



# Система координат и ее параметры ( часть 3 )

Ленинградская область г.Приозерск  
2011

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Таблица  
основных пифагоровых  
треугольников от 1 до 9 уровней

2011 г.

# Таблица основных пифагоровых треугольников от 1 до 8 уровней

Программа расчета основных пифагоровых треугольников от 1 до 12 уровней дерева ПТ представлена на сайте <http://fgg-fil1.narod.ru/fmatpt.mcd>.

Программа выполнена в редакторе Mathcad Professional

## Программа расчета дерева ПТ с нулевого уровня

Для работы программы необходимо иметь на компьютере редактор Mathcad.

В программе приняты следующие условия

1.  $X > Y$
2. Все ПТ находятся в секторе  $0^\circ < \alpha < 45^\circ$
3. Введено ограничение на расчет дерева ПТ до определенного уровня в зависимости от заданного значения  $g_{\max}$  ( см. таблицу )
4. Не введена сортировка по углу, которая может быть выполнена в случаи необходимости.

Рекомендуемое максимальное значение  $g_{\max} = 3279$ , при этом

число ПТ в таблице  $M = 9841$ , что и реализовано в данной таблице.

При выборе больших значений  $g_{\max}$  следует соблюдать осторожность в связи с большим объемом таблицы и возможностями памяти компьютера.

В этом случае рекомендуется записать резервную копию файла программы.

Средняя градация лучами ПТ сектора  $0^\circ < \alpha < 45^\circ$  может быть определена по формуле

$$\Delta \alpha = \frac{162000}{265720} = 0.60966 \text{ " .}$$

Где 162000- число секунд в секторе

265720- число ПТ ( с использованием 11 уровня дерева ПТ).

Общее число основных ПТ до 11 уровня можно определить по формуле

$$\sum_{12} = 3^0 + 3^1 + 3^2 + \dots + 3^{11}$$
$$\rightarrow \sum_{12} = 1+3+9+27+81+243+729+2187+6561+19683+59049+177147 = 265720$$

уровень	1	2	3	4	5	6	7	8	9	10	11
$g_{\max}$	0	3	12	39	120	363	1092	3279	9840	29523	88572
число ПТ	4	13	40	121	364	1093	3280	9841	29524	88573	265720

Для практических расчетов значения  $g_{\max}$  можно увеличивать и далее. Предельное значение  $g_{\max}$  зависит от параметров используемой техники.

**Таблица основных пифагоровых треугольников от 1 до 8 уровней может использоваться для исследований свойств системы mп параметров.**

**Автор с благодарностью примет конкретные предложения, замечания и оценки.**

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	<b>X</b>	<b>Y</b>	<b>Z</b>	<b>X/Y</b>	<b><math>\alpha^0</math></b>	<b>уровень</b>
	0	1	2	3	4	5
0	4	3	5	1.3333	36.8699	1
1	21	20	29	1.05	43.6028346	2
2	15	8	17	1.875	28.072497	2
3	12	5	13	2.4	22.619873	2
4	120	119	169	1.0084034	44.7602861	3
5	80	39	89	2.0512821	25.9892429	3
6	77	36	85	2.1388889	25.0576244	3
7	72	65	97	1.1076923	42.0750371	3
8	56	33	65	1.6969697	30.5102483	3
9	35	12	37	2.9166667	18.9246512	3
10	55	48	73	1.1458333	41.1121051	3
11	45	28	53	1.6071429	31.8908032	3
12	24	7	25	3.4285714	16.2602105	3
13	697	696	985	1.0014368	44.9588849	4
14	459	220	509	2.0863636	25.6085413	4
15	456	217	505	2.1013825	25.4487205	4
16	377	336	505	1.1220238	41.708931	4
17	299	180	349	1.6611111	31.0482331	4
18	176	57	185	3.0877193	17.9452596	4
19	360	319	481	1.1285266	41.5445242	4
20	288	175	337	1.6457143	31.2845041	4
21	165	52	173	3.1730769	17.4923308	4
22	403	396	565	1.0176768	44.4980632	4
23	273	136	305	2.0073529	26.4810493	4
24	252	115	277	2.1913043	24.5295562	4
25	275	252	373	1.0912698	42.5010262	4
26	209	120	241	1.7416667	29.862845	4
27	140	51	149	2.745098	20.0159668	4
28	156	133	205	1.1729323	40.4497333	4
29	132	85	157	1.5529412	32.7790924	4
30	63	16	65	3.9375	14.2500378	4
31	304	297	425	1.023569	44.3327075	4
32	208	105	233	1.9809524	26.7850051	4
33	187	84	205	2.2261905	24.1895228	4
34	224	207	305	1.0821256	42.7412598	4
35	168	95	193	1.7684211	29.4871362	4
36	117	44	125	2.6590909	20.6097003	4
37	105	88	137	1.1931818	39.9662273	4
38	91	60	109	1.5166667	33.3985004	4

M3 =

M3 =

	0	1	2	3	4	5
40	4060	4059	5741	1.0002464	44.9929591	5
41	2668	1275	2957	2.092549	25.5424943	5
42	2665	1272	2953	2.0951258	25.5150734	5
43	2156	1917	2885	1.124674	41.6418006	5
44	1716	1037	2005	1.6547734	31.1450983	5
45	999	320	1049	3.121875	17.7613247	5
46	2139	1900	2861	1.1257895	41.6135969	5
47	1705	1032	1993	1.6521318	31.185633	5
48	988	315	1037	3.1365079	17.6836354	5
49	2100	2059	2941	1.0199126	44.4352044	5
50	1428	715	1597	1.9972028	26.5971502	5
51	1305	592	1433	2.2043919	24.4009462	5
52	1476	1357	2005	1.0876934	42.5947233	5
53	1116	637	1285	1.7519623	29.7172395	5
54	759	280	809	2.7107143	20.2493506	5
55	779	660	1021	1.180303	40.2726213	5
56	665	432	793	1.5393519	33.0087346	5
57	308	75	317	4.1066667	13.6855517	5
58	2001	1960	2801	1.0209184	44.4069729	5
59	1363	684	1525	1.9926901	26.6490721	5
60	1240	561	1361	2.2103387	24.3429251	5
61	1425	1312	1937	1.086128	42.6358398	5
62	1075	612	1237	1.7565359	29.6529705	5
63	736	273	785	2.6959707	20.351029	5
64	728	615	953	1.1837398	40.1904768	5
65	624	407	745	1.5331695	33.1141546	5
66	285	68	293	4.1911765	13.4196784	5
67	2332	2325	3293	1.0030108	44.9138941	5
68	1540	741	1709	2.0782726	25.6954189	5
69	1519	720	1681	2.1097222	25.3607761	5
70	1292	1155	1733	1.1186147	41.7955459	5
71	1020	611	1189	1.6693944	30.9224465	5
72	609	200	641	3.045	18.1805603	5
73	1173	1036	1565	1.1322394	41.4511326	5
74	943	576	1105	1.6371528	31.4172869	5
75	532	165	557	3.2242424	17.2313025	5
76	1548	1525	2173	1.015082	44.5711912	5
77	1044	517	1165	2.0193424	26.3451163	5
78	975	448	1073	2.1763393	24.6781834	5

M3 =

	0	1	2	3	4	5
79	1020	931	1381	1.0955961	42.3881281	5
80	780	451	901	1.72949	30.036732	5
81	513	184	545	2.7880435	19.7316209	5
82	629	540	829	1.1648148	40.6462882	5
83	527	336	625	1.5684524	32.520421	5
84	260	69	269	3.7681159	14.8628213	5
85	855	832	1193	1.0276442	44.2189125	5
86	589	300	661	1.9633333	26.9914762	5
87	520	231	569	2.2510823	23.9522735	5
88	663	616	905	1.0762987	42.895488	5
89	493	276	565	1.7862319	29.2417584	5
90	352	135	377	2.6074074	20.9829615	5
91	272	225	353	1.2088889	39.5977669	5
92	240	161	289	1.4906832	33.8550382	5
93	99	20	101	4.95	11.4211904	5
94	1755	1748	2477	1.0040046	44.8855228	5
95	1161	560	1289	2.0732143	25.7500123	5
96	1140	539	1261	2.1150278	25.305122	5
97	987	884	1325	1.1165158	41.8490185	5
98	777	464	905	1.674569	30.8443337	5
99	468	155	493	3.0193548	18.3247006	5
100	868	765	1157	1.1346405	41.3909163	5
101	700	429	821	1.6317016	31.5023586	5
102	391	120	409	3.2583333	17.0615373	5
103	1265	1248	1777	1.0136218	44.6124261	5
104	851	420	949	2.0261905	26.268054	5
105	800	369	881	2.1680217	24.7615227	5
106	817	744	1105	1.0981183	42.3225348	5
107	627	364	725	1.7225275	30.1369871	5
108	408	145	433	2.8137931	19.5648211	5
109	528	455	697	1.1604396	40.752885	5
110	440	279	521	1.5770609	32.3784241	5
111	221	60	229	3.6833333	15.1892922	5
112	572	555	797	1.0306306	44.1358149	5
113	396	203	445	1.9507389	27.1408785	5
114	345	152	377	2.2697368	23.7773246	5
115	460	429	629	1.0722611	43.002884	5
116	340	189	389	1.7989418	29.0689206	5
117	247	96	265	2.5729167	21.2393181	5

M3 =

	0	1	2	3	4	5
119	153	104	185	1.4711538	34.2054702	5
120	60	11	61	5.4545455	10.3888615	5
121	23661	23660	33461	1.0000423	44.9988053	6
122	15543	7424	17225	2.0936153	25.5311407	6
123	15540	7421	17221	2.0940574	25.526436	6
124	12525	11132	16757	1.1251347	41.6301468	6
125	9975	6032	11657	1.6536804	31.1618588	6
126	5796	1853	6085	3.1279007	17.7292531	6
127	12508	11115	16733	1.1253261	41.6253079	6
128	9964	6027	11645	1.6532271	31.1688135	6
129	5785	1848	6073	3.1304113	17.7159239	6
130	11999	11760	16801	1.0203231	44.4236773	6
131	8165	4092	9133	1.9953568	26.6183669	6
132	7448	3375	8177	2.2068148	24.3772751	6
133	8479	7800	11521	1.0870513	42.6115825	6
134	6405	3652	7373	1.7538335	29.6909148	6
135	4368	1615	4657	2.704644	20.2910961	6
136	4416	3737	5785	1.1816965	40.2392807	6
137	3776	2457	4505	1.5368335	33.0516046	6
138	1739	420	1789	4.1404762	13.577954	6
139	11900	11661	16661	1.0204957	44.4188342	6
140	8100	4061	9061	1.9945826	26.6272741	6
141	7383	3344	8105	2.2078349	24.3673219	6
142	8428	7755	11453	1.0867827	42.6186364	6
143	6364	3627	7325	1.7546181	29.6798889	6
144	4345	1608	4633	2.7021144	20.3085404	6
145	4365	3692	5717	1.182286	40.225191	6
146	3735	2432	4457	1.535773	33.0696875	6
147	1716	413	1765	4.1549637	13.5323545	6
148	12141	12100	17141	1.0033884	44.903109	6
149	8023	3864	8905	2.0763458	25.7161895	6
150	7900	3741	8741	2.1117348	25.3396376	6
151	6765	6052	9077	1.1178123	41.8159759	6
152	5335	3192	6217	1.6713659	30.8926438	6
153	3196	1053	3365	3.0351377	18.235732	6
154	6068	5355	8093	1.1331466	41.4283645	6
155	4884	2987	5725	1.6350854	31.4495027	6
156	2745	848	2873	3.2370283	17.1672491	6
157	8319	8200	11681	1.0145122	44.5872743	6

M3 =

	0	1	2	3	4	5
158	5605	2772	6253	2.0220058	26.3150949	6
159	5248	2415	5777	2.1730849	24.7107286	6
160	5439	4960	7361	1.0965726	42.3627141	6
161	4165	2412	4813	1.7267828	30.0756426	6
162	2728	975	2897	2.7979487	19.667135	6
163	3416	2937	4505	1.1630916	40.6882171	6
164	2856	1817	3385	1.5718217	32.4647129	6
165	1419	380	1469	3.7342105	14.9917206	6
166	4260	4141	5941	1.028737	44.1884765	6
167	2940	1501	3301	1.9586942	27.046331	6
168	2583	1144	2825	2.2578671	23.8883629	6
169	3348	3115	4573	1.0747994	42.9353182	6
170	2484	1387	2845	1.7909156	29.1778479	6
171	1785	688	1913	2.5944767	21.078375	6
172	1325	1092	1717	1.21337	39.4936873	6
173	1175	792	1417	1.4835859	33.9816587	6
174	476	93	485	5.1182796	11.0550843	6
175	11564	11523	16325	1.0035581	44.8982651	6
176	7644	3683	8485	2.0754819	25.7255112	6
177	7521	3560	8321	2.1126404	25.3301366	6
178	6460	5781	8669	1.1174537	41.8251103	6
179	5092	3045	5933	1.6722496	30.8793021	6
180	3055	1008	3217	3.030754	18.2603595	6
181	5763	5084	7685	1.1335563	41.41809	6
182	4641	2840	5441	1.6341549	31.4640208	6
183	2604	803	2725	3.2428394	17.1382899	6
184	8036	7923	11285	1.0142623	44.5943317	6
185	5412	2675	6037	2.0231776	26.3019068	6
186	5073	2336	5585	2.171661	24.7249937	6
187	5236	4773	7085	1.097004	42.351494	6
188	4012	2325	4637	1.7255914	30.0927944	6
189	2623	936	2785	2.8023504	19.6386083	6
190	3315	2852	4373	1.1623422	40.7064729	6
191	2769	1760	3281	1.5732955	32.440399	6
192	1380	371	1429	3.7196765	15.0476463	6
193	3977	3864	5545	1.0292443	44.174359	6
194	2747	1404	3085	1.9565527	27.0717224	6
195	2408	1065	2633	2.2610329	23.8586529	6
196	3145	2928	4297	1.074112	42.9535973	6



M3 =

	0	1	2	3	4	5
197	2331	1300	2669	1.7930769	29.1484428	6
198	1680	649	1801	2.5885978	21.1220289	6
199	1224	1007	1585	1.2154916	39.4445696	6
200	1088	735	1313	1.4802721	34.0410634	6
201	437	84	445	5.202381	10.880668	6
202	13575	13568	19193	1.0005159	44.9852399	6
203	8925	4268	9893	2.0911434	25.5574755	6
204	8904	4247	9865	2.0965387	25.5000608	6
205	7239	6440	9689	1.1240683	41.6571265	6
206	5757	3476	6725	1.656214	31.1230318	6
207	3360	1079	3529	3.1139944	17.8034384	6
208	7120	6321	9521	1.126404	41.5980717	6
209	5680	3441	6641	1.6506829	31.2079054	6
210	3283	1044	3445	3.144636	17.6407654	6
211	7205	7068	10093	1.0193831	44.4500768	6
212	4895	2448	5473	1.9995915	26.5697425	6
213	4484	2037	4925	2.2012764	24.431447	6
214	5029	4620	6829	1.0885281	42.5728254	6
215	3807	2176	4385	1.7495404	29.7513746	6
216	2580	949	2749	2.7186512	20.195016	6
217	2700	2291	3541	1.1785247	40.3152362	6
218	2300	1491	2741	1.5425889	32.9537746	6
219	1073	264	1105	4.0643939	13.8224592	6
220	6512	6375	9113	1.0214902	44.3909349	6
221	4440	2231	4969	1.990139	26.6785073	6
222	4029	1820	4421	2.2137363	24.3098921	6
223	4672	4305	6353	1.0852497	42.6589383	6
224	3520	2001	4049	1.7591204	29.6167647	6
225	2419	900	2581	2.6877778	20.4079547	6
226	2343	1976	3065	1.1857287	40.1430661	6
227	2013	1316	2405	1.5296353	33.174689	6
228	912	215	937	4.2418605	13.265034	6
229	8967	8944	12665	1.0025716	44.926441	6
230	5917	2844	6565	2.0805204	25.6712282	6
231	5848	2775	6473	2.1073874	25.3853402	6
232	4935	4408	6617	1.1195554	41.7716179	6
233	3901	2340	4549	1.667094	30.9572874	6
234	2320	759	2441	3.0566535	18.1157827	6
235	4544	4017	6065	1.1311924	41.4774331	6

M3 =

	0	1	2	3	4	5
236	3648	2225	4273	1.6395506	31.3799971	6
237	2067	644	2165	3.2096273	17.3050898	6
238	5733	5644	8045	1.015769	44.5518116	6
239	3871	1920	4321	2.0161458	26.3812309	6
240	3604	1653	3965	2.1802783	24.6388993	6
241	3813	3484	5165	1.0944317	42.4184674	6
242	2911	1680	3361	1.7327381	29.990169	6
243	1924	693	2045	2.7763348	19.8083735	6
244	2300	1971	3029	1.1669203	40.5951541	6
245	1932	1235	2293	1.5643725	32.5881066	6
246	945	248	977	3.8104839	14.704764	6
247	3456	3367	4825	1.026433	44.2526854	6
248	2376	1207	2665	1.968517	26.9304258	6
249	2109	940	2309	2.243617	24.0229654	6
250	2640	2449	3601	1.077991	42.8506029	6
251	1968	1105	2257	1.7809955	29.3135127	6
252	1395	532	1493	2.6221805	20.8749582	6
253	1127	936	1465	1.2040598	39.7104429	6
254	989	660	1189	1.4984848	33.7168096	6
255	416	87	425	4.7816092	11.8122865	6
256	4928	4905	6953	1.0046891	44.8659979	6
257	3264	1577	3625	2.0697527	25.7874973	6
258	3195	1508	3533	2.1187003	25.2667329	6
259	2800	2511	3761	1.1150936	41.8853161	6
260	2200	1311	2561	1.6781083	30.7911095	6
261	1333	444	1405	3.0022523	18.4220597	6
262	2409	2120	3209	1.1363208	41.3488643	6
263	1947	1196	2285	1.6279264	31.5615179	6
264	1080	329	1129	3.2826748	16.9422953	6
265	3752	3705	5273	1.0126856	44.6388967	6
266	2520	1241	2809	2.0306205	26.2184258	6
267	2379	1100	2621	2.1627273	24.8148459	6
268	2392	2175	3233	1.0997701	42.2796647	6
269	1840	1071	2129	1.7180205	30.2022071	6
270	1189	420	1261	2.8309524	19.4551641	6
271	1593	1376	2105	1.1577035	40.8197803	6
272	1323	836	1565	1.5825359	32.2886891	6
273	672	185	697	3.6324324	15.3921089	6
274	1475	1428	2053	1.0329132	44.0724696	6

M3 =

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279	660	259	709	2.5482625	21.4262537	6
280	420	341	541	1.2316716	39.0733238	6
281	380	261	461	1.4559387	34.4829311	6
282	143	24	145	5.9583333	9.5272868	6
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284	6716	3213	7445	2.0902583	25.566917	6
285	6695	3192	7417	2.0974311	25.4905881	6
286	5460	4859	7309	1.123688	41.6667552	6
287	4340	2619	5069	1.657121	31.1091537	6
288	2537	816	2665	3.1090686	17.8298603	6
289	5341	4740	7141	1.1267932	41.5882448	6
290	4263	2584	4985	1.6497678	31.2219882	6
291	2460	781	2581	3.1498079	17.6135917	6
292	5508	5405	7717	1.0190564	44.4592581	6
293	3740	1869	4181	2.0010701	26.5528036	6
294	3431	1560	3769	2.199359	24.4502541	6
295	3828	3515	5197	1.0890469	42.5592241	6
296	2900	1659	3341	1.748041	29.7725443	6
297	1961	720	2089	2.7236111	20.1612032	6
298	2077	1764	2725	1.1774376	40.3413212	6
299	1767	1144	2105	1.5445804	32.9200414	6
300	828	205	853	4.0390244	13.9059199	6
301	4815	4712	6737	1.0218591	44.3805937	6
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304	3471	3200	4721	1.0846875	42.6737338	6
305	2613	1484	3005	1.7607817	29.5935351	6
306	1800	671	1921	2.6825633	20.4443446	6
307	1720	1449	2249	1.1870255	40.1122038	6
308	1480	969	1769	1.5273478	33.213973	6
309	667	156	685	4.275641	13.163894	6
310	7332	7315	10357	1.002324	44.9335159	6
311	4836	2323	5365	2.0817908	25.6575749	6
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319	4588	4515	6437	1.0161683	44.5405518	6
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326	1537	984	1825	1.5619919	32.6277165	6
327	748	195	773	3.8358974	14.6115243	6
328	2905	2832	4057	1.0257768	44.2709996	6
329	1995	1012	2237	1.9713439	26.8972397	6
330	1776	793	1945	2.2395965	24.0612008	6
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332	1643	924	1885	1.7781385	29.3527968	6
333	1160	441	1241	2.6303855	20.8154301	6
334	960	799	1249	1.2015019	39.7703444	6
335	840	559	1009	1.5026834	33.6428318	6
336	357	76	365	4.6973684	12.0180162	6
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339	2132	1005	2357	2.121393	25.2386536	6
340	1885	1692	2533	1.1140662	41.9115684	6
341	1479	880	1721	1.6806818	30.7525135	6
342	900	301	949	2.9900332	18.4922321	6
343	1596	1403	2125	1.1375624	41.3178349	6
344	1292	795	1517	1.6251572	31.6050392	6
345	713	216	745	3.3009259	16.8539441	6
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347	1749	860	1949	2.0337209	26.1837955	6
348	1656	767	1825	2.1590613	24.8518946	6
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350	1269	740	1469	1.7148649	30.2480254	6
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358	780	731	1069	1.0670315	43.1426298	6
359	572	315	653	1.815873	28.8415566	6
360	425	168	457	2.5297619	21.5686034	6
361	253	204	325	1.2401961	38.8800836	6
362	231	160	281	1.44375	34.7080617	6
363	84	13	85	6.4615385	8.7974139	6
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371	58101	35140	67901	1.6534149	31.1659319	7
372	33744	10783	35425	3.1293703	17.7214482	7
373	69696	68303	97585	1.0203944	44.4216761	7
374	47432	23775	53057	1.9950368	26.6220479	7
375	43253	19596	47485	2.2072362	24.373163	7
376	49296	45353	66985	1.0869402	42.6144993	7
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378	25403	9396	27085	2.7035973	20.2983109	7
379	25615	21672	33553	1.1819398	40.2334647	7
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381	10080	2431	10369	4.1464418	13.5591407	7
382	69597	68204	97445	1.020424	44.4208452	7
383	47367	23744	52985	1.994904	26.6235761	7
384	43188	19565	47413	2.2074112	24.3714553	7
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389	21868	14235	26093	1.5362136	33.0621738	7
390	10057	2424	10345	4.1489274	13.5513172	7
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398	27875	17052	32677	1.6347056	31.4554269	7
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404	23904	13847	27625	1.7262945	30.0826697	7
405	15645	5588	16613	2.7997495	19.6554551	7
406	19665	16912	25937	1.1627838	40.6957131	7
407	16435	10452	19477	1.5724263	32.4547337	7
408	8176	2193	8465	3.7282262	15.0146987	7
409	24139	23460	33661	1.0289429	44.1827466	7
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413	14105	7872	16153	1.7917937	29.1658951	7
414	10148	3915	10877	2.5920817	21.0961384	7
415	7476	6157	9685	1.2142277	39.4738171	7
416	6636	4477	8005	1.4822426	34.0057174	7
417	2679	520	2729	5.1519231	10.984653	7
418	68783	68544	97105	1.0034868	44.9003002	7
419	45461	21900	50461	2.0758447	25.7215953	7
420	44744	21183	49505	2.1122598	25.3341289	7
421	38383	34344	51505	1.1176042	41.8212757	7
422	30261	18100	35261	1.6718785	30.8849042	7
423	18144	5983	19105	3.0325923	18.2500238	7
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425	27632	16905	32393	1.634546	31.4579174	7
426	15515	4788	16237	3.2403926	17.1504714	7
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428	32007	15824	35705	2.0226871	26.3074258	7
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436	23856	23183	33265	1.0290299	44.1803251	7
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438	14453	6396	15805	2.2596936	23.8712136	7
439	18816	17513	25705	1.0744019	42.9458875	7
440	13952	7785	15977	1.7921644	29.1608512	7
441	10043	3876	10765	2.5910733	21.1036266	7
442	7375	6072	9553	1.2145916	39.4653931	7
443	6549	4420	7901	1.4816742	34.0159061	7
444	2640	511	2689	5.1663405	10.9547414	7
445	70664	70623	99905	1.0005805	44.9833895	7
446	46464	22223	51505	2.0908068	25.5610651	7
447	46341	22100	51341	2.0968778	25.4964603	7
448	37720	33561	50489	1.1239236	41.66079	7
449	29992	18105	35033	1.656559	31.1177528	7
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451	37023	32864	49505	1.1265519	41.5943394	7
452	29541	17900	34541	1.6503352	31.2132554	7
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454	37736	37023	52865	1.0192583	44.4535847	7
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459	13483	4956	14365	2.7205408	20.1821217	7
460	14175	12032	18593	1.1781084	40.3252224	7
461	12069	7820	14381	1.5433504	32.9408687	7
462	5640	1391	5809	4.054637	13.8544412	7
463	33677	32964	47125	1.0216297	44.3870249	7
464	22967	11544	25705	1.9895184	26.6856769	7
465	20828	9405	22853	2.2145667	24.3018308	7
466	24205	22308	32917	1.0850368	42.6645415	7
467	18231	10360	20969	1.759749	29.6079709	7
468	12540	4669	13381	2.6858	20.4217427	7
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474	31443	14924	34805	2.1068748	25.3907386	7
475	26488	23655	35513	1.1197633	41.766332	7
476	20944	12567	24425	1.6665871	30.9649745	7
477	12445	4068	13093	3.0592429	18.1014498	7
478	24465	21632	32657	1.1309634	41.4831906	7
479	19635	11972	22997	1.6400768	31.3718231	7
480	11136	3473	11665	3.2064498	17.3212135	7
481	30560	30081	42881	1.0159237	44.5474491	7
482	20640	10241	23041	2.0154282	26.3893516	7
483	19203	8804	21125	2.1811677	24.6300458	7
484	20368	18615	27593	1.0941714	42.4252548	7
485	15544	8967	17945	1.7334672	29.9797354	7
486	10285	3708	10933	2.7737325	19.82551	7
487	12225	10472	16097	1.1673988	40.5835498	7
488	10275	6572	12197	1.563451	32.6034283	7
489	5016	1313	5185	3.8202589	14.6687628	7
490	18779	18300	26221	1.0261749	44.2598893	7
491	12905	6552	14473	1.9696276	26.9173788	7
492	11468	5115	12557	2.2420332	24.0380135	7
493	14299	13260	19501	1.078356	42.8409336	7
494	10665	5992	12233	1.7798732	29.3289335	7
495	7548	2875	8077	2.6253913	20.8516245	7
496	6156	5117	8005	1.2030487	39.7341042	7
497	5396	3597	6485	1.500139	33.6876291	7
498	2279	480	2329	4.7479167	11.8937304	7
499	24543	24424	34625	1.0048723	44.8607756	7
500	16261	7860	18061	2.0688295	25.7975114	7
501	15904	7503	17585	2.1196855	25.2564529	7
502	13983	12544	18785	1.1147162	41.8949562	7
503	10981	6540	12781	1.679052	30.7769467	7
504	6664	2223	7025	2.9977508	18.4478512	7
505	11960	10521	15929	1.1367741	41.3375309	7
506	9672	5945	11353	1.6269134	31.5774268	7
507	5355	1628	5597	3.289312	16.9100614	7
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515	6708	4235	7933	1.5839433	32.2656926	7
516	3417	944	3545	3.6197034	15.4436571	7
517	7176	6943	9985	1.033559	44.0545731	7
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519	4293	1876	4685	2.2883795	23.6048769	7
520	5976	5593	8185	1.0684785	43.1038903	7
521	4392	2425	5017	1.811134	28.9048668	7
522	3243	1276	3485	2.5415361	21.4778019	7
523	2015	1632	2593	1.2346814	39.004911	7
524	1829	1260	2221	1.4515873	34.5630091	7
525	680	111	689	6.1261261	9.2709302	7
526	67301	67260	95149	1.0006096	44.9825584	7
527	44255	21168	49057	2.0906557	25.5626771	7
528	44132	21045	48893	2.0970302	25.4948431	7
529	35941	31980	48109	1.1238587	41.6624341	7
530	28575	17248	33377	1.6567138	31.1153832	7
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532	35244	31283	47125	1.1266183	41.5926618	7
533	28124	17043	32885	1.650179	31.2156597	7
534	16241	5160	17041	3.1474806	17.6258096	7
535	36039	35360	50489	1.0192025	44.4551531	7
536	24477	12236	27365	2.0004086	26.5603789	7
537	22440	10199	24649	2.2002157	24.4418474	7
538	25095	23048	34073	1.0888146	42.5653132	7
539	19005	10868	21893	1.7487118	29.76307	7
540	12864	4727	13705	2.7213878	20.1763468	7
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543	5395	1332	5557	4.0503003	13.8687028	7
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545	21812	10965	24413	1.9892385	26.6889115	7
546	19775	8928	21697	2.2149418	24.2981919	7
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552	4452	1045	4573	4.2602871	13.2096757	7
553	46565	46452	65773	1.0024326	44.9304114	7
554	30719	14760	34081	2.0812331	25.6635673	7
555	30380	14421	33629	2.10665	25.393107	7
556	25573	22836	34285	1.1198546	41.7640099	7
557	20223	12136	23585	1.6663645	30.9683505	7
558	12012	3925	12637	3.0603822	18.0951505	7
559	23652	20915	31573	1.130863	41.4857141	7
560	18980	11571	22229	1.6403077	31.3682393	7
561	10769	3360	11281	3.2050595	17.3282771	7
562	29415	28952	41273	1.015992	44.545523	7
563	19869	9860	22181	2.0151116	26.3929358	7
564	18480	8471	20329	2.1815606	24.6261357	7
565	19623	17936	26585	1.0940566	42.4282465	7
566	14973	8636	17285	1.7337888	29.9751347	7
567	9912	3575	10537	2.7725874	19.8330593	7
568	11752	10065	15473	1.1676105	40.5784156	7
569	9880	6321	11729	1.5630438	32.6102029	7
570	4819	1260	4981	3.8246032	14.6528186	7
571	18228	17765	25453	1.0260625	44.2630258	7
572	12524	6357	14045	1.9701117	26.9116956	7
573	11135	4968	12193	2.2413446	24.044562	7
574	13860	12851	18901	1.0785153	42.836713	7
575	10340	5811	11861	1.7793839	29.3356603	7
576	7313	2784	7825	2.626796	20.8414322	7
577	5989	4980	7789	1.2026104	39.7443658	7
578	5247	3496	6305	1.5008581	33.6749573	7
579	2220	469	2269	4.7334755	11.9289785	7
580	22908	22795	32317	1.0049572	44.8583534	7
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583	13068	11725	17557	1.1145416	41.8994179	7
584	10260	6109	11941	1.6794893	30.7703877	7
585	6231	2080	6569	2.9956731	18.4597791	7
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591	11305	5232	12457	2.1607416	24.8349005	7
592	11300	10269	15269	1.1003993	42.2633551	7
593	8700	5069	10069	1.7163149	30.2269569	7
594	5607	1976	5945	2.8375506	19.4133118	7
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596	6313	3984	7465	1.5845884	32.2551632	7
597	3220	891	3341	3.6139169	15.4672017	7
598	6625	6408	9217	1.0338639	44.0461267	7
599	4611	2380	5189	1.937395	27.300848	7
600	3960	1729	4321	2.2903412	23.5868678	7
601	5537	5184	7585	1.0680941	43.114174	7
602	4067	2244	4645	1.8123886	28.8880818	7
603	3008	1185	3233	2.5383966	21.5019417	7
604	1848	1495	2377	1.2361204	38.9722731	7
605	1680	1159	2041	1.4495255	34.6010668	7
606	621	100	629	6.21	9.1478458	7
607	79104	79097	111865	1.0000885	44.9974809	7
608	51968	24825	57593	2.0933736	25.5337133	7
609	51947	24804	57565	2.0942993	25.5238625	7
610	41904	37247	56065	1.1250302	41.6327904	7
611	33368	20175	38993	1.6539281	31.1580582	7
612	19397	6204	20365	3.1265313	17.736532	7
613	41785	37128	55897	1.1254309	41.6226584	7
614	33291	20140	38909	1.6529791	31.1726201	7
615	19320	6169	20281	3.131788	17.7086227	7
616	40296	39497	56425	1.0202294	44.4263089	7
617	27416	13737	30665	1.9957778	26.6135251	7
618	25019	11340	27469	2.206261	24.3826817	7
619	28440	26159	38641	1.0871975	42.6077421	7
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621	14645	5412	15613	2.7060237	20.2815935	7
622	14857	12576	19465	1.1813772	40.2469165	7
623	12699	8260	15149	1.5374092	33.0417962	7
624	5856	1417	6025	4.1326747	13.6026345	7
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632	12412	8085	14813	1.5351886	33.0796598	7
633	5695	1368	5857	4.1630117	13.5071529	7
634	41664	41527	58825	1.0032991	44.9056607	7
635	27528	13255	30553	2.0768012	25.7112771	7
636	27117	12844	30005	2.1112582	25.3446409	7
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638	18288	10945	21313	1.6709	30.899683	7
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640	20855	18408	27817	1.1329313	41.4337649	7
641	16781	10260	19669	1.635575	31.4418668	7
642	9440	2919	9881	3.2339842	17.182457	7
643	28336	27927	39785	1.0146453	44.5835156	7
644	19096	9447	21305	2.0213824	26.3221151	7
645	17869	8220	19669	2.1738443	24.7031271	7
646	18560	16929	25121	1.0963436	42.3686728	7
647	14208	8225	16417	1.7274164	30.066527	7
648	9315	3332	9893	2.7956182	19.6822706	7
649	11607	9976	15305	1.1634924	40.6784588	7
650	9709	6180	11509	1.5710356	32.4776949	7
651	4816	1287	4985	3.7420357	14.9617777	7
652	14773	14364	20605	1.028474	44.1958	7
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654	8964	3973	9805	2.2562295	23.9037588	7
655	11573	10764	15805	1.0751579	42.9257872	7
656	8591	4800	9841	1.7897917	29.1931615	7
657	6164	2373	6605	2.5975558	21.055798	7
658	4620	3811	5989	1.2122802	39.5189556	7
659	4092	2755	4933	1.4852995	33.9510111	7
660	1665	328	1697	5.0762195	11.1443996	7
661	37625	37488	53113	1.0036545	44.8955133	7
662	24875	11988	27613	2.0749917	25.7308049	7
663	24464	11577	27065	2.1131554	25.3247372	7
664	21049	18840	28249	1.1172505	41.8302882	7
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670	26355	25988	37013	1.0141219	44.5982964	7
671	17745	8768	19793	2.0238367	26.2944942	7
672	16644	7667	18325	2.1708621	24.7330032	7
673	17139	15620	23189	1.0972471	42.3451724	7
674	13137	7616	15185	1.7249212	30.1024507	7
675	8580	3059	9109	2.8048382	19.6225208	7
676	10900	9381	14381	1.161923	40.7166906	7
677	9100	5781	10781	1.5741221	32.426775	7
678	4543	1224	4705	3.7116013	15.0788957	7
679	12792	12425	17833	1.0295372	44.1662106	7
680	8840	4521	9929	1.9553196	27.086363	7
681	7739	3420	8461	2.2628655	23.8414856	7
682	10152	9455	13873	1.0737176	42.964092	7
683	7520	4191	8609	1.7943212	29.1315389	7
684	5429	2100	5821	2.5852381	21.1470544	7
685	3913	3216	5065	1.2167289	39.4159718	7
686	3483	2356	4205	1.4783531	34.0755478	7
687	1392	265	1417	5.2528302	10.7786274	7
688	52208	52185	73817	1.0004407	44.9873926	7
689	34320	16409	38041	2.0915351	25.5532987	7
690	34251	16340	37949	2.0961444	25.5042486	7
691	27808	24735	37217	1.1242369	41.6528594	7
692	22120	13359	25841	1.6558126	31.1291784	7
693	12901	4140	13549	3.1161836	17.7917203	7
694	27417	24344	36665	1.1262323	41.6024085	7
695	21867	13244	25565	1.6510873	31.2016868	7
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697	27512	26985	38537	1.0195294	44.4459682	7
698	18696	9353	20905	1.9989308	26.5773178	7
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700	19240	17679	26129	1.0882968	42.5788914	7
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702	9877	3636	10525	2.7164466	20.21008	7
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709	18067	16644	24565	1.0854963	42.6524521	7
710	13617	7744	15665	1.7583936	29.6269388	7
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714	3551	840	3649	4.227381	13.3088549	7
715	33200	33111	46889	1.0026879	44.923116	7
716	21912	10535	24313	2.0799241	25.6776417	7
717	21645	10268	23957	2.1080055	25.3788333	7
718	18304	16353	24545	1.1193053	41.7779759	7
719	14464	8673	16865	1.6677044	30.9480364	7
720	8611	2820	9061	3.0535461	18.133012	7
721	16791	14840	22409	1.131469	41.4704827	7
722	13485	8228	15797	1.6389159	31.3898595	7
723	7632	2375	7993	3.2134737	17.2856113	7
724	21440	21111	30089	1.0155843	44.5570196	7
725	14472	7175	16153	2.0170035	26.371532	7
726	13485	6188	14837	2.1792178	24.6494637	7
727	14224	12993	19265	1.0947433	42.4103444	7
728	10864	6273	12545	1.7318667	30.0026476	7
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730	8631	7400	11369	1.1663514	40.6089619	7
731	7245	4628	8597	1.565471	32.5698566	7
732	3552	935	3673	3.7989305	14.747538	7
733	12629	12300	17629	1.026748	44.2438998	7
734	8687	4416	9745	1.9671649	26.9463259	7
735	7700	3429	8429	2.2455526	24.0045984	7
736	9685	8988	13213	1.0775478	42.8623499	7
737	7215	4048	8273	1.7823617	29.294761	7
738	5124	1957	5485	2.6182933	20.9032734	7
739	4092	3395	5317	1.2053019	39.6814104	7
740	3596	2403	4325	1.4964628	33.7525413	7
741	1505	312	1537	4.8237179	11.7120314	7
742	19929	19840	28121	1.0044859	44.8717927	7
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749	7896	4847	9265	1.6290489	31.5439074	7
750	4389	1340	4589	3.2753731	16.9778938	7
751	14931	14740	20981	1.0129579	44.6311931	7
752	10033	4944	11185	2.0293285	26.2328816	7
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754	9555	8692	12917	1.0992867	42.2922035	7
755	7345	4272	8497	1.7193352	30.1831561	7
756	4756	1683	5045	2.8259061	19.4872895	7
757	6308	5445	8333	1.158494	40.8004334	7
758	5244	3317	6205	1.5809466	32.3146913	7
759	2655	728	2753	3.646978	15.333614	7
760	6120	5929	8521	1.0322145	44.0918427	7
761	4248	2185	4777	1.9441648	27.2194735	7
762	3675	1612	4013	2.2797767	23.6841607	7
763	5016	4687	6865	1.0701942	43.0580292	7
764	3696	2047	4225	1.8055691	28.9795355	7
765	2709	1060	2909	2.5556604	21.3698324	7
766	1769	1440	2281	1.2284722	39.1462657	7
767	1595	1092	1933	1.4606227	34.3970947	7
768	608	105	617	5.7904762	9.7981884	7
769	28667	28644	40525	1.000803	44.9770222	7
770	18857	9024	20905	2.0896498	25.573412	7
771	18788	8955	20813	2.0980458	25.4840664	7
772	15355	13668	20557	1.123427	41.6733656	7
773	12201	7360	14249	1.6577446	31.0996195	7
774	7140	2299	7501	3.1056981	17.8479833	7
775	14964	13277	20005	1.1270618	41.5814654	7
776	11948	7245	13973	1.6491373	31.2316969	7
777	6887	2184	7225	3.1533883	17.5948277	7
778	15633	15344	21905	1.0188347	44.4654903	7
779	10611	5300	11861	2.0020755	26.5412972	7
780	9744	4433	10705	2.19806	24.4630106	7
781	10833	9944	14705	1.0894006	42.5499552	7
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787	13356	13067	18685	1.0221168	44.3733717	7
788	9116	4587	10205	1.9873556	26.7106915	7
789	8249	3720	9049	2.2174731	24.2736576	7
790	9660	8909	13141	1.0842968	42.6840213	7
791	7268	4125	8357	1.7619394	29.5773658	7
792	5015	1872	5353	2.678953	20.4696128	7
793	4747	3996	6205	1.1879379	40.0905132	7
794	4089	2680	4889	1.5257463	33.2415257	7
795	1836	427	1885	4.2997658	13.0925862	7
796	21755	21708	30733	1.0021651	44.9380576	7
797	14345	6888	15913	2.0826074	25.6488054	7
798	14204	6747	15725	2.105232	25.4080563	7
799	11899	10620	15949	1.1204331	41.7493086	7
800	9417	5656	10985	1.6649576	30.9897083	7
801	5580	1819	5869	3.0676196	18.0552324	7
802	11100	9821	14821	1.1302311	41.501606	7
803	8900	5421	10421	1.6417635	31.3456522	7
804	5063	1584	5305	3.1963384	17.3727154	7
805	13425	13208	18833	1.0164294	44.5331925	7
806	9075	4508	10133	2.0130878	26.4158664	7
807	8424	3857	9265	2.1840809	24.6010866	7
808	9009	8240	12209	1.0933252	42.4473282	7
809	6867	3956	7925	1.7358443	29.9457622	7
810	4560	1649	4849	2.7653123	19.8811532	7
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812	4480	2871	5321	1.5604319	32.6537187	7
813	2173	564	2245	3.8528369	14.5500151	7
814	8772	8555	12253	1.0253653	44.2824921	7
815	6020	3051	6749	1.9731236	26.8763859	7
816	5369	2400	5881	2.2370833	24.0851589	7
817	6612	6125	9013	1.0795102	42.8103742	7
818	4940	2781	5669	1.7763394	29.3775841	7
819	3479	1320	3721	2.6356061	20.7777231	7
820	2923	2436	3805	1.1999179	39.8075133	7
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827	3828	2275	4453	1.6826374	30.7232436	7
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829	4085	3588	5437	1.1385173	41.2939964	7
830	3311	2040	3889	1.6230392	31.6383992	7
831	1820	549	1901	3.3151184	16.7858564	7
832	6916	6837	9725	1.0115548	44.6709011	7
833	4636	2277	5165	2.0360123	26.1582569	7
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835	4340	3939	5861	1.1018025	42.2270153	7
836	3348	1955	3877	1.712532	30.2819785	7
837	2145	752	2273	2.8523936	19.3197931	7
838	2997	2596	3965	1.1544684	40.8991098	7
839	2479	1560	2929	1.5891026	32.1816442	7
840	1276	357	1325	3.5742297	15.6305927	7
841	2263	2184	3145	1.0361722	43.9822756	7
842	1581	820	1781	1.9280488	27.4139318	7
843	1344	583	1465	2.3053173	23.4502324	7
844	1943	1824	2665	1.0652412	43.1906363	7
845	1421	780	1621	1.8217949	28.7627995	7
846	1064	423	1145	2.5153664	21.6806187	7
847	600	481	769	1.2474012	38.7180022	7
848	552	385	673	1.4337662	34.8943893	7
849	195	28	197	6.9642857	8.1712365	7
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853	31535	28032	42193	1.1249643	41.6344564	7
854	25109	15180	29341	1.6540843	31.1556627	7
855	14600	4671	15329	3.125669	17.7411181	7
856	31416	27913	42025	1.1254971	41.6209866	7
857	25032	15145	29257	1.6528227	31.1750217	7
858	14523	4636	15245	3.1326575	17.7040145	7
859	30397	29796	42565	1.0201705	44.4279623	7
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865	11220	9499	14701	1.181177	40.2517066	7
866	9588	6235	11437	1.5377706	33.0356403	7
867	4425	1072	4553	4.1277985	13.6181052	7
868	29704	29103	41585	1.0206508	44.4144807	7
869	20224	10143	22625	1.9938874	26.6352775	7
870	18421	8340	20221	2.208753	24.3583708	7
871	21080	19401	28649	1.0865419	42.6249626	7
872	15912	9065	18313	1.7553227	29.669995	7
873	10875	4028	11597	2.699851	20.3241737	7
874	10863	9184	14225	1.1828179	40.212484	7
875	9301	6060	11101	1.5348185	33.0859786	7
876	4264	1023	4385	4.1681329	13.4911641	7
877	31855	31752	44977	1.0032439	44.907236	7
878	21045	10132	23357	2.0770825	25.7082439	7
879	20736	9823	22945	2.1109641	25.3477291	7
880	17711	15840	23761	1.1181187	41.8081731	7
881	13973	8364	16285	1.6706121	30.9040323	7
882	8360	2751	8801	3.0388949	18.2146751	7
883	15960	14089	21289	1.1327986	41.4370946	7
884	12840	7849	15049	1.6358772	31.4371571	7
885	7227	2236	7565	3.2321109	17.191829	7
886	21565	21252	30277	1.014728	44.5811809	7
887	14535	7192	16217	2.0209956	26.3264744	7
888	13596	6253	14965	2.1743163	24.6984042	7
889	14141	12900	19141	1.0962016	42.372368	7
890	10823	6264	12505	1.7278097	30.0608718	7
891	7100	2541	7541	2.7941755	19.6916518	7
892	8820	7579	11629	1.1637419	40.6723851	7
893	7380	4699	8749	1.5705469	32.4857698	7
894	3657	976	3785	3.7469262	14.9431237	7
895	11368	11055	15857	1.028313	44.2002827	7
896	7840	3999	8801	1.9604901	27.0250709	7
897	6901	3060	7549	2.2552288	23.913177	7
898	8888	8265	12137	1.0753781	42.9199368	7
899	6600	3689	7561	1.7891027	29.202555	7
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903	1288	255	1313	5.0509804	11.1986827	7
904	27816	27713	39265	1.0037167	44.893739	7
905	18392	8865	20417	2.0746757	25.7342175	7
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909	7373	2436	7765	3.0266831	18.283287	7
910	13825	12192	18433	1.1339403	41.4084621	7
911	11139	6820	13061	1.6332845	31.4776141	7
912	6240	1921	6529	3.2483082	17.1111226	7
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917	9752	5655	11273	1.7244916	30.1086439	7
918	6365	2268	6757	2.8064374	19.6121925	7
919	8113	6984	10705	1.1616552	40.7232211	7
920	6771	4300	8021	1.5746512	32.4180614	7
921	3384	913	3505	3.7064622	15.0988489	7
922	9387	9116	13085	1.029728	44.1609061	7
923	6489	3320	7289	1.9545181	27.0958877	7
924	5676	2507	6205	2.2640606	23.8303027	7
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930	1015	192	1033	5.2864583	10.7116539	7
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932	28063	13416	31105	2.0917561	25.5509431	7
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943	15687	14416	21305	1.0881659	42.5823257	7
944	11869	6780	13669	1.75059	29.7365733	7
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961	14661	13100	19661	1.1191603	41.7816645	7
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964	13420	11859	17909	1.13163	41.466438	7
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990	4503	1496	4745	3.0100267	18.3776787	7
991	8235	7252	10973	1.1355488	41.3681753	7
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1001	4361	2760	5161	1.5800725	32.3290099	7
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1012	19152	19135	27073	1.0008884	44.9745759	7
1013	12600	6031	13969	2.0892058	25.5781537	7
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1024	7280	6681	9881	1.0896572	42.5432331	7
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1101	196701	62860	206501	3.1291919	17.7223956	8
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1103	276297	138496	309065	1.9949818	26.6226806	8
1104	251940	114139	276589	2.2073086	24.372456	8
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1107	148004	54747	157805	2.7034175	20.2995503	8
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1118	127555	83028	152197	1.536289	33.060888	8
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1151	176960	105849	206201	1.6718155	30.8858545	8
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1154	161637	98884	189485	1.6346123	31.4568832	8
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1156	277632	273695	389857	1.0143846	44.5908765	8
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1165	139725	135788	194837	1.0289937	44.1813316	8
1166	96471	49280	108329	1.9576096	27.0591857	8
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1183	215817	211744	302345	1.0192355	44.4542256	8
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1186	150345	138088	204137	1.0887622	42.5666872	8
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1189	81104	68847	106385	1.1780324	40.3270443	8
1190	69048	44735	82273	1.5434894	32.938513	8
1191	32277	7964	33245	4.0528629	13.8602719	8
1192	192156	188083	268885	1.0216553	44.3863051	8
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1489	33439	32400	46561	1.0320679	44.0959107	8
1490	23205	11932	26093	1.9447704	27.2122158	8
1491	20088	8815	21937	2.2788429	23.6927967	8
1492	27359	25560	37441	1.0703834	43.0529751	8
1493	20165	11172	23053	1.8049588	28.9877459	8
1494	14768	5775	15857	2.5572294	21.357902	8
1495	9696	7897	12505	1.227808	39.1614373	8
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1498	142760	142641	201809	1.0008343	44.9761262	8
1499	93912	44945	104113	2.0894872	25.5751489	8
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1502	60784	36663	70985	1.6579112	31.0970717	8
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1504	74481	66080	99569	1.1271338	41.5796499	8
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1509	48675	22148	53477	2.1977154	24.4663972	8
1510	54064	49623	73385	1.0894948	42.5474885	8
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1549	14868	12395	19357	1.1995159	39.8169548	8
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1568	12180	7661	14389	1.5898708	32.1691628	8
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1574	6840	3751	7801	1.8235137	28.7400133	8
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1589	136120	68199	152249	1.9959237	26.611848	8
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1595	63085	41028	75253	1.5376085	33.0384023	8
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1607	137696	66297	152825	2.0769567	25.7096002	8
1608	135659	64260	150109	2.1110955	25.3463484	8
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1613	83979	51340	98429	1.6357421	31.4392625	8
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1652	43240	22119	48569	1.9548804	27.0915812	8
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1666	142439	126480	190489	1.1261781	41.6037797	8
1667	113597	68796	132805	1.6512152	31.1997201	8
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1686	18513	4384	19025	4.2228558	13.322608	8
1687	170328	169865	240553	1.0027257	44.922037	8
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1689	111035	52668	122893	2.1082061	25.3767214	8
1690	93960	83951	126001	1.1192243	41.7800365	8
1691	74240	44511	86561	1.6679023	30.9450373	8
1692	44213	14484	46525	3.0525407	18.1385931	8
1693	86089	76080	114889	1.1315589	41.4682243	8
1694	69147	42196	81005	1.6387098	31.3930629	8
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1741	133245	133132	188357	1.0008488	44.9757106	8
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1744	71421	63580	95621	1.1233249	41.6759502	8
1745	56743	34224	66265	1.6579885	31.0958902	8
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1747	69500	61659	92909	1.1271672	41.5788074	8
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1767	8468	1965	8693	4.3094148	13.064278	8
1768	103293	103076	145925	1.0021052	44.9397687	8
1769	68103	32696	75545	2.0829153	25.6455004	8
1770	67452	32045	74677	2.104915	25.4114003	8
1771	56445	50372	75653	1.120563	41.7460097	8
1772	44679	26840	52121	1.6646423	30.9944973	8
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1774	52756	46683	70445	1.1300902	41.5051524	8
1775	42292	25755	49517	1.6420889	31.3406077	8
1776	24073	7536	25225	3.1944002	17.3826213	8
1777	63407	62376	88945	1.0165288	44.5303926	8
1778	42869	21300	47869	2.0126291	26.4210694	8
1779	39776	18207	43745	2.1846543	24.5953945	8
1780	42607	38976	57745	1.0931599	42.4516439	8
1781	32469	18700	37469	1.7363102	29.9391123	8
1782	21576	7807	22945	2.7636736	19.892017	8
1783	25080	21449	33001	1.1692853	40.5378468	8
1784	21128	13545	25097	1.5598376	32.6636349	8
1785	10235	2652	10573	3.8593514	14.5264947	8
1786	41924	40893	58565	1.0252121	44.2867698	8
1787	28764	14573	32245	1.9737871	26.8686181	8
1788	25671	11480	28121	2.2361498	24.0940696	8
1789	31540	29211	42989	1.0797302	42.8045526	8
1790	23572	13275	27053	1.7756685	29.3868372	8
1791	16585	6288	17737	2.6375636	20.7636177	8
1792	14013	11684	18245	1.1993324	39.8212665	8
1793	12231	8120	14681	1.5062808	33.5796727	8
1794	5244	1133	5365	4.6284201	12.1917274	8
1795	38092	37875	53717	1.0057294	44.8363509	8
1796	25276	12243	28085	2.0645267	25.844282	8
1797	24625	11592	27217	2.1243099	25.2083036	8

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1800	10527	3536	11105	2.9770928	18.5671122	8
1801	18291	16060	24341	1.1389166	41.2840354	8
1802	14833	9144	17425	1.6221566	31.6523195	8
1803	8140	2451	8501	3.3210934	16.757351	8
1804	31428	31075	44197	1.0113596	44.6764284	8
1805	21060	10339	23461	2.0369475	26.1478471	8
1806	20001	9280	22049	2.1552802	24.8902153	8
1807	19668	17845	26557	1.1021575	42.2178303	8
1808	15180	8869	17581	1.7115797	30.2958583	8
1809	9711	3400	10289	2.8561765	19.2960975	8
1810	13667	11844	18085	1.1539176	40.9126422	8
1811	11297	7104	13345	1.5902309	32.1633154	8
1812	5828	1635	6053	3.564526	15.6710558	8
1813	9945	9592	13817	1.0368015	43.9648921	8
1814	6955	3612	7837	1.925526	27.4446041	8
1815	5896	2553	6425	2.3094399	23.4128818	8
1816	8601	8080	11801	1.0644802	43.2110699	8
1817	6283	3444	7165	1.8243322	28.7291752	8
1818	4720	1881	5081	2.5093036	21.7281276	8
1819	2600	2079	3329	1.2506013	38.6463825	8
1820	2400	1679	2929	1.4294223	34.9760073	8
1821	837	116	845	7.2155172	7.8903753	8
1822	461035	461028	651997	1.0000152	44.9995811	8
1823	302841	144640	335609	2.0937569	25.5296335	8
1824	302820	144619	335581	2.0939157	25.5279434	8
1825	243947	216804	326365	1.125196	41.6285973	8
1826	194297	117504	227065	1.6535352	31.1640862	8
1827	112868	36075	118493	3.1287041	17.7249856	8
1828	243828	216685	326197	1.1252648	41.6268589	8
1829	194220	117469	226981	1.6533724	31.1665846	8
1830	112791	36040	118409	3.129606	17.7201971	8
1831	233185	228528	326497	1.0203782	44.4221301	8
1832	158691	79540	177509	1.9951094	26.6212129	8
1833	144720	65569	158881	2.2071406	24.3740959	8
1834	164897	151704	224065	1.0869654	42.6138379	8
1835	124547	71004	143365	1.7540843	29.6873902	8
1836	84968	31425	90593	2.7038345	20.2966751	8

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1839	33741	8140	34709	4.145086	13.5634119	8
1840	232492	227835	325517	1.0204402	44.4203902	8
1841	158236	79323	177005	1.9948313	26.6244128	8
1842	144265	65352	158377	2.207507	24.3705203	8
1843	164540	151389	223589	1.0868689	42.616372	8
1844	124260	70829	143029	1.7543661	29.6834292	8
1845	84807	31376	90425	2.7029258	20.3029418	8
1846	85371	72220	111821	1.1820964	40.2297231	8
1847	73033	47544	87145	1.5361139	33.0638731	8
1848	33580	8091	34541	4.1502904	13.5470307	8
1849	232939	232140	328861	1.0034419	44.9015827	8
1850	153945	74152	170873	2.0760735	25.7191272	8
1851	151548	71755	167677	2.1120201	25.3366444	8
1852	129899	116220	174301	1.1176992	41.8188568	8
1853	102425	61272	119353	1.6716445	30.888437	8
1854	61388	20235	64637	3.0337534	18.243502	8
1855	116316	102637	155125	1.1332755	41.4251304	8
1856	93636	57277	109765	1.6347923	31.4540739	8
1857	52599	16240	55049	3.2388547	17.1581372	8
1858	160321	158040	225121	1.0144331	44.5895089	8
1859	108003	53404	120485	2.0223766	26.31092	8
1860	101160	46561	111361	2.1726337	24.7152464	8
1861	104705	95472	141697	1.096709	42.359166	8
1862	80195	46452	92677	1.7264058	30.0810683	8
1863	52496	18753	55745	2.7993388	19.6581177	8
1864	65928	56695	86953	1.1628539	40.6940069	8
1865	55104	35047	65305	1.5722886	32.4570057	8
1866	27405	7348	28373	3.7295863	15.0094703	8
1867	81220	78939	113261	1.0288957	44.1840589	8
1868	56068	28635	62957	1.9580234	27.0542799	8
1869	49225	21792	53833	2.2588565	23.8790707	8
1870	63956	59517	87365	1.0745837	42.9410513	8
1871	47436	26477	54325	1.7915927	29.1686304	8
1872	34119	13160	36569	2.5926292	21.0920756	8
1873	25179	20740	32621	1.2140309	39.4783758	8
1874	22345	15072	26953	1.4825504	34.0002011	8
1875	9028	1755	9197	5.1441595	11.0008269	8

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1878	148895	70488	164737	2.1123454	25.3332316	8
1879	127764	114323	171445	1.1175704	41.8221379	8
1880	100724	60243	117365	1.6719619	30.8836447	8
1881	60401	19920	63601	3.0321787	18.2523483	8
1882	114181	100740	152269	1.1334227	41.4214398	8
1883	91935	56248	107777	1.6344581	31.4592888	8
1884	51612	15925	54013	3.2409419	17.1477353	8
1885	158340	156101	222349	1.0143433	44.5920441	8
1886	106652	52725	118973	2.0227975	26.3061826	8
1887	99935	46008	110017	2.1721222	24.7203708	8
1888	103284	94163	139765	1.0968639	42.3551355	8
1889	79124	45843	91445	1.7259778	30.0872296	8
1890	51761	18480	54961	2.8009199	19.6478705	8
1891	65221	56100	86029	1.1625847	40.7005648	8
1892	54495	34648	64577	1.5728181	32.4482715	8
1893	27132	7285	28093	3.7243651	15.0295605	8
1894	79239	77000	110489	1.0290779	44.1789886	8
1895	54717	27956	61445	1.9572543	27.0633994	8
1896	48000	21239	52489	2.2599934	23.8684004	8
1897	62535	58208	85433	1.0743369	42.9476165	8
1898	46365	25868	53093	1.792369	29.1580691	8
1899	33384	12887	35785	2.5905176	21.1077549	8
1900	24472	20145	31697	1.2147928	39.4607366	8
1901	21736	14673	26225	1.4813603	34.0215352	8
1902	8755	1692	8917	5.1743499	10.9381939	8
1903	242505	242368	342857	1.0005653	44.9838273	8
1904	159451	76260	176749	2.0908864	25.5602159	8
1905	159040	75849	176201	2.0967976	25.4973123	8
1906	129417	115144	173225	1.1239578	41.6599236	8
1907	102907	62124	120205	1.6564774	31.1190014	8
1908	60088	19305	63113	3.1125615	17.8111168	8
1909	127088	112815	169937	1.1265169	41.5952229	8
1910	101400	61439	118561	1.6504175	31.2119893	8
1911	58581	18620	61469	3.1461332	17.6328908	8
1912	129315	126868	181157	1.0192878	44.4527567	8
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1916	68257	39024	78625	1.7491031	29.7575461	8
1917	46228	16995	49253	2.7200941	20.185168	8
1918	48548	41205	63677	1.1782065	40.3228675	8
1919	41340	26789	49261	1.5431707	32.943913	8
1920	19311	4760	19889	4.0569328	13.8469028	8
1921	115752	113305	161977	1.0215966	44.3879523	8
1922	78936	39673	88345	1.9896655	26.6839766	8
1923	71595	32332	78557	2.2143697	24.3037431	8
1924	83160	76639	113089	1.0850872	42.6632135	8
1925	62640	35599	72049	1.7596	29.6100556	8
1926	43077	16036	45965	2.6862684	20.4184755	8
1927	41561	35040	54361	1.1861016	40.1341885	8
1928	35723	23364	42685	1.5289762	33.1859988	8
1929	16160	3801	16601	4.2515128	13.2359793	8
1930	164169	163760	231881	1.0024976	44.9285556	8
1931	108315	52052	120173	2.0808999	25.6671484	8
1932	107088	50825	118537	2.1069946	25.389477	8
1933	90249	80600	121001	1.1197146	41.7675681	8
1934	71355	42812	83213	1.6667056	30.9631772	8
1935	42408	13865	44617	3.0586369	18.1048023	8
1936	83296	73647	111185	1.1310169	41.4818459	8
1937	66856	40767	78305	1.6399539	31.3737325	8
1938	37909	11820	39709	3.2071912	17.3174487	8
1939	104291	102660	146341	1.0158874	44.5484719	8
1940	70433	34944	78625	2.0155964	26.3874478	8
1941	65540	30051	72101	2.180959	24.632122	8
1942	69475	63492	94117	1.0942323	42.4236648	8
1943	53025	30592	61217	1.7332963	29.9821802	8
1944	35076	12643	37285	2.7743415	19.8214967	8
1945	41748	35765	54973	1.1672865	40.5862737	8
1946	35084	22437	41645	1.5636672	32.5998331	8
1947	17135	4488	17713	3.817959	14.6772179	8
1948	63800	62169	89081	1.0262349	44.2582127	8
1949	43848	22265	49177	1.969369	26.9204161	8
1950	38955	17372	42653	2.2424016	24.0345123	8
1951	48616	45087	66305	1.0782709	42.8431869	8
1952	36256	20367	41585	1.7801345	29.3253409	8
1953	25669	9780	27469	2.6246421	20.8570644	8
1954	20889	17360	27161	1.2032834	39.728609	8

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1956	7728	1625	7897	4.7556923	11.8748364	8
1957	85120	84711	120089	1.0048282	44.8620322	8
1958	56392	27255	62633	2.0690516	25.7951023	8
1959	55165	26028	60997	2.1194483	25.2589269	8
1960	48464	43473	65105	1.1148069	41.8926392	8
1961	38064	22673	44305	1.678825	30.7803518	8
1962	23091	7700	24341	2.9988312	18.4416547	8
1963	41511	36520	55289	1.1366648	41.3402613	8
1964	33565	20628	39397	1.6271573	31.5735954	8
1965	18592	5655	19433	3.28771	16.9178308	8
1966	65520	64711	92089	1.0125017	44.6440969	8
1967	43992	21655	49033	2.0314939	26.2086617	8
1968	41565	19228	45797	2.1616913	24.8253052	8
1969	41664	37873	56305	1.1000977	42.2711714	8
1970	32064	18673	37105	1.7171317	30.2151	8
1971	20691	7300	21941	2.8343836	19.4333786	8
1972	27911	24120	36889	1.1571725	40.8327843	8
1973	23165	14628	27397	1.5836068	32.2711889	8
1974	11792	3255	12233	3.6227343	15.4313526	8
1975	25029	24220	34829	1.0334021	44.0589181	8
1976	17407	8976	19585	1.9392825	27.2781139	8
1977	14980	6549	16349	2.2873721	23.6141353	8
1978	20805	19468	28493	1.0686768	43.0985844	8
1979	15295	8448	17473	1.8104877	28.9135211	8
1980	11284	4437	12125	2.5431598	21.4653368	8
1981	7052	5715	9077	1.2339458	39.0216128	8
1982	6396	4403	7765	1.4526459	34.5434975	8
1983	2385	392	2417	6.0841837	9.3337201	8
1984	218964	218827	309565	1.0006261	44.9820862	8
1985	143988	68875	159613	2.0905699	25.5635928	8
1986	143577	68464	159065	2.0971167	25.4939243	8
1987	116964	104077	156565	1.1238218	41.6633677	8
1988	92988	56125	108613	1.6568018	31.1140374	8
1989	54327	17464	57065	3.1107994	17.8205681	8
1990	114635	101748	153277	1.1266561	41.5917084	8
1991	91481	55440	106969	1.6500902	31.2170258	8
1992	52820	16779	55421	3.1479826	17.6231729	8
1993	117436	115227	164525	1.0191709	44.4560421	8
1994	79756	39867	89165	2.0005518	26.5587385	8

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1996	81740	75069	110981	1.0888649	42.5639955	8
1997	61908	35405	71317	1.7485666	29.7651207	8
1998	41895	15392	44633	2.7218685	20.1730706	8
1999	44187	37516	57965	1.1778175	40.3322035	8
2000	37609	24360	44809	1.5438834	32.9318404	8
2001	17596	4347	18125	4.0478491	13.8767766	8
2002	103873	101664	145345	1.0217284	44.3842557	8
2003	70851	35620	79301	1.9890792	26.6907531	8
2004	64224	28993	70465	2.2151554	24.2961196	8
2005	74753	68904	101665	1.0848862	42.6685033	8
2006	56291	31980	64741	1.7601939	29.6017507	8
2007	38744	14433	41345	2.6844038	20.4314865	8
2008	37200	31351	48649	1.186565	40.123159	8
2009	31992	20935	38233	1.5281586	33.2000392	8
2010	14445	3388	14837	4.2635773	13.1998387	8
2011	152724	152357	215725	1.0024088	44.9310916	8
2012	100748	48405	111773	2.0813552	25.6622544	8
2013	99647	47304	110305	2.1065238	25.3944374	8
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2015	66308	39795	77333	1.6662395	30.9702478	8
2016	39377	12864	41425	3.061023	18.091609	8
2017	77605	68628	103597	1.1308067	41.4871309	8
2018	62271	37960	72929	1.6404373	31.3662268	8
2019	35340	11029	37021	3.2042796	17.332242	8
2020	96276	94757	135085	1.0160305	44.5444378	8
2021	65036	32277	72605	2.0149332	26.394955	8
2022	60479	27720	66529	2.1817821	24.6239324	8
2023	64260	58739	87061	1.0939921	42.4299308	8
2024	49028	28275	56597	1.7339699	29.972544	8
2025	32465	11712	34513	2.7719433	19.8373083	8
2026	38437	32916	50605	1.16773	40.5755199	8
2027	32319	20680	38369	1.5628143	32.6140225	8
2028	15756	4117	16285	3.8270585	14.6438218	8
2029	59943	58424	83705	1.0259996	44.2647812	8
2030	41181	20900	46181	1.9703828	26.908514	8
2031	36624	16343	40105	2.2409594	24.0482262	8
2032	45543	42224	62105	1.0786046	42.834348	8
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1937	66856	40767	78305	1.6399539	31.3737325	8
1938	37909	11820	39709	3.2071912	17.3174487	8
1939	104291	102660	146341	1.0158874	44.5484719	8
1940	70433	34944	78625	2.0155964	26.3874478	8
1941	65540	30051	72101	2.180959	24.632122	8
1942	69475	63492	94117	1.0942323	42.4236648	8
1943	53025	30592	61217	1.7332963	29.9821802	8
1944	35076	12643	37285	2.7743415	19.8214967	8
1945	41748	35765	54973	1.1672865	40.5862737	8
1946	35084	22437	41645	1.5636672	32.5998331	8
1947	17135	4488	17713	3.817959	14.6772179	8
1948	63800	62169	89081	1.0262349	44.2582127	8
1949	43848	22265	49177	1.969369	26.9204161	8
1950	38955	17372	42653	2.2424016	24.0345123	8
1951	48616	45087	66305	1.0782709	42.8431869	8
1952	36256	20367	41585	1.7801345	29.3253409	8
1953	25669	9780	27469	2.6246421	20.8570644	8
1954	20889	17360	27161	1.2032834	39.728609	8
1955	18315	12212	22013	1.4997543	33.6944109	8
1956	7728	1625	7897	4.7556923	11.8748364	8
1957	85120	84711	120089	1.0048282	44.8620322	8
1958	56392	27255	62633	2.0690516	25.7951023	8
1959	55165	26028	60997	2.1194483	25.2589269	8
1960	48464	43473	65105	1.1148069	41.8926392	8
1961	38064	22673	44305	1.678825	30.7803518	8
1962	23091	7700	24341	2.9988312	18.4416547	8
1963	41511	36520	55289	1.1366648	41.3402613	8
1964	33565	20628	39397	1.6271573	31.5735954	8
1965	18592	5655	19433	3.28771	16.9178308	8
1966	65520	64711	92089	1.0125017	44.6440969	8
1967	43992	21655	49033	2.0314939	26.2086617	8
1968	41565	19228	45797	2.1616913	24.8253052	8
1969	41664	37873	56305	1.1000977	42.2711714	8
1970	32064	18673	37105	1.7171317	30.2151	8
1971	20691	7300	21941	2.8343836	19.4333786	8
1972	27911	24120	36889	1.1571725	40.8327843	8
1973	23165	14628	27397	1.5836068	32.2711889	8
1974	11792	3255	12233	3.6227343	15.4313526	8



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1976	17407	8976	19585	1.9392825	27.2781139	8
1977	14980	6549	16349	2.2873721	23.6141353	8
1978	20805	19468	28493	1.0686768	43.0985844	8
1979	15295	8448	17473	1.8104877	28.9135211	8
1980	11284	4437	12125	2.5431598	21.4653368	8
1981	7052	5715	9077	1.2339458	39.0216128	8
1982	6396	4403	7765	1.4526459	34.5434975	8
1983	2385	392	2417	6.0841837	9.3337201	8
1984	218964	218827	309565	1.0006261	44.9820862	8
1985	143988	68875	159613	2.0905699	25.5635928	8
1986	143577	68464	159065	2.0971167	25.4939243	8
1987	116964	104077	156565	1.1238218	41.6633677	8
1988	92988	56125	108613	1.6568018	31.1140374	8
1989	54327	17464	57065	3.1107994	17.8205681	8
1990	114635	101748	153277	1.1266561	41.5917084	8
1991	91481	55440	106969	1.6500902	31.2170258	8
1992	52820	16779	55421	3.1479826	17.6231729	8
1993	117436	115227	164525	1.0191709	44.4560421	8
1994	79756	39867	89165	2.0005518	26.5587385	8
1995	73129	33240	80329	2.2000301	24.4436684	8
1996	81740	75069	110981	1.0888649	42.5639955	8
1997	61908	35405	71317	1.7485666	29.7651207	8
1998	41895	15392	44633	2.7218685	20.1730706	8
1999	44187	37516	57965	1.1778175	40.3322035	8
2000	37609	24360	44809	1.5438834	32.9318404	8
2001	17596	4347	18125	4.0478491	13.8767766	8
2002	103873	101664	145345	1.0217284	44.3842557	8
2003	70851	35620	79301	1.9890792	26.6907531	8
2004	64224	28993	70465	2.2151554	24.2961196	8
2005	74753	68904	101665	1.0848862	42.6685033	8
2006	56291	31980	64741	1.7601939	29.6017507	8
2007	38744	14433	41345	2.6844038	20.4314865	8
2008	37200	31351	48649	1.186565	40.123159	8
2009	31992	20935	38233	1.5281586	33.2000392	8
2010	14445	3388	14837	4.2635773	13.1998387	8
2011	152724	152357	215725	1.0024088	44.9310916	8
2012	100748	48405	111773	2.0813552	25.6622544	8
2013	99647	47304	110305	2.1065238	25.3944374	8
2014	83844	74867	112405	1.119906	41.7627046	8

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2016	39377	12864	41425	3.061023	18.091609	8
2017	77605	68628	103597	1.1308067	41.4871309	8
2018	62271	37960	72929	1.6404373	31.3662268	8
2019	35340	11029	37021	3.2042796	17.332242	8
2020	96276	94757	135085	1.0160305	44.5444378	8
2021	65036	32277	72605	2.0149332	26.394955	8
2022	60479	27720	66529	2.1817821	24.6239324	8
2023	64260	58739	87061	1.0939921	42.4299308	8
2024	49028	28275	56597	1.7339699	29.972544	8
2025	32465	11712	34513	2.7719433	19.8373083	8
2026	38437	32916	50605	1.16773	40.5755199	8
2027	32319	20680	38369	1.5628143	32.6140225	8
2028	15756	4117	16285	3.8270585	14.6438218	8
2029	59943	58424	83705	1.0259996	44.2647812	8
2030	41181	20900	46181	1.9703828	26.908514	8
2031	36624	16343	40105	2.2409594	24.0482262	8
2032	45543	42224	62105	1.0786046	42.834348	8
2033	33981	19100	38981	1.7791099	29.3394286	8
2034	24024	9143	25705	2.6275839	20.8357189	8
2035	19720	16401	25649	1.2023657	39.7500986	8
2036	17272	11505	20753	1.5012603	33.6678737	8
2037	7315	1548	7477	4.7254522	11.9486508	8
2038	73675	73308	103933	1.0050063	44.8569552	8
2039	48825	23608	54233	2.0681549	25.8048343	8
2040	47724	22507	52765	2.120407	25.248929	8
2041	42059	37740	56509	1.1144409	41.9019904	8
2042	33017	19656	38425	1.6797416	30.7666049	8
2043	20060	6699	21149	2.9944768	18.4666536	8
2044	35820	31501	47701	1.1371068	41.3292167	8
2045	28980	17821	34021	1.6261714	31.5890883	8
2046	16023	4864	16745	3.2942023	16.8863879	8
2047	57505	56808	80833	1.0122694	44.6506711	8
2048	38595	18988	43013	2.0325995	26.196311	8
2049	36504	16897	40225	2.1603835	24.8385202	8
2050	36449	33120	49249	1.1005133	42.2604002	8
2051	28067	16356	32485	1.7160064	30.2314372	8
2052	18080	6369	19169	2.8387502	19.4057214	8
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2054	20400	12871	24121	1.5849584	32.2491247	8

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2057	14740	7611	16589	1.9366706	27.3095815	8
2058	12649	5520	13801	2.2914855	23.576375	8
2059	17732	16605	24293	1.0678711	43.1201432	8
2060	13020	7181	14869	1.813118	28.8783318	8
2061	9639	3800	10361	2.5365789	21.5159419	8
2062	5883	4756	7565	1.2369638	38.9531649	8
2063	5353	3696	6505	1.4483225	34.6233046	8
2064	1972	315	1997	6.2603175	9.0755483	8
2065	304235	304212	430237	1.0000756	44.9978502	8
2066	199865	95472	221497	2.093441	25.5329959	8
2067	199796	95403	221405	2.0942318	25.5245802	8
2068	161131	143220	215581	1.1250593	41.6320534	8
2069	128313	77584	149945	1.653859	31.1591179	8
2070	74580	23851	78301	3.1269129	17.7345029	8
2071	160740	142829	215029	1.1254017	41.6233975	8
2072	128060	77469	149669	1.6530483	31.1715583	8
2073	74327	23736	78025	3.1314038	17.7106596	8
2074	154785	151712	216737	1.0202555	44.4255762	8
2075	105315	52772	117797	1.9956606	26.6148733	8
2076	96096	43553	105505	2.2064152	24.3811765	8
2077	109281	100520	148481	1.0871568	42.6088119	8
2078	82563	47084	95045	1.7535256	29.6952436	8
2079	56280	20801	60001	2.7056392	20.2842409	8
2080	57040	48279	74729	1.1814661	40.244792	8
2081	48760	31719	58169	1.537249	33.0445258	8
2082	22477	5436	23125	4.1348418	13.5957699	8
2083	152508	149435	213517	1.0205641	44.4169129	8
2084	103820	52059	116141	1.9942757	26.6308066	8
2085	94601	42840	103849	2.20824	24.3633721	8
2086	108108	99485	146917	1.0866764	42.62143	8
2087	81620	46509	93941	1.7549292	29.6755205	8
2088	55751	20640	59449	2.7011143	20.3154452	8
2089	55867	47244	73165	1.1825205	40.219588	8
2090	47817	31144	57065	1.5353519	33.0768729	8
2091	21948	5275	22573	4.1607583	13.5141999	8
2092	159083	158556	224605	1.0033237	44.9049558	8
2093	105113	50616	116665	2.0766754	25.7126343	8
2094	103532	49035	114557	2.1113898	25.3432589	8

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2097	41820	13771	44029	3.0368165	18.2263177	8
2098	79596	70253	106165	1.1329908	41.4322739	8
2099	64052	39165	75077	1.6354398	31.4439754	8
2100	36023	11136	37705	3.234824	17.1782591	8
2101	108417	106856	152225	1.0146084	44.5845568	8
2102	73059	36140	81509	2.0215551	26.3201707	8
2103	68376	31457	75265	2.1736338	24.7052331	8
2104	70977	64736	96065	1.0964069	42.3670234	8
2105	54339	31460	62789	1.7272409	30.0690508	8
2106	35616	12737	37825	2.7962629	19.6780818	8
2107	44440	38199	58601	1.1633812	40.6811644	8
2108	37168	23655	44057	1.5712534	32.4740965	8
2109	18445	4932	19093	3.7398621	14.9700833	8
2110	56244	54683	78445	1.0285463	44.1937846	8
2111	38804	19803	43565	1.9595011	27.0367753	8
2112	34121	15120	37321	2.2566799	23.899523	8
2113	44100	41021	60229	1.0750591	42.9284135	8
2114	32732	18285	37493	1.7901012	29.1889431	8
2115	23495	9048	25177	2.5967065	21.0618632	8
2116	17563	14484	22765	1.2125794	39.5120161	8
2117	15561	10480	18761	1.4848282	33.9594338	8
2118	6324	1243	6445	5.0876911	11.1198985	8
2119	145812	145285	205837	1.0036274	44.8962883	8
2120	96396	46453	107005	2.0751297	25.7293142	8
2121	94815	44872	104897	2.1130103	25.3262579	8
2122	81540	72979	109429	1.1173077	41.8288308	8
2123	64260	38419	74869	1.6726099	30.873865	8
2124	38577	12736	40625	3.028973	18.2703833	8
2125	72581	64020	96781	1.1337238	41.4138882	8
2126	58463	35784	68545	1.6337749	31.4699545	8
2127	32780	10101	34301	3.2452232	17.1264372	8
2128	101908	100485	143117	1.0141613	44.5971831	8
2129	68620	33909	76541	2.0236515	26.2965759	8
2130	64351	29640	70849	2.1710864	24.7307544	8
2131	66308	60435	89717	1.0971788	42.3469489	8
2132	50820	29459	58741	1.7251095	30.0997377	8
2133	33201	11840	35249	2.8041385	19.6270427	8
2134	42117	36244	55565	1.1620406	40.7138241	8

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2136	17548	4725	18173	3.7138624	15.0701328	8
2137	49735	48312	69337	1.0294544	44.1685149	8
2138	34365	17572	38597	1.9556681	27.0822238	8
2139	30096	13303	32905	2.2623468	23.8463418	8
2140	39431	36720	53881	1.073829	42.9611283	8
2141	29213	16284	33445	1.7939695	29.1363142	8
2142	21080	8151	22601	2.5861857	21.13999	8
2143	15240	12529	19729	1.216378	39.4240776	8
2144	13560	9169	16369	1.4788963	34.0657812	8
2145	5427	1036	5525	5.238417	10.8075866	8
2146	193289	193200	273289	1.0004607	44.9868221	8
2147	127067	60756	140845	2.0914313	25.5544057	8
2148	126800	60489	140489	2.0962489	25.5031389	8
2149	102985	91608	137833	1.1241922	41.6539908	8
2150	81915	49468	95693	1.655919	31.127549	8
2151	47784	15337	50185	3.1156028	17.7948277	8
2152	101472	90095	135697	1.1262778	41.6012598	8
2153	80936	49023	94625	1.6509802	31.2033342	8
M3 = 2154	46805	14892	49117	3.1429627	17.6495747	8
2155	102051	100100	142949	1.0194905	44.44706	8
2156	69345	34688	77537	1.9991063	26.5753052	8
2157	63492	28835	69733	2.2019074	24.4252636	8
2158	71331	65540	96869	1.0883583	42.5772808	8
2159	53985	30848	62177	1.7500324	29.7444347	8
2160	36612	13475	39013	2.7170315	20.2060812	8
2161	38164	32373	50045	1.1788836	40.3066281	8
2162	32524	21093	38765	1.5419333	32.9648913	8
2163	15151	3720	15601	4.0728495	13.79486	8
2164	93240	91289	130489	1.0213717	44.394258	8
2165	63560	31929	71129	1.9906668	26.672412	8
2166	57707	26076	63325	2.2130311	24.3167407	8
2167	66792	61535	90817	1.0854311	42.6541676	8
2168	50336	28623	57905	1.7585858	29.6242484	8
2169	34565	12852	36877	2.6894647	20.396209	8
2170	33625	28368	43993	1.1853144	40.1529345	8
2171	28875	18868	34493	1.5303689	33.1621076	8
2172	13104	3097	13465	4.2311915	13.2972951	8
2173	124169	123840	175369	1.0026567	44.9240095	8
2174	81947	39396	90925	2.0800843	25.6759184	8

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2176	68425	61128	91753	1.1193725	41.7762685	8
2177	54075	32428	63053	1.6675404	30.9505212	8
2178	32184	10537	33865	3.0543798	18.1283863	8
2179	62832	55535	83857	1.1313946	41.4723519	8
2180	50456	30783	59105	1.6390865	31.3872077	8
2181	28565	8892	29917	3.2124381	17.2908513	8
2182	79971	78740	112229	1.0156337	44.5556252	8
2183	53985	26768	60257	2.0167738	26.3741292	8
2184	50292	23075	55333	2.1795016	24.6466357	8
2185	53091	48500	71909	1.0946598	42.4125214	8
2186	40545	23408	46817	1.7321001	29.9993042	8
2187	26772	9635	28453	2.7786196	19.793351	8
2188	32164	27573	42365	1.1665035	40.6052698	8
2189	27004	17253	32045	1.5651771	32.5747384	8
2190	13231	3480	13681	3.8020115	14.7361074	8
2191	47400	46169	66169	1.0266629	44.2462722	8
2192	32600	16569	36569	1.9675297	26.9420336	8
2193	28907	12876	31645	2.2450295	24.0095597	8
M3 = 2194	36312	33695	49537	1.0776673	42.8591827	8
2195	27056	15183	31025	1.781993	29.2998187	8
2196	19205	7332	20557	2.6193399	20.8956426	8
2197	15385	12768	19993	1.2049655	39.6892693	8
2198	13515	9028	16253	1.4970093	33.7428768	8
2199	5664	1177	5785	4.8122345	11.7392051	8
2200	72816	72487	102745	1.0045387	44.8702852	8
2201	48216	23287	53545	2.0705114	25.7792722	8
2202	47229	22300	52229	2.1178924	25.2751687	8
2203	41280	37009	55441	1.1154044	41.8773804	8
2204	32448	19345	37777	1.6773326	30.8027597	8
2205	19635	6532	20693	3.0059706	18.4008075	8
2206	35687	31416	47545	1.1359498	41.3581415	8
2207	28829	17700	33829	1.6287571	31.5484843	8
2208	16016	4887	16745	3.2772662	16.9686503	8
2209	54784	54087	76985	1.0128866	44.6332093	8
2210	36808	18135	41033	2.0296664	26.2290994	8
2211	34717	16044	38245	2.1638619	24.8034005	8
2212	35024	31857	47345	1.099413	42.2889269	8
2213	26928	15665	31153	1.7189914	30.1881364	8
2214	17427	6164	18485	2.8272226	19.4788989	8

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2215	23175	20008	30617	1.1582867	40.8055063	8
2216	19261	12180	22789	1.5813629	32.3078773	8
2217	9760	2679	10121	3.6431504	15.3489645	8
2218	22213	21516	30925	1.0323945	44.0868511	8
2219	15423	7936	17345	1.9434224	27.2283752	8
2220	13332	5845	14557	2.2809239	23.6735592	8
2221	18245	17052	24973	1.0699625	43.0642176	8
2222	13439	7440	15361	1.8063172	28.9694775	8
2223	9860	3861	10589	2.5537426	21.384432	8
2224	6396	5203	8245	1.2292908	39.1275812	8
2225	5772	3955	6997	1.4594185	34.4191273	8
2226	2193	376	2225	5.8324468	9.7290324	8
2227	115940	115851	163901	1.0007682	44.9780164	8
2228	76260	36491	84541	2.0898304	25.5714846	8
2229	75993	36224	84185	2.0978633	25.4860022	8
2230	62068	55245	83093	1.1235044	41.6714051	8
2231	49324	29757	57605	1.6575596	31.1024477	8
2232	28855	9288	30313	3.1066968	17.8426097	8
2233	60555	53732	80957	1.1269821	41.5834789	8
M3 = 2234	48345	29312	56537	1.6493245	31.228814	8
2235	27876	8843	29245	3.1523239	17.600402	8
2236	63020	61851	88301	1.0189003	44.4636479	8
2237	42780	21371	47821	2.0017781	26.5446995	8
2238	39273	17864	43145	2.1984438	24.4592403	8
2239	43708	40125	59333	1.089296	42.5526984	8
2240	33124	18957	38165	1.7473229	29.7826924	8
2241	22375	8208	23833	2.725999	20.1449629	8
2242	23835	20252	31277	1.1769208	40.3537337	8
2243	20265	13112	24137	1.5455308	32.9039651	8
2244	9516	2363	9805	4.0270842	13.9455436	8
2245	54209	53040	75841	1.02204	44.3755241	8
2246	36995	18612	41413	1.9876961	26.70675	8
2247	33488	15105	36737	2.2170142	24.2781017	8
2248	39169	36120	53281	1.0844131	42.680959	8
2249	29475	16732	33893	1.7615945	29.5821804	8
2250	20328	7585	21697	2.6800264	20.4620942	8
2251	19296	16247	25225	1.1876654	40.0969898	8
2252	16616	10887	19865	1.5262239	33.2333036	8
2253	7469	1740	7669	4.2925287	13.1138977	8
2254	86564	86373	122285	1.0022113	44.9367359	8

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2257	47380	42291	63509	1.1203329	41.7518546	8
2258	37492	22515	43733	1.665201	30.9860114	8
2259	22225	7248	23377	3.0663631	18.0621501	8
2260	44133	39044	58925	1.1303401	41.4988641	8
2261	35391	21560	41441	1.6415121	31.3495514	8
2262	20124	6293	21085	3.1978389	17.365054	8
2263	53636	52773	75245	1.0163531	44.535345	8
2264	36252	18005	40477	2.0134407	26.4118654	8
2265	33663	15416	37025	2.1836404	24.6054614	8
2266	35956	32883	48725	1.0934525	42.444006	8
2267	27412	15795	31637	1.7354859	29.9508795	8
2268	18193	6576	19345	2.7665754	19.872787	8
2269	21285	18212	28013	1.1687349	40.5511717	8
2270	17919	11480	21281	1.5608885	32.6461041	8
2271	8700	2261	8989	3.8478549	14.5680525	8
2272	34727	33864	48505	1.0254843	44.2791684	8
2273	23837	12084	26725	1.9726084	26.8824193	8
2274	21248	9495	23273	2.2378094	24.0782328	8
2275	26215	24288	35737	1.0793396	42.814889	8
2276	19581	11020	22469	1.7768603	29.3704046	8
2277	13800	5239	14761	2.6340905	20.7886563	8
2278	11544	9617	15025	1.2003743	39.7967968	8
2279	10088	6705	12113	1.5045488	33.6100539	8
2280	4307	924	4405	4.6612554	12.1083881	8
2281	35211	35020	49661	1.005454	44.844195	8
2282	23353	11304	25945	2.0659059	25.8292733	8
2283	22780	10731	25181	2.1228217	25.2237793	8
2284	20235	18172	27197	1.1135263	41.9253747	8
2285	15865	9432	18457	1.6820399	30.7321814	8
2286	9676	3243	10205	2.9836571	18.5290546	8
2287	16988	14925	22613	1.1382245	41.3013041	8
2288	13764	8477	16165	1.6236876	31.6281797	8
2289	7575	2288	7913	3.3107517	16.8067482	8
2290	28449	28120	40001	1.0116999	44.6667928	8
2291	19075	9372	21253	2.035318	26.1659907	8
2292	18088	8385	19937	2.1571855	24.8708919	8
2293	17889	16240	24161	1.1015394	42.2338244	8
2294	13795	8052	15973	1.7132389	30.2716818	8



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2312	70500	42619	82381	1.6541918	31.1540146	8
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2318	58156	29133	65045	1.9962242	26.6083935	8
2319	53095	24072	58297	2.2056746	24.3884088	8
2320	60260	55419	81869	1.0873527	42.6036674	8
2321	45540	25979	52429	1.7529543	29.7032786	8
2322	31017	11456	33065	2.7074895	20.2715067	8
2323	31581	26740	41381	1.1810396	40.2549918	8
2324	26983	17544	32185	1.5380187	33.031417	8
2325	12460	3021	12821	4.1244621	13.6287107	8
2326	83215	81528	116497	1.0206923	44.4133166	8
2327	56661	28420	63389	1.9937016	26.6374171	8
2328	51600	23359	56641	2.2089987	24.3559766	8
2329	59087	54384	80305	1.0864776	42.6266519	8
2330	44597	25404	51325	1.7555109	29.667352	8
2331	30488	11295	32513	2.6992475	20.3283465	8
2332	30408	25705	39817	1.1829605	40.2090793	8
2333	26040	16969	31081	1.534563	33.0903409	8
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2339	39644	23733	46205	1.6704167	30.9069863	8
2340	23711	7800	24961	3.0398718	18.2092082	8
2341	45331	40020	60469	1.1327086	41.439353	8
2342	36465	22288	42737	1.6360822	31.433962	8
2343	20532	6355	21493	3.2308419	17.1981836	8
2344	61020	60131	85669	1.0147844	44.5795899	8
2345	41132	20355	45893	2.020732	26.3294445	8
2346	38465	17688	42337	2.1746382	24.6951851	8
2347	40044	36533	54205	1.0961049	42.3748836	8
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2349	20111	7200	21361	2.7931944	19.6980361	8
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2353	32409	31520	45209	1.0282043	44.2033091	8
2354	22347	11396	25085	1.9609512	27.0196176	8
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2356	25305	23528	34553	1.075527	42.9159801	8
2357	18795	10508	21533	1.7886372	29.2089053	8
2358	13464	5177	14425	2.600734	21.0321003	8
2359	10192	8415	13217	1.2111705	39.5447152	8
2360	9016	6063	10865	1.4870526	33.9197062	8
2361	3685	732	3757	5.034153	11.2351652	8
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2363	51015	24592	56633	2.0744551	25.7366004	8
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2367	20468	6765	21557	3.0255728	18.2895498	8
2368	38316	33787	51085	1.1340456	41.4058215	8
2369	30876	18907	36205	1.633046	31.4813403	8
2370	17289	5320	18089	3.249812	17.1036666	8
2371	54511	53760	76561	1.0139695	44.6026017	8
2372	36693	18124	40925	2.0245531	26.2864416	8
2373	34440	15871	37921	2.1699956	24.7416972	8
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2379	9435	2548	9773	3.7029042	15.1126935	8
2380	25900	25149	36101	1.029862	44.157178	8
2381	17908	9165	20117	1.9539553	27.1025791	8
2382	15655	6912	17113	2.2649016	23.8224394	8
2383	20636	19227	28205	1.0732824	42.975678	8
2384	15276	8507	17485	1.7956977	29.112859	8
2385	11049	4280	11849	2.5815421	21.1746502	8
2386	7869	6460	10181	1.2181115	39.3840566	8
2387	7015	4752	8473	1.4762205	34.1139434	8
2388	2788	525	2837	5.3104762	10.6643216	8
2389	126684	126637	179125	1.0003711	44.9893857	8
2390	83268	39805	92293	2.091898	25.5494308	8
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2392	67404	59947	90205	1.1243932	41.648904	8
2393	53628	32395	62653	1.6554407	31.1348742	8
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2395	66605	59148	89077	1.1260736	41.6064188	8
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2397	30740	9789	32261	3.1402595	17.6638236	8
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2399	45076	22557	50405	1.9983154	26.584378	8
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2402	35148	20075	40477	1.7508344	29.7331285	8
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2409	38184	17263	41905	2.2118983	24.3277514	8
2410	44063	40584	59905	1.0857234	42.6464777	8
2411	33221	18900	38221	1.7577249	29.6363051	8
2412	22784	8463	24305	2.6921895	20.3772633	8
2413	22320	18841	29209	1.1846505	40.1687573	8
2414	19152	12505	22873	1.5315474	33.1419142	8
2415	8715	2068	8957	4.2142166	13.3489429	8

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2418	50657	24024	56065	2.1085997	25.3725799	8
2419	42924	38357	57565	1.1190656	41.784073	8
2420	33908	20325	39533	1.6682903	30.9391606	8
2421	20207	6624	21265	3.0505737	18.1495225	8
2422	39235	34668	52357	1.1317353	41.4637918	8
2423	31521	19240	36929	1.6383056	31.3993483	8
2424	17820	5539	18661	3.2171872	17.2668458	8
2425	50676	49907	71125	1.0154087	44.5619738	8
2426	34196	16947	38165	2.0178203	26.3623016	8
2427	31889	14640	35089	2.1782104	24.6595081	8
2428	33540	30629	45421	1.0950406	42.4025968	8
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2440	9400	7791	12209	1.2065203	39.6529651	8
2441	8272	5535	9953	1.4944896	33.7874724	8
2442	3445	708	3517	4.8658192	11.613458	8
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2444	33495	16168	37193	2.0716848	25.7665622	8
2445	32844	15517	36325	2.1166463	25.2881907	8
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2447	22487	13416	26185	1.676133	30.8207939	8
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2449	24900	21931	33181	1.1353791	41.3724218	8
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2459	13080	8281	15481	1.5795194	32.3380749	8
2460	6603	1804	6845	3.6601996	15.280819	8
2461	15892	15405	22133	1.0316131	44.1085312	8
2462	11020	5661	12389	1.9466525	27.1896824	8
2463	9559	4200	10441	2.2759524	23.7195667	8
2464	12932	12075	17693	1.0709731	43.037234	8
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2466	6969	2720	7481	2.5621324	21.3207042	8
2467	4653	3796	6005	1.225764	39.2081903	8
2468	4183	2856	5065	1.4646359	34.3238499	8
2469	1612	285	1637	5.6561404	10.0262311	8
2470	49335	49288	69737	1.0009536	44.9727111	8
2471	32461	15540	35989	2.0888674	25.5817675	8
2472	32320	15399	35801	2.0988376	25.4756705	8
2473	26487	23584	35465	1.1230919	41.6818536	8
2474	21037	12684	24565	1.6585462	31.0873696	8
2475	12328	3975	12953	3.1013836	17.8712341	8
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2477	20520	12449	24001	1.6483252	31.2442117	8
2478	11811	3740	12389	3.1580214	17.5706037	8
2479	27285	26788	38237	1.0185531	44.4734093	8
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2481	17020	7749	18701	2.1964124	24.4792084	8
2482	18837	17284	25565	1.0898519	42.5381349	8
2483	14287	8184	16465	1.7457234	29.8053191	8
2484	9628	3525	10253	2.7313475	20.1086784	8
2485	10388	8835	13637	1.1757782	40.3811977	8
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2503	20536	18177	27425	1.1297794	41.5129737	8
2504	16456	10017	19265	1.6428072	31.3294773	8
2505	9379	2940	9829	3.1901361	17.4044538	8
2506	24341	23940	34141	1.0167502	44.5241542	8
2507	16463	8184	18385	2.011608	26.4326576	8
2508	15260	6981	16781	2.1859332	24.5827063	8
2509	16405	15012	22237	1.0927924	42.4612375	8
2510	12495	7192	14417	1.7373471	29.9243212	8
2511	8316	3013	8845	2.7600398	19.9161483	8
2512	9588	8195	12613	1.1699817	40.5209967	8
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2514	3905	1008	4033	3.8740079	14.4738492	8
2515	16520	16119	23081	1.0248775	44.2961201	8
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2519	9256	5217	10625	1.7741997	29.4071142	8
2520	6499	2460	6949	2.6418699	20.7326526	8
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2522	4845	3212	5813	1.508406	33.5424596	8
2523	2088	455	2137	4.589011	12.2932557	8
2524	13000	12921	18329	1.0061141	44.825395	8
2525	8632	4185	9593	2.0626045	25.865226	8
2526	8395	3948	9277	2.1263931	25.1866689	8
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2528	5904	3503	6865	1.6854125	30.6817925	8
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2530	6201	5440	8249	1.1398897	41.2597746	8
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2532	2752	825	2873	3.3357576	16.6877891	8
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2540	3995	2508	4717	1.5929027	32.1199861	8
2541	2072	585	2153	3.5418803	15.7662843	8
2542	3219	3100	4469	1.0383871	43.9211437	8
2543	2257	1176	2545	1.9192177	27.5215801	8
2544	1900	819	2069	2.3199023	23.3185936	8
2545	2835	2668	3893	1.0625937	43.2617891	8
2546	2065	1128	2353	1.8306738	28.6454502	8
2547	1564	627	1685	2.4944179	21.8456173	8
2548	812	645	1037	1.2589147	38.4613585	8
2549	756	533	925	1.4183865	35.1848617	8
2550	255	32	257	7.96875	7.1526713	8
2551	346792	346785	490433	1.0000202	44.9994378	8
2552	227800	108801	252449	2.0937308	25.5299119	8
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2554	183512	163095	245513	1.1251847	41.6288835	8
2555	146160	88391	170809	1.653562	31.1636747	8
2556	84909	27140	89141	3.1285556	17.725774	8
2557	183393	162976	245345	1.1252761	41.6265725	8
2558	146083	88356	170725	1.6533456	31.1669962	8
2559	84832	27105	89057	3.1297547	17.7194081	8
2560	175488	171985	245713	1.0203681	44.4224161	8
2561	119424	59857	133585	1.9951551	26.6206867	8
2562	108915	49348	119573	2.2070803	24.3746838	8
2563	124080	114151	168601	1.0869813	42.613421	8
2564	93720	53431	107881	1.7540379	29.6880417	8
2565	63933	23644	68165	2.7039841	20.295644	8
2566	64529	54600	84529	1.1818498	40.2356164	8
2567	55187	35916	65845	1.5365575	33.0563093	8
2568	25400	6129	26129	4.1442323	13.5661026	8
2569	174795	171292	244733	1.0204505	44.4201031	8
2570	118969	59640	133081	1.9947854	26.6249407	8
2571	108460	49131	119069	2.2075675	24.3699302	8
2572	123723	113836	168125	1.086853	42.6167899	8
2573	93433	53256	107545	1.7544126	29.6827759	8
2574	63772	23595	67997	2.702776	20.3039752	8
2575	64172	54285	84053	1.1821313	40.2288873	8



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2576	54900	35741	65509	1.536051	33.0649455	8
2577	25239	6080	25961	4.1511513	13.5443248	8
2578	175720	175119	248081	1.003432	44.9018664	8
2579	116128	55935	128897	2.0761241	25.7185812	8
2580	114325	54132	126493	2.111967	25.3372008	8
2581	97976	87657	131465	1.1177202	41.8183215	8
2582	77256	46217	90025	1.6715927	30.8892187	8
2583	46299	15260	48749	3.0340105	18.2420585	8
2584	87759	77440	117041	1.1332515	41.4257317	8
2585	70645	43212	82813	1.6348468	31.453224	8
2586	39688	12255	41537	3.2385149	17.1598317	8
2587	120840	119119	169681	1.0144477	44.5890943	8
2588	81408	40255	90817	2.0223078	26.3116946	8
2589	76245	35092	83933	2.1727174	24.7144083	8
2590	78936	71977	106825	1.0966837	42.3598246	8
2591	60456	35017	69865	1.7264757	30.0800613	8
2592	39579	14140	42029	2.7990806	19.6597917	8
2593	49679	42720	65521	1.1628979	40.6929333	8
2594	41525	26412	49213	1.572202	32.458435	8
M3 = 2595	20648	5535	21377	3.7304426	15.0061801	8
2596	61341	59620	85541	1.0288662	44.1848821	8
2597	42343	21624	47545	1.9581484	27.0527989	8
2598	37180	16461	40661	2.258672	23.8808026	8
2599	48285	44932	65957	1.0746239	42.9399838	8
2600	35815	19992	41017	1.7914666	29.170347	8
2601	25756	9933	27605	2.5929729	21.0895253	8
2602	19028	15675	24653	1.2139075	39.4812331	8
2603	16884	11387	20365	1.4827435	33.9967425	8
2604	6825	1328	6953	5.1393072	11.0109597	8
2605	171681	171080	242369	1.003513	44.8995533	8
2606	113475	54668	125957	2.0757116	25.7230327	8
2607	111672	52865	123553	2.1123995	25.3326637	8
2608	95841	85760	128609	1.117549	41.8226836	8
2609	75555	45188	88037	1.6720147	30.8828475	8
2610	45312	14945	47713	3.031917	18.2538193	8
2611	85624	75543	114185	1.1334472	41.4208253	8
2612	68944	42183	80825	1.6344025	31.4601569	8
2613	38701	11940	40501	3.2412898	17.1460029	8
2614	118859	117180	166909	1.0143284	44.5924647	8
2615	80057	39576	89305	2.0228674	26.3053965	8

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2617	77515	70668	104893	1.0968897	42.3544663	8
2618	59385	34408	68633	1.7259068	30.0882524	8
2619	38844	13867	41245	2.8011827	19.6461686	8
2620	48972	42125	64597	1.1625401	40.7016518	8
2621	40916	26013	48485	1.5729059	32.4468234	8
2622	20375	5472	21097	3.7235015	15.0328888	8
2623	59360	57681	82769	1.0291084	44.1781413	8
2624	40992	20945	46033	1.9571258	27.0649229	8
2625	35955	15908	39317	2.2601836	23.8666167	8
2626	46864	43623	64025	1.0742957	42.9487121	8
2627	34744	19383	39785	1.7924986	29.1563061	8
2628	25021	9660	26821	2.5901656	21.1103704	8
2629	18321	15080	23729	1.2149204	39.4577821	8
2630	16275	10988	19637	1.4811613	34.0251058	8
2631	6552	1265	6673	5.1794466	10.9276895	8
2632	185416	185313	262145	1.0005558	44.9840975	8
2633	121912	58305	135137	2.0909356	25.5596916	8
2634	121603	57996	134725	2.0967481	25.4978382	8
2635	98936	88023	132425	1.123979	41.6593886	8
M3 = 2636	78672	47495	91897	1.656427	31.1197724	8
2637	45933	14756	48245	3.1128355	17.8096483	8
2638	97185	86272	129953	1.1264953	41.5957681	8
2639	77539	46980	90661	1.6504683	31.2112077	8
2640	44800	14241	47009	3.1458465	17.6343982	8
2641	98784	96913	138385	1.019306	44.4522449	8
2642	67104	33553	75025	1.9999404	26.5657437	8
2643	61491	27940	67541	2.2008232	24.4358897	8
2644	68880	63271	93529	1.0886504	42.5696193	8
2645	52152	29815	60073	1.7491867	29.7563671	8
2646	35325	12988	37637	2.7198183	20.1870499	8
2647	37073	31464	48625	1.1782672	40.3214113	8
2648	31571	20460	37621	1.5430596	32.9457952	8
2649	14744	3633	15185	4.058354	13.8422402	8
2650	88587	86716	123965	1.0215762	44.3885242	8
2651	60409	30360	67609	1.9897563	26.6829281	8
2652	54796	24747	60125	2.2142482	24.3049222	8
2653	63627	58636	86525	1.0851184	42.6623943	8
2654	47929	27240	55129	1.7595081	29.6113412	8
2655	32956	12267	35165	2.6865574	20.41646	8
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2658	12375	2912	12713	4.2496566	13.2415569	8
2659	124936	124623	176465	1.0025116	44.928155	8
2660	82432	39615	91457	2.080828	25.6679213	8
2661	81493	38676	90205	2.107069	25.3886934	8
2662	68696	61353	92105	1.1196844	41.7683357	8
2663	54312	32585	63337	1.6667792	30.9620611	8
2664	32283	10556	33965	3.0582607	18.1068838	8
2665	63375	56032	84593	1.1310501	41.4810104	8
2666	50869	31020	59581	1.6398775	31.3749188	8
2667	28840	8991	30209	3.2076521	17.3151091	8
2668	79464	78223	111505	1.0158649	44.5491063	8
2669	53664	26623	59905	2.0157007	26.3862672	8
2670	49941	22900	54941	2.1808297	24.6334094	8
2671	52920	48361	71689	1.0942702	42.4226783	8
2672	40392	23305	46633	1.7331903	29.9836967	8
2673	26715	9628	28397	2.7747196	19.8190065	8
2674	31823	27264	41905	1.1672168	40.587962	8
2675	26741	17100	31741	1.5638012	32.5976044	8
2676	13064	3423	13505	3.8165352	14.6824569	8
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2678	33319	16920	37369	1.969208	26.9223062	8
2679	29596	13197	32405	2.2426309	24.0323328	8
2680	36957	34276	50405	1.078218	42.8445886	8
2681	27559	15480	31609	1.7802972	29.323106	8
2682	19516	7437	20885	2.6241764	20.8604474	8
2683	15860	13179	20621	1.2034297	39.7251852	8
2684	13908	9275	16717	1.4995148	33.6986349	8
2685	5865	1232	5993	4.7605519	11.8630581	8
2686	65505	65192	92417	1.0048012	44.8628014	8
2687	43395	20972	48197	2.0691875	25.7936275	8
2688	42456	20033	46945	2.1193031	25.2604412	8
2689	37281	33440	50081	1.1148624	41.8912201	8
2690	29283	17444	34085	1.6786861	30.7824369	8
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2692	31960	28119	42569	1.136598	41.3419315	8
2693	25840	15879	30329	1.6273065	31.5712513	8
2694	14317	4356	14965	3.2867309	16.9225823	8
2695	50315	49692	70717	1.0125372	44.6430929	8
2696	33785	16632	37657	2.0313252	26.2105474	8
2697	31916	14763	35165	2.1618912	24.8232861	8

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2700	15900	5611	16861	2.8337195	19.4375914	8
2701	21420	18509	28309	1.1572748	40.8302769	8
2702	17780	11229	21029	1.5834001	32.2745647	8
2703	9047	2496	9385	3.6245994	15.4237903	8
2704	19328	18705	26897	1.0333066	44.0615655	8
2705	13440	6929	15121	1.9396738	27.2734053	8
2706	11571	5060	12629	2.2867589	23.6197744	8
2707	16048	15015	21977	1.0687979	43.0953463	8
2708	11800	6519	13481	1.8100936	28.9188006	8
2709	8701	3420	9349	2.544152	21.4577263	8
2710	5457	4424	7025	1.2334991	39.03176	8
2711	4947	3404	6005	1.4532902	34.5316313	8
2712	1848	305	1873	6.0590164	9.371803	8
2713	161875	161772	228853	1.0006367	44.9817818	8
2714	106449	50920	118001	2.0905145	25.5641833	8
2715	106140	50611	117589	2.0971726	25.4933318	8
2716	86483	76956	115765	1.123798	41.6639696	8
2717	68753	41496	80305	1.6568585	31.1131698	8
M3 = 2718	40172	12915	42197	3.1104917	17.8222193	8
2719	84732	75205	113293	1.1266804	41.5910935	8
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2721	39039	12400	40961	3.1483065	17.6214723	8
2722	86905	85272	121753	1.0191505	44.4566146	8
2723	59019	29500	65981	2.0006441	26.5576821	8
2724	54120	24601	59449	2.1999106	24.4448409	8
2725	60473	55536	82105	1.0888973	42.5631467	8
2726	45803	26196	52765	1.748473	29.7664416	8
2727	30992	11385	33017	2.7221783	20.1709598	8
2728	32712	27775	42913	1.1777498	40.3338282	8
2729	27840	18031	33169	1.5440075	32.9297386	8
2730	13029	3220	13421	4.0462733	13.8819718	8
2731	76708	75075	107333	1.0217516	44.3836069	8
2732	52324	26307	58565	1.9889763	26.6919421	8
2733	47425	21408	52033	2.2152933	24.2947814	8
2734	55220	50901	75101	1.084851	42.6694306	8
2735	41580	23621	47821	1.760298	29.6002944	8
2736	28623	10664	30545	2.6840773	20.4337666	8
2737	27459	23140	35909	1.1866465	40.1212204	8
2738	23617	15456	28225	1.528015	33.2025058	8

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2740	113491	113220	160309	1.0023936	44.9315273	8
2741	74865	35968	83057	2.0814335	25.6614134	8
2742	74052	35155	81973	2.1064429	25.3952895	8
2743	62291	55620	83509	1.1199389	41.7618683	8
2744	49265	29568	57457	1.6661594	30.9714634	8
2745	29252	9555	30773	3.0614338	18.0893395	8
2746	57684	51013	77005	1.1307706	41.4880381	8
2747	46284	28213	54205	1.6405203	31.3649381	8
2748	26271	8200	27521	3.2037805	17.3347806	8
2749	71449	70320	100249	1.0160552	44.5437415	8
2750	48267	23956	53885	2.0148188	26.3962504	8
2751	44880	20569	49369	2.1819243	24.6225186	8
2752	47705	43608	64633	1.0939507	42.431011	8
2753	36395	20988	42013	1.7340861	29.9708823	8
2754	24104	8697	25625	2.7715304	19.840033	8
2755	28512	24415	37537	1.1678067	40.5736607	8
2756	23976	15343	28465	1.562667	32.6164743	8
2757	11685	3052	12077	3.828637	14.638044	8
2758	44620	43491	62309	1.0259594	44.2659032	8
M3 = 2759	30652	15555	34373	1.9705561	26.9064802	8
2760	27265	12168	29857	2.2407133	24.0505678	8
2761	33884	31413	46205	1.0786617	42.8328354	8
2762	25284	14213	29005	1.7789348	29.3418384	8
2763	17871	6800	19121	2.6280882	20.8320641	8
2764	14691	12220	19109	1.2022095	39.7537586	8
2765	12865	8568	15457	1.5015173	33.6633496	8
2766	5452	1155	5573	4.7203463	11.9612033	8
2767	54060	53789	76261	1.0050382	44.8560451	8
2768	35828	17325	39797	2.0679942	25.8065784	8
2769	35015	16512	38713	2.120579	25.2471362	8
2770	30876	27707	41485	1.1143754	41.9036639	8
2771	24236	14427	28205	1.6799057	30.7641436	8
2772	14729	4920	15529	2.9936992	18.4711248	8
2773	26269	23100	34981	1.1371861	41.327233	8
2774	21255	13072	24953	1.6259945	31.5918693	8
2775	11748	3565	12277	3.2953717	16.8807366	8
2776	42300	41789	59461	1.0122281	44.6518398	8
2777	28388	13965	31637	2.0327963	26.1941144	8
2778	26855	12432	29593	2.1601512	24.8408688	8
2779	26796	24347	36205	1.1005873	42.2584813	8

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2782	18109	15660	23941	1.1563857	40.8520641	8
2783	15015	9472	17753	1.5851985	32.2452091	8
2784	7668	2125	7957	3.6084706	15.4894266	8
2785	15471	14960	21521	1.0341578	44.0379904	8
2786	10773	5564	12125	1.936197	27.3152948	8
2787	9240	4031	10081	2.2922352	23.5695054	8
2788	12975	12152	17777	1.0677255	43.1240424	8
2789	9525	5252	10877	1.8135948	28.8719603	8
2790	7056	2783	7585	2.5353935	21.5250821	8
2791	4288	3465	5513	1.237518	38.9406179	8
2792	3904	2697	4745	1.4475343	34.6378892	8
2793	1435	228	1453	6.2938596	9.0279801	8
2794	248792	248775	351833	1.0000683	44.9980585	8
2795	163440	78071	181129	2.093479	25.5325913	8
2796	163389	78020	181061	2.0941938	25.5249849	8
2797	131752	117105	176273	1.1250758	41.6316377	8
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2799	60979	19500	64021	3.1271282	17.7333584	8
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2803	126488	123975	177113	1.0202702	44.4251627	8
2804	86064	43127	96265	1.9955944	26.6156342	8
2805	78525	35588	86213	2.2065022	24.3803269	8
2806	89320	82161	121361	1.0871338	42.6094155	8
2807	67480	38481	77681	1.7535927	29.6943006	8
2808	46003	17004	49045	2.7054223	20.2857346	8
2809	46599	39440	61049	1.1815162	40.2435924	8
2810	39837	25916	47525	1.5371585	33.0460669	8
2811	18360	4439	18889	4.1360667	13.5918929	8
2812	124805	122292	174733	1.0205492	44.4173324	8
2813	84959	42600	95041	1.9943427	26.6300353	8
2814	77420	35061	84989	2.2081515	24.3642346	8
2815	88453	81396	120205	1.0866996	42.6208203	8
2816	66783	38056	76865	1.7548613	29.6764741	8
2817	45612	16885	48637	2.7013325	20.3139383	8
2818	45732	38675	59893	1.1824693	40.2208121	8
2819	39140	25491	46709	1.5354439	33.0753034	8
2820	17969	4320	18481	4.1594907	13.5181671	8

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2822	85608	41225	95017	2.076604	25.7134039	8
2823	84315	39932	93293	2.1114645	25.3424751	8
2824	72136	64527	96785	1.1179196	41.8132421	8
2825	56896	34047	66305	1.6711017	30.8966347	8
2826	34069	11220	35869	3.0364528	18.2283566	8
2827	64809	57200	86441	1.1330245	41.431428	8
2828	52155	31892	61133	1.6353631	31.4451715	8
2829	29328	9065	30697	3.2353006	17.1758773	8
2830	88400	87129	124121	1.0145876	44.5851462	8
2831	59568	29465	66457	2.0216528	26.3190698	8
2832	55755	25652	61373	2.1735147	24.7064253	8
2833	57856	52767	78305	1.0964429	42.3660892	8
2834	44296	25647	51185	1.7271416	30.0704801	8
2835	29029	10380	30829	2.7966281	19.675709	8
2836	36249	31160	47801	1.1633184	40.6826954	8
2837	30315	19292	35933	1.5713767	32.47206	8
2838	15048	4025	15577	3.7386335	14.9747817	8
2839	45731	44460	63781	1.0285875	44.1926391	8
2840	31553	16104	35425	1.9593269	27.0388379	8
M3 = 2841	27740	12291	30341	2.256936	23.897115	8
2842	35875	33372	48997	1.075003	42.9299051	8
2843	26625	14872	30497	1.790277	29.1865469	8
2844	19116	7363	20485	2.5962244	21.0654312	8
2845	14268	11765	18493	1.2127497	39.508067	8
2846	12644	8517	15245	1.4845603	33.9642251	8
2847	5135	1008	5233	5.094246	11.105946	8
2848	119751	119320	169049	1.0036121	44.8967227	8
2849	79165	38148	87877	2.0752071	25.7284786	8
2850	77872	36855	86153	2.112929	25.3271103	8
2851	66951	59920	89849	1.1173398	41.8280137	8
2852	52765	31548	61477	1.6725307	30.8750594	8
2853	31672	10455	33353	3.0293639	18.268182	8
2854	59624	52593	79505	1.133687	41.4148119	8
2855	48024	29393	56305	1.6338584	31.4686502	8
2856	26931	8300	28181	3.2446988	17.1290434	8
2857	83589	82420	117389	1.0141835	44.5965579	8
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2864	28836	18323	34165	1.5737598	32.4327458	8
2865	14385	3872	14897	3.7151343	15.0652082	8
2866	40920	39751	57049	1.0294081	44.1698032	8
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2875	154656	154583	218665	1.0004722	44.9864907	8
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2878	82416	73313	110305	1.1241662	41.6546479	8
2879	65552	39585	76577	1.6559808	31.1266024	8
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2888	43232	24705	49793	1.7499292	29.745891	8
2889	29315	10788	31237	2.7173712	20.2037601	8
2890	30583	25944	40105	1.1788082	40.3084367	8
2891	26061	16900	31061	1.542071	32.9625562	8
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2894	50799	25520	56849	1.9905564	26.6736863	8
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2899	26860	22659	35141	1.1854009	40.1508736	8
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2907	25893	8476	27245	3.0548608	18.1257187	8
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2929	57815	57552	81577	1.0045698	44.8694001	8
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2940	27636	12773	30445	2.1636264	24.8057751	8
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2968	36703	33696	49825	1.0892391	42.5541886	8
2969	27813	15916	32045	1.7474868	29.7803754	8
2970	18792	6895	20017	2.7254532	20.1486727	8
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2981	14007	9176	16745	1.5264821	33.2288609	8
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3073	41003	40404	57565	1.0148253	44.5784361	8
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3725	196471	113160	226729	1.736223	29.9403556	9
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3995	91371	53380	105821	1.7117085	30.2939797	9
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3997	82200	71231	108769	1.1539919	40.9108152	9
3998	67952	42735	80273	1.5900784	32.1657911	9
3999	35045	9828	36397	3.5658323	15.6655967	9
4000	60116	57987	83525	1.0367151	43.9672773	9
4001	42036	21827	47365	1.9258716	27.4403984	9
4002	35649	15440	38849	2.3088731	23.4180106	9
4003	51940	48789	71261	1.0645842	43.2082758	9
4004	37948	20805	43277	1.8239846	28.7337767	9
4005	28495	11352	30673	2.5101304	21.721637	9
4006	15747	12596	20165	1.2501588	38.6562721	9
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4013	1011396	611653	1181965	1.6535454	31.1639298	9
4014	587535	187792	616817	3.1286477	17.7252853	9
4015	1269155	1127868	1697893	1.1252691	41.62675	9
4016	1010945	611448	1181473	1.6533622	31.1667411	9
4017	587084	187587	616325	3.1296625	17.7198972	9
4018	1214020	1189779	1699829	1.0203744	44.4222388	9
4019	826180	414099	924149	1.9951268	26.6210129	9
4020	753457	341376	827185	2.2071177	24.3743194	9
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4026	175684	42387	180725	4.1447614	13.564435	9
4027	1209961	1185720	1694089	1.0204441	44.4202811	9
4028	823515	412828	921197	1.9948138	26.6246135	9
4029	750792	340105	824233	2.20753	24.370296	9
4030	856361	787920	1163689	1.0868629	42.6165308	9
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4054	423423	411536	590465	1.0288845	44.1843722	9
4055	292293	149276	328205	1.958071	27.0537162	9
4056	256632	113615	280657	2.2587863	23.8797299	9
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4067	523745	313248	610273	1.6719819	30.8833419	9
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4096	665699	590940	890149	1.1265086	41.5954312	9
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4099	677092	664275	948533	1.0192947	44.4525612	9
4100	459940	229971	514229	1.9999913	26.5651603	9
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4118	566324	272157	628325	2.0808724	25.6674433	9
4119	559895	265728	619753	2.107023	25.3891781	9
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4122	221753	72504	233305	3.0584933	18.1055965	9
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4135	333375	324848	465473	1.0262492	44.2578148	9
4136	229125	116348	256973	1.9693076	26.9211369	9
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4138	254079	235640	346529	1.0782507	42.8437215	9
4139	189477	106436	217325	1.7801966	29.3244886	9
4140	134160	51119	143569	2.6244645	20.8583547	9
4141	109120	90681	141881	1.2033392	39.7273037	9
4142	95680	63801	115001	1.499663	33.6960214	9
4143	40363	8484	41245	4.7575436	11.8703467	9
4144	446947	444804	630565	1.0048179	44.8623267	9
4145	296097	143104	328865	2.0691036	25.7945377	9
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4148	199841	119040	232609	1.6787718	30.7811499	9
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4162	131596	127347	183125	1.0333655	44.0599327	9
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4165	109340	102309	149741	1.0687232	43.0973438	9
4166	80388	44405	91837	1.8103367	28.9155439	9
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4175	480883	290244	561685	1.6568232	31.1137093	9
4176	280960	90321	295121	3.110683	17.8211925	9
4177	592760	526119	792569	1.1266653	41.591476	9
4178	473040	286679	553129	1.6500685	31.217359	9
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4180	607515	596092	851117	1.0191631	44.4562586	9
4181	412585	206232	461257	2.0005867	26.558339	9
4182	378316	171963	415565	2.1999849	24.4441119	9
4183	422811	388300	574061	1.0888772	42.5636745	9
4184	320233	183144	368905	1.7485312	29.7656202	9
4185	216700	79611	230861	2.7219857	20.1722723	9
4186	228620	194109	299909	1.1777919	40.3328181	9
4187	194580	126029	231829	1.5439304	32.9310454	9
4188	91047	22496	93785	4.0472528	13.8787419	9
4189	536928	525505	751297	1.0217372	44.3840105	9
4190	366240	184129	409921	1.9890403	26.6912025	9
4191	331971	149860	364229	2.2152075	24.2956138	9
4192	386448	356215	525577	1.0848729	42.6688538	9
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4195	192257	162024	251425	1.1865958	40.1224264	9
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4200	516312	245105	571537	2.1064931	25.3947601	9
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4202	343539	206180	400661	1.6662091	30.9707081	9
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4205	322672	196695	377897	1.6404687	31.3657387	9
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4207	498587	490716	699565	1.0160398	44.5441742	9
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4210	332827	304236	450925	1.0939764	42.4303398	9
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4216	310784	302913	433985	1.0259844	44.2652064	9
4217	213504	108353	239425	1.9704484	26.9077434	9
4218	189891	84740	207941	2.2408662	24.0491135	9
4219	236080	218871	321929	1.0786262	42.833775	9
4220	176152	99015	202073	1.7790436	29.3403416	9
4221	124525	47388	133237	2.627775	20.8343344	9
4222	102273	85064	133025	1.2023065	39.7514858	9
4223	89571	59660	107621	1.5013577	33.6661591	9
4224	37944	8033	38785	4.7235155	11.953409	9
4225	379912	378015	535937	1.0050183	44.8566119	9
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4229	170280	101369	198169	1.6798035	30.7656764	9
4230	103467	34556	109085	2.9941834	18.4683406	9
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4232	149413	91884	175405	1.6261047	31.5901372	9
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4249	30260	24459	38909	1.2371724	38.948442	9
4250	27540	19019	33469	1.4480257	34.6287961	9
4251	10137	1616	10265	6.272896	9.0576517	9
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4257	400881	128200	420881	3.1269969	17.7340565	9
4258	864101	767820	1155949	1.1253953	41.62356	9
4259	688415	416448	804577	1.6530635	31.1713248	9
4260	399572	127605	419453	3.1313193	17.7111075	9
4261	831820	815301	1164749	1.0202612	44.425415	9
4262	565972	283605	633053	1.9956348	26.61517	9
4263	516415	234048	566977	2.2064491	24.3808452	9
4264	587324	540243	798005	1.0871478	42.6090473	9
4265	443724	253043	510805	1.7535518	29.6948758	9
4266	302481	111800	322481	2.7055546	20.2848234	9
4267	306501	259420	401549	1.1814856	40.2443242	9
4268	262015	170448	312577	1.5372137	33.0451267	9
4269	120772	29205	124253	4.1353193	13.5942582	9
4270	820039	803520	1148089	1.0205583	44.4170766	9
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4274	438845	250068	505093	1.7549027	29.6758925	9
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4276	300432	254065	393457	1.1825005	40.2200656	9
4277	257136	167473	306865	1.5353878	33.0762605	9
4278	118035	28372	121397	4.1602636	13.5157478	9
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4280	564140	271659	626141	2.0766476	25.7129341	9
4281	555641	263160	614809	2.1114189	25.3429535	9
4282	475308	425165	637717	1.1179377	41.8127809	9
4283	374900	224349	436901	1.6710571	30.897308	9
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4285	427147	377004	569725	1.1330039	41.4319444	9
4286	343737	210184	402905	1.6354099	31.4444413	9
4287	193308	59755	202333	3.2350096	17.1773314	9
4288	582132	573755	817357	1.0146003	44.5847865	9
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4304	83440	56199	100601	1.4847239	33.961299	9
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4326	162175	71688	177313	2.2622336	23.8474026	9
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4333	1030260	1029781	1456669	1.0004651	44.9866937	9
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4341	249452	79365	261773	3.1430983	17.6488601	9
4342	544180	533781	762269	1.0194818	44.4473054	9
4343	369772	184965	413453	1.9991458	26.5748526	9
4344	338575	153768	371857	2.201856	24.4257667	9
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4346	287844	164483	331525	1.7499924	29.7449991	9
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4382	144627	81164	165845	1.7819107	29.3009483	9
4383	102648	39185	109873	2.6195738	20.8939376	9
4384	82288	68295	106937	1.2048905	39.6910217	9
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4423	342237	335884	479525	1.0189143	44.4632541	9
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4425	213268	97005	234293	2.1985258	24.4584343	9
4426	237405	217948	322277	1.0892736	42.5532843	9
4427	179911	102960	207289	1.7473873	29.7817814	9
4428	121540	44589	129461	2.7257844	20.1464216	9
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4430	110028	71195	131053	1.5454456	32.9054058	9
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4432	294816	288463	412465	1.0220236	44.3759823	9
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4434	182133	82156	199805	2.2169166	24.2790475	9
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4438	104975	88392	137233	1.1876075	40.098367	9
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4445	203061	121940	236861	1.6652534	30.9852153	9
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4456	115404	98747	151885	1.1686836	40.5524139	9
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4462	141856	131433	193385	1.0793028	42.8158637	9
4463	105952	59625	121577	1.7769727	29.3688543	9
4464	74683	28356	79885	2.6337636	20.791016	9
4465	62415	51992	81233	1.2004731	39.7944775	9
4466	54549	36260	65501	1.504385	33.6129305	9
4467	23280	4991	23809	4.6643959	12.100476	9
4468	192400	191361	271361	1.0054295	44.844893	9
4469	127600	61761	141761	2.0660287	25.8279372	9
4470	124483	58644	137605	2.1226894	25.2251558	9
4471	110528	99255	148553	1.1135761	41.9240999	9
4472	86664	51527	100825	1.6819143	30.7340597	9
4473	52845	17708	55733	2.9842444	18.525657	9
4474	92865	81592	123617	1.1381631	41.3028367	9
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4476	41416	12513	43265	3.3098378	16.8111274	9
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4495	831779	831660	1176229	1.0001431	44.9959172	9
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4504	425961	417560	596489	1.0201193	44.4294007	9
4505	289755	145148	324077	1.9962728	26.6078354	9
4506	264552	119945	290473	2.2056109	24.3890315	9
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4508	226875	129428	261197	1.7529051	29.703971	9
4509	154512	57065	164713	2.7076492	20.2704087	9
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4513	414180	405779	579829	1.0207034	44.4130048	9
4514	282020	141459	315509	1.9936519	26.6379901	9
4515	256817	116256	281905	2.2090645	24.3553353	9
4516	294132	270725	399757	1.0864604	42.6271041	9
4517	221996	126453	255485	1.7555614	29.6666444	9
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4520	129585	84448	154673	1.5344946	33.0915095	9
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4522	451619	450180	637669	1.0031965	44.9085893	9
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4528	226452	199925	302077	1.1326848	41.4399525	9
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4531	304521	300080	427529	1.0147994	44.5791665	9
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4537	124384	106863	163985	1.1639576	40.6671369	9
4538	104104	66303	123425	1.570125	32.4927441	9
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4540	162060	157619	226069	1.0281755	44.2041106	9



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4544	93956	52533	107645	1.7885139	29.2105884	9
4545	67295	25872	72097	2.6010745	21.0295877	9
4546	50995	42108	66133	1.2110525	39.5474559	9
4547	45105	30328	54353	1.4872395	33.9163718	9
4548	18444	3667	18805	5.0297246	11.2448053	9
4549	382956	381517	540565	1.0037718	44.8921659	9
4550	253236	122077	281125	2.0743957	25.7372426	9
4551	248919	117760	275369	2.1137823	25.318167	9
4552	214620	192139	288061	1.1170038	41.8365759	9
4553	169068	101035	196957	1.6733607	30.8625411	9
4554	101625	33592	107033	3.0252739	18.2912367	9
4555	190157	167676	253525	1.134074	41.4051095	9
4556	153239	93840	179689	1.6329817	31.4823449	9
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4568	88773	45436	99725	1.9538032	27.1043882	9
4569	77592	34255	84817	2.2651292	23.8203125	9
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4629	17304	3553	17665	4.8702505	11.6031779	9
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4670	69580	39861	80189	1.7455658	29.8075491	9
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4675	109865	107448	153673	1.0224946	44.3627867	9
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4763	361931	235620	431869	1.5360793	33.0644638	9
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4824	300548	96555	315677	3.112713	17.8103049	9
4825	635796	564397	850165	1.1265049	41.5955243	9
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4832	341315	195132	393157	1.7491493	29.7568943	9
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4834	242688	205975	318313	1.1782401	40.3220626	9
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4839	358345	161832	393193	2.2143025	24.3043952	9
4840	416156	383517	565925	1.0851044	42.6627605	9
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4842	215559	80240	230009	2.6864282	20.417361	9
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4844	178825	116952	213673	1.5290461	33.184799	9
4845	80908	19035	83117	4.2504859	13.2390642	9
4846	819115	817068	1156957	1.0025053	44.9283344	9
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4848	534300	253579	591421	2.1070357	25.3890443	9
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4850	356057	213624	415225	1.6667462	30.9625607	9
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4957	205737	184616	276425	1.114405	41.9029073	9
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4959	98136	32777	103465	2.9940507	18.4691033	9
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5119	210924	189107	283285	1.1153685	41.8782947	9
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5122	182245	160428	242797	1.1359925	41.3570749	9
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5978	199703	130104	238345	1.534949	33.0837509	9
5979	91580	21981	94181	4.1663255	13.4968029	9
5980	679149	676940	958901	1.0032632	44.9066842	9
5981	448695	216032	497993	2.076984	25.7093064	9
5982	442068	209405	489157	2.1110671	25.3466474	9
5983	377709	337820	506741	1.1180777	41.8092174	9
5984	297975	178352	347273	1.670713	30.9025085	9
5985	178308	58685	187717	3.0383914	18.2174944	9
5986	340156	300267	453725	1.1328451	41.4359287	9
5987	273676	167307	320765	1.6357714	31.4388064	9
5988	154009	47640	161209	3.2327666	17.1885477	9
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5994	151536	54223	160945	2.7946812	19.6883625	9
5995	188448	161945	248473	1.1636543	40.6745169	9
5996	157664	100377	186905	1.5707184	32.4829361	9
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5998	241820	235149	337301	1.0283692	44.1987159	9
5999	166788	85085	187237	1.9602515	27.0278938	9
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6004	75789	62540	98261	1.2118484	39.5289761	9
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6320	134145	85792	159233	1.5636073	32.6008281	9
6321	65508	17155	67717	3.8185952	14.6748783	9
6322	244281	238040	341081	1.0262183	44.2586776	9
6323	167883	85244	188285	1.9694407	26.919574	9
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6325	186105	172592	253817	1.0782945	42.8425623	9
6326	138795	77972	159197	1.7800621	29.3263368	9
6327	98256	37433	105145	2.6248497	20.8555567	9
6328	80008	66495	104033	1.2032183	39.7301333	9
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6330	29605	6228	30253	4.7535324	11.8800788	9
6331	324061	322500	457189	1.0048403	44.8616864	9
6332	214695	103768	238457	2.0689904	25.7957653	9
6333	210012	99085	232213	2.1195135	25.2582461	9
6334	184541	165540	247909	1.1147819	41.893277	9
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6338	127764	78523	149965	1.6270902	31.5746496	9
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6361	453255	403312	606713	1.1238322	41.6631048	9
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6366	204723	65036	214805	3.1478412	17.6239156	9
6367	454917	446356	637325	1.0191798	44.4557919	9
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6408	92851	35340	99349	2.6273628	20.8373224	9
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6410	66717	44444	80165	1.5011475	33.6698603	9
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6415	163496	146703	219665	1.1144694	41.9012631	9
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6417	77973	26036	82205	2.9948149	18.4647103	9
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6427	95513	82584	126265	1.1565557	40.8478957	9
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6430	82467	79756	114725	1.0339912	44.0426028	9
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6448	573244	561867	802685	1.0202486	44.4257705	9
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6456	83260	20139	85661	4.1342668	13.5975904	9
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6469	328452	293795	440677	1.1179632	41.8121324	9
6470	259076	155043	301925	1.6709945	30.8982545	9
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6478	263172	240035	356197	1.0963901	42.3674614	9
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6485	144045	73508	161717	1.9595826	27.0358099	9
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6488	121485	67868	139157	1.7900189	29.1900649	9
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6490	65224	53793	84545	1.2124998	39.5138631	9
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6493	538747	536796	760525	1.0036345	44.8960835	9
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6511	183604	178347	255965	1.0294762	44.1679067	9
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6517	56235	46228	72797	1.2164705	39.4219395	9
6518	50041	33840	60409	1.478753	34.0683579	9
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6524	306348	185005	357877	1.6558904	31.1279868	9
6525	178695	57352	187673	3.1157588	17.7939928	9
6526	379547	336996	507565	1.1262656	41.6015685	9
6527	302729	183360	353929	1.6510089	31.2028915	9
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6530	259228	129675	289853	1.9990592	26.5758457	9
6531	237337	107784	260665	2.2019688	24.4246626	9
6532	266684	245037	362165	1.0883418	42.5777134	9
6533	201828	115325	232453	1.7500802	29.7437608	9
6534	136887	50384	145865	2.7168744	20.2071554	9
6535	142635	120988	187037	1.1789186	40.3057905	9
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6555	106524	33157	111565	3.2127153	17.2894487	9
6556	298500	293909	418909	1.0156205	44.5559989	9
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6559	198132	180995	268357	1.0946822	42.4119381	9
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6570	71592	27335	76633	2.6190598	20.8976841	9
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6730	101916	94763	139165	1.075483	42.9171486	9
6731	75692	42315	86717	1.7887747	29.2070302	9
6732	54233	20856	58105	2.6003548	21.0348991	9
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6775	184965	169988	251213	1.0881062	42.583892	9
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6781	245160	240071	343129	1.0211979	44.3991319	9
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6819	130011	61420	143789	2.1167535	25.2870695	9
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6822	53781	17860	56669	3.0112542	18.3706906	9
6823	98537	86784	131305	1.1354282	41.3711942	9
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6843	6351	1120	6449	5.6705357	10.0012928	9
6844	204764	204573	289445	1.0009337	44.9732814	9
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6846	134151	63920	148601	2.0987328	25.4767814	9
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6856	78076	71643	105965	1.0897924	42.5396917	9
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6880	100340	98691	140741	1.0167087	44.5253231	9
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6894	26688	10105	28537	2.6410688	20.7384067	9
6895	22776	19007	29665	1.1982954	39.845647	9
6896	19856	13167	23825	1.5080125	33.5493449	9
6897	8549	1860	8749	4.5962366	12.2745163	9
6898	54813	54484	77285	1.0060385	44.8275479	9
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6934	492765	482932	689957	1.020361	44.4226129	9
6935	335335	168072	375097	1.9951866	26.6203247	9
6936	305836	138573	335765	2.2070389	24.3750882	9
6937	348381	320500	473381	1.0869922	42.6131342	9
6938	263143	150024	302905	1.754006	29.68849	9
6939	179500	66381	191381	2.704087	20.2949345	9
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6942	71337	17216	73385	4.1436454	13.567953	9
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7027	180692	166515	245717	1.0851395	42.6618386	9
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7067	73689	45280	86489	1.6274072	31.5696692	9
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7307	75044	44733	87365	1.6775982	30.7987704	9
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7309	82411	72540	109789	1.1360766	41.3549693	9
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7314	80585	37248	88777	2.1634719	24.8073337	9
7315	81204	73853	109765	1.0995356	42.2857477	9
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7317	40391	14280	42841	2.8285014	19.4707548	9
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7387	52479	47120	70529	1.1137309	41.9201418	9
7388	41157	24476	47885	1.6815248	30.7398905	9
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7422	91611	41540	100589	2.2053683	24.3914017	9

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7428	21528	5225	22153	4.1201914	13.6423096	9
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7431	88556	40083	97205	2.2093157	24.3528879	9
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7595	18796	10653	21605	1.7643856	29.5432535	9
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7713	266473	87864	280585	3.0327893	18.2489171	9
7714	504189	444860	672389	1.1333656	41.4228723	9
7715	405927	248336	475865	1.6345878	31.4572648	9
7716	227940	70349	238549	3.2401313	17.1517734	9
7717	697532	687645	979493	1.0143781	44.5910619	9
7718	469860	232301	524149	2.0226344	26.3080181	9
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7720	455212	415035	616013	1.0968039	42.3566976	9
7721	348700	202011	402989	1.7261436	30.0848418	9
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7741	535768	475575	716393	1.1265689	41.5939092	9
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7796	139221	85580	163421	1.6267936	31.5793079	9
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7798	273416	270063	384305	1.0124156	44.6465335	9
7799	183552	90335	204577	2.0319035	26.2040851	9
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7807	103037	99684	143365	1.0336363	44.0524315	9
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7911	200112	73945	213337	2.7062276	20.2801896	9
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7966	148509	127820	195941	1.1618604	40.718217	9
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7969	173711	168720	242161	1.0295816	44.1649775	9
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8135	18500	10149	21101	1.8228397	28.7489448	9
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8279	114495	68288	133313	1.6766489	30.8130359	9
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8315	90455	51792	104233	1.7465053	29.7942547	9
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8370	22733	7956	24085	2.8573404	19.2888182	9
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8373	13680	3841	14209	3.5615725	15.683412	9
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8415	192720	63529	202921	3.0335752	18.2445026	9
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8423	251841	145880	291041	1.7263573	30.081766	9
8424	164844	58883	175045	2.7995177	19.6569576	9
8425	207100	178101	273149	1.1628233	40.6947504	9
8426	173092	110085	205133	1.5723486	32.4560156	9
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8436	28296	5497	28825	5.147535	10.9937889	9
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8439	469245	222148	519173	2.112308	25.3336235	9
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8445	162680	50199	170249	3.240702	17.1489303	9
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8453	171613	109116	203365	1.5727574	32.4492714	9
8454	85432	22935	88457	3.7249618	15.0272617	9
8455	249925	242868	348493	1.0290569	44.1795726	9
8456	172575	88168	193793	1.9573428	27.0623493	9
8457	151404	66997	165565	2.2598624	23.8696296	9
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8459	146207	81576	167425	1.7922796	29.1592845	9
8460	105260	40629	112829	2.5907603	21.1059515	9
8461	77220	63571	100021	1.2147048	39.4627718	9
8462	68580	46291	82741	1.4814975	34.0190752	9
8463	27633	5344	28145	5.1708458	10.9454273	9
8464	754091	753660	1066141	1.0005719	44.9836377	9
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8466	494540	235851	547901	2.0968323	25.4969435	9
8467	402475	358092	538717	1.123943	41.6602987	9
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8469	186876	60043	196285	3.1123695	17.8121463	9
8470	395148	350765	528373	1.126532	41.5948404	9
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8473	402369	394760	563681	1.019275	44.4531153	9
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8475	250488	113825	275137	2.2006413	24.4376729	9
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8478	143808	52865	153217	2.7202875	20.1838488	9
8479	151096	128247	198185	1.178164	40.3238876	9
8480	128656	83367	153305	1.5432485	32.9425944	9
8481	60109	14820	61909	4.0559379	13.8501684	9
8482	359700	352091	503341	1.0216109	44.387551	9
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8486	194684	110637	223925	1.7596645	29.6091534	9
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8495	222585	133552	259577	1.6666542	30.9639569	9
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8499	118295	36888	123913	3.2068694	17.3190823	9
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8503	216609	197960	293441	1.0942059	42.4243543	9
8504	165315	95372	190853	1.7333704	29.98112	9
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8506	130096	111447	171305	1.1673351	40.5850929	9
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8526	57524	17493	60125	3.2884011	16.9144785	9
8527	203116	200613	285485	1.0124768	44.6448037	9
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8536	77287	74784	107545	1.0334697	44.0570458	9
8537	53757	27724	60485	1.9390059	27.2814433	9
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8539	64295	60168	88057	1.0685913	43.1008721	9
8540	47261	26100	53989	1.8107663	28.9097902	9
8541	34880	13719	37481	2.5424594	21.4707121	9
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8544	7347	1204	7445	6.1021595	9.3067065	9
8545	696920	696489	985289	1.0006188	44.9822937	9
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8558	196936	112623	226865	1.7486304	29.7642198	9
8559	133285	48972	141997	2.7216573	20.17451	9
8560	140505	119288	184313	1.1778637	40.3310949	9
8561	119595	77468	142493	1.5437987	32.9332744	9
8562	55944	13817	57625	4.0489252	13.8732308	9
8563	330851	323820	462949	1.0217127	44.3846974	9
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8619	40587	17716	44285	2.2909799	23.5810102	9
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8659	236544	208783	315505	1.1329658	41.4329	9
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8713	305492	271245	408533	1.1262585	41.6017464	9
8714	243660	147581	284869	1.6510255	31.2026363	9
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8739	96492	31595	101533	3.0540275	18.1303405	9
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8749	96552	82775	127177	1.1664391	40.606831	9
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8783	40765	22572	46597	1.8059986	28.9737606	9
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8791	180096	160303	241105	1.1234724	41.6722147	9
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8793	83733	26956	87965	3.1062843	17.8448288	9
8794	175625	155832	234793	1.127015	41.5826477	9
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8821	128935	114072	172153	1.1302949	41.5000019	9
8822	103389	62980	121061	1.6416164	31.3479335	9
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8838	40356	15317	43165	2.6347196	20.7841166	9
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9112	650324	650307	919685	1.0000261	44.9992672	9
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9314	67177	38736	77545	1.7342266	29.9688747	9
9315	44500	16059	47309	2.7710318	19.8433242	9
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9318	21543	5624	22265	3.8305477	14.6310558	9
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9722	19980	12749	23701	1.5671817	32.5414741	9
9723	9831	2600	10169	3.7811538	14.8138296	9
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9731	9443	6324	11365	1.4932005	33.8103283	9
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