	383.57773				
3133000	945.795903	356.666916	1902.496013	384.118414				
3134000	933.443734	356.388387	1960.916817	376.735535				
3135000	922.130424	354.059738	1892.216685	385.476713				
3136000	957.766352	354.237727	1904.16858	387.178228				
3137000	938.821012	351.926937	1961.544477	385.330279				
3138000	910.015478	359.623516	1953.736656	377.29302				
3139000	947.497071	356.036734	1919.320079	386.259213				
3140000	972.919076	352.433311	1926.647498	377.993644				
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3142000	955.812677	355.688141	1857.465804	383.576996				
3143000	903.985677	350.066466	1911.760953	385.551687				
3144000	961.070238	357.72761	1950.456908	373.055608				
3145000	1010.687904	355.575072	1892.413432	389.785368				
3146000	999.695898	351.54212	1975.680171	386.835541				
3147000	963.289988	356.748561	1920.901812	379.496985				
3148000	988.195027	356.50313	1919.429097	386.345177				
3149000	991.460968	344.873584	1971.465398	382.912729				
3150000	950.490316	359.761242	1933.783567	376.170652				
3151000	944.129751	352.966888	1837.167809	390.589024				
3152000	980.076951	346.857855	1838.448657	375.122611				
3153000	962.157576	353.372137	1896.625772	379.670379				
3154000	990.022246	354.257793	1821.071885	378.998121				
3155000	948.982063	351.691754	1948.02388	383.662333				
3156000	935.071767	359.970545	1865.21406	380.925207				
3157000	941.244797	356.370297	1895.378926	389.274375				
3158000	977.87004	351.319099	1882.463468	388.159966				
3159000	953.410835	354.39272	1851.515384	370.472009				
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3160000	989.391903	352.911509	1890.601201	391.281263				
3161000	990.759388	350.440001	1946.103816	380.95408				
3162000	962.630044	362.492795	1967.787285	382.02418				
3163000	945.810981	359.56731	1873.961712	374.109361				
3164000	964.681497	358.179488	1808.558066	382.540901				
3165000	943.35433	360.65495	1942.995635	375.897433				
3166000	947.047879	356.030042	1893.892949	385.666132				
3167000	945.159555	351.365822	1963.439235	387.507454				
3168000	957.585724	362.919523	1980.43693	383.140604				
3169000	952.465108	356.212542	1820.596816	389.681471				
3170000	949.527946	358.835074	1872.956805	386.091921				
3171000	940.567189	360.10778	1889.154135	388.677628				
3172000	961.523304	354.346141	1864.122405	383.353236				
3173000	933.045393	352.210624	1949.075869	387.203421				
3174000	948.455309	357.665801	1958.862655	365.145599				
3175000	918.137688	354.183058	1891.892221	389.05223				
3176000	928.138795	355.385671	1896.054881	382.621837				
3177000	943.690182	358.654831	1821.22109	384.104993				
3178000	958.13886	349.56593	1950.150285	381.273405				
3179000	931.529505	358.506124	1821.708642	381.767899				
3180000	966.148055	354.736197	1786.621245	382.890387				
3181000	977.241726	351.762745	1896.392922	388.246565				
3182000	893.219812	352.045671	1890.706238	383.003503				
3183000	937.234168	358.445058	1946.866384	378.138397				
3184000	944.522364	357.05779	1887.34831	393.134955				
3185000	914.044517	357.67552	1906.476692	380.704623				
3186000	844.670503	347.528403	1893.927008	389.113327				
3187000	955.606715	352.16314	1873.220526	382.166644				
3188000	950.226663	356.404407	1954.145014	233.929183				
3189000	615.016114	230.178402	1249.826086	262.17065				
3190000	690.685788	257.967705	1413.35429	291.797659				
3191000	746.357676	283.332275	1519.688805	318.550659				
3192000	806.823217	305.992712	1679.526202	341.399028				
3193000	864.765842	326.265741	1790.29796	361.040547				
3194000	917.838775	342.519813	1845.394742	384.745295				
3195000	939.349758	354.58848	1741.997851	379.341591				
3196000	902.830215	359.966377	1955.576116	380.51542				
3197000	926.157951	355.320843	1807.959318	384.306957				
3198000	954.246022	350.17322	1885.723287	386.217844				
3199000	930.874901	352.922538	1910.585318	384.160022				

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