

## I. Introduction to the Short Tables.

The following four tables, which contain the known prime factors of the commonly encountered numbers  $2^n \pm 1$  and  $10^n \pm 1$ , have been placed at the beginning of this book for easy reference. Prime factors are given explicitly in these tables and are thus immediately and conveniently at hand. The factorizations are presented differently here than in the main tables, where the factors of a number must usually be collected from various lines in the same or related tables. For example, in the main tables, the 17 prime factors of  $2^{120} - 1 = (2^{15} - 1)(2^{15} + 1)(2^{30} + 1)(2^{60} + 1)$  must be collected from 17 different lines in the four separate base two tables; the 11 prime factors of  $10^{70} + 1$  can all be found in Table 10+, but on 6 different lines. The short tables, of course, may also serve as a check on the reader's ability to use the main tables properly.

The notation "P $xx$ " in a line represents a prime factor with  $xx$  decimal digits, which are given explicitly in Appendix A. For example, the factorization of  $2^{269} - 1$  is given as "269 13822297.P74" in the Short 2- table. The 74 digits of the large prime factor may be found in Appendix A in the two lines which begin "74 2,269-". They appear as

6862 5988504811 7742593646  
7066155294 8915363901 8450354163 7191246347 7873783063

When there are more factors than will fit on one line, the extra factors are given on the next line (followed by the line number), the factorization being broken at a multiplication dot, which is repeated on the second line. In Short 2+, for example, the final two prime factors for line 210 are 146919792181 and 1041815865690181. Note that we use a period rather than a centered dot for multiplication.

Factorizations of  $2^n - 1$ ,  $n \leq 400$ 

$n$	Prime Factors
2	3
3	7
4	3·5
5	3 <sup>1</sup>
6	3·3·7
7	127
8	3·5·17
9	7·73
10	3·11·31
11	23·89
12	3·3·5·7·13
13	8191
14	3·43·127
15	7·31·151
16	3·5·17·257
17	131071
18	3·3·3·7·19·73
19	524287
20	3·5·5·11·31·41
21	7·7·127·337
22	3·23·89·683
23	47·178481
24	3·3·5·7·13·17·241
25	31·601·1801
26	3·2731·8191
27	7·73·262657
28	3·5·29·43·113·127
29	233·1103·2089
30	3·3·7·11·31·151·331
31	2147483647
32	3·5·17·257·65537
33	7·23·89·599479
34	3·43691·131071
35	31·71·127·122921
36	3·3·3·5·7·13·19·37·73·109
37	223·616318177
38	3·174763·524287
39	7·79·8191·121369
40	3·5·5·11·17·31·41·61681
41	13367·164511353
42	3·3·7·7·43·127·337·5419
43	431·9719·2099863
44	3·5·23·89·397·683·2113
45	7·31·73·151·631·23311

46	3.47.178481.2796203
47	2351.4513.13264529
48	3.3.5.7.13.17.97.241.257.673
49	127.443 2676798593
50	3.11.31.251.601.1801.4051
51	7.103.2143.11119.131071
52	3.5.53.157.1613.2731.8191
53	6361.69431.20394401
54	3.3.3.3.7.19.73.87211.262657
55	23.31.89.881.3191.201961
56	3.5.17.29.43.113.127.15790321
57	7.32377.524287.1212847
58	3.59.233.1103.2089.3033169
59	179951.320 3431780337
60	3.3.5.5.7.11.13.31.41.61.151.331.1321
61	230584300 9213693951
62	3.715827883.2147483647
63	7.7.73.127.337.92737.649657
64	3.5.17.257.641.65537.6700417
65	31.8191.14529 5143558111
66	3.3.7.23.67.89.683.20857.599479
67	193707721.76 1838257287
68	3.5.137.953.26317.43691.131071
69	7.47.178481.1005 2678938039
70	3.11.31.43.71.127.281.86171.122921
71	228479.48544121.212885833
72	3.3.3.5.7.13.17.19.37.73.109.241.433.38737
73	439.2298041.936 1973132609
74	3.223.1777.25781083.616318177
75	7.31.151.601.1801.100801.10567201
76	3.5.229.457.174763.524287.525313
77	23.89.127.58128364 3249112959
78	3.3.7.79.2731.8191.121369.22366891
79	2687.202029703.111 3491139767
80	3.5.5.11.17.31.41.257.61681.4278255361
81	7.73.2593.71119.262657.97685839
82	3.83.13367.164511353.8831418697
83	167.579 1261411327 5649087721
84	3.3.5.7.7.13.29.43.113.127.337.1429.5419.14449
85	31.131071.952097280 6333758431
86	3.431.9719.2099863.293 2031007403
87	7.233.1103.2089.4177.985 7737155463
88	3.5.17.23.89.353.397.683.2113.2931542417
89	6189700 1964269013 7449562111
90	3.3.3.7.11.19.31.73.151.331.631.23311.18837001
91	127.911.8191.112901153.2 3140471537
92	3.5.47.277.1013.1657.30269.178481.2796203
93	7.2147483647.65881228 8653553079
94	3.283.2351.4513.13264529.16 5768537521
95	31.191.524287.420778751.3 0327152671
96	3.3.5.7.13.17.97.193.241.257.673.65537.22253377

97	11447.138426.0723582848.5645766393
98	3.43.127.436.3953127297.443.2676798593
99	7.23.73.89.199.153649.599479.3.3057806959
100	3.5.5.5.11.31.41.101.251.601.1801.4051.8101.268501
101	743.2339208719.34111753.1003194129
102	3.3.7.103.307.2143.2857.6529.11119.43691.131071
103	2550183799.39.7665642994.1438590393
104	3.5.17.53.157.1613.2731.8191.858001.308761441
105	7.7.31.71.127.151.337.29191.106681.122921.152041
106	3.107.6361.69431.20394401.2805.9810762433
107	162.2592768292.1336339157.8010288127
108	3.3.3.3.5.7.13.19.37.73.109.87211.246241.262657.279073
109	745988807.8700.3598609872.0987332873
110	3.11.11.23.31.89.683.881.2971.3191.201961.48912491
111	7.223.321679.26295457.319020217.616318177
112	3.5.17.29.43.113.127.257.5153.15790321.5.4410972897
113	3391.23279.65993.1868569.106681.8132868207
114	3.3.7.571.32377.174763.524287.1212847.160465489
115	31.47.14951.178481.4036961.264650.7710984041
116	3.5.59.233.1103.2089.3033169.107367629.536903681
117	7.73.79.937.6553.8191.86113.121369.7830118297
118	3.2833.37171.179951.1824726041.320.3431780337
119	127.239.20231.131071.6.2983048367.13.1105292137
120	3.3.5.5.7.11.13.17.31.41.61.151.241.331.1321.61681.4562284561
121	23.89.727.1.7863938783.6316422785.8270210279
122	3.76861433.6404564651.230584300.9213693951
123	7.13367.3887047.164511353.17772225.3954175633
124	3.5.5581.8681.49477.384773.715827883.2147483647
125	31.601.1801.26.9089806001.471088316.8879506001
126	3.3.3.7.7.19.43.73.127.337.5419.92737.649657.7.7158673929
127	170141183.4604692317.3168730371.5884105727
128	3.5.17.257.641.65537.274177.6700417.6728.0421310721
129	7.431.9719.2099863.110530.3606504929.4753459639
130	3.11.31.131.2731.8191.409891.7623851.14529.5143558111
131	263.10350794.4310551623.8671861923.7468234569
132	3.3.5.7.13.23.67.89.397.683.2113.20857.312709.599479.4327489
133	127.524287.163.5372208527.2539885143.4325720959
134	3.7327657.193707721.76.1838257287.671.3103182899
135	7.31.73.151.271.631.23311.262657.348031.4997.1617830801
136	3.5.17.17.137.953.26317.43691.131071.354689.287.9347902817
137	3203221559.6496435569.54.3904218360.0204290159
138	3.3.7.47.139.178481.2796203.16.8749965921.1005.2678938039
139	562.5767248687.1238761322.0520833576.2278423601
140	3.5.5.11.29.31.41.43.71.113.127.281.86171.122921.7416361.47392381
141	7.2351.4513.13264529.4375578271.64667503.5253258729
142	3.228479.48544121.56409643.212885833.1395.2598148481
143	23.89.8191.724153.15.8822951431.578217211.3400990737
144	3.3.3.5.7.13.17.19.37.73.97.109.241.257.433.577.673.38737.48.7824887233
145	31.233.1103.2089.2679.8951577838.6281469002.7494144991
146	3.439.1753.2298041.936.1973132609.179591803.8741070627
147	7.7.7.127.337.443.2676798593.27416.7236252872.5535068727
148	3.5.149.223.593.1777.25781083.184481113.231769777.616318177

149	8665626856 6282183151.82351 0933669084 6723986161	
150	3.3.7.11.31.151.251.331.601.1801.4051.100801.10567201.113 3836730401	
151	18121.55871.165799.2332951.72890 8838338825 3664437433	
152	3.5.17.229.457.1217.148961.174763.524287.525313.2451 7014940753	
153	7.73.103.919.2143.11119.131071.755824 8842417934 7083438319	
154	3.23.43.89.127.617.683.78233.3 5532364099.58128364 3249112959	
155	31.31.311.11471.73471.2147483647.4649919401.1815 8209813151	
156	3.3.5.7.13.13.53.79.157.313.1249.1613.2731.3121.8191.21841.121369.22366891	
157	852133201.6 0726444167.165 4058017289.213438 7368610417	
158	3.2687.202029703.111 3491139767.2014 8763660243 8195784363	
159	7.6361.6679.69431.13960201.20394401.540701761.22 9890275929	
160	3.5.5.11.17.31.41.257.61681.65537.414721.4278255361.4447 9210368001	
161	47.127.1289.178481.3188767.4 5076044553.1480860771 5315782481	
162	3.3.3.3.3.7.19.73.163.2593.71119.87211.135433.262657.97685839.272010961	
163	150287.704161.110211473.2 7669118297.3623045457 0129675721	
164	3.5.83.10169.13367.181549.12112549.43249589.164511353.8831418697	
165	7.23.31.89.151.881.3191.201961.599479.20485 6883529738 0486760231	
166	3.167.499.1163.2657.155377.1 3455809771.579 1261411327 5649087721	
167	2349023.7963 8304766856 5073777786 1629608744 8490695649	
168	3.3.5.7.7.13.17.29.43.113.127.241.337.1429.3361.5419.14449.15790321.8 8959882481	
169	4057.8191.674 0339310641.3 3407622839 5239532950 6327023033	
170	3.11.31.43691.131071.952097280 6333758431.2683142303 6065352611	
171	7.73.32377.524287.1212847.93507247.30426 4563479254 1312037847	
172	3.5.173.431.9719.101653.500177.2099863.175 9217765581.293 2031007403	
173	730753.1505447.7008443 6712553223.1552 8574328857 2277679887	
174	3.3.7.59.233.1103.2089.4177.3033169.985 7737155463.9607679 1871613611	
175	31.71.127.601.1801.39551.122921.60816001.5353 4762479148 8552837151	
176	3.5.17.23.89.257.353.397.683.2113.229153.119782433.2931542417.4 3872038849	
177	7.179951.184081.2 7989941729.320 3431780337.921362408 4535989031	
178	3.179.62020897.1858477 4046020617.6189700 1964269013 7449562111	
179	359.1433.148945910 9360039866 4569401970 9543372166 4951999121	
180	3.3.3.5.5.7.11.13.19.31.37.41.61.73.109.151.181.331.631.1321.23311.54001. .18837001.29247661	180
181	43441.1164193.7648337.7923871 0972852956 2534464766 5764672671	
182	3.43.127.911.2731.8191.224771.1210483.112901153.2 3140471537.2 5829691707	
183	7.367.55633.230584300 9213693951.372017086 2530514630 3973352041	
184	3.5.17.47.277.1013.1657.30269.178481.2796203.2912800 0924361888 8211558641	
185	31.223.616318177.158785 5697992791.72488085 9928576000 1152755641	
186	3.3.7.529510939.715827883.2147483647.2903110321.65881228 8653553079	
187	23.89.131071.707983.103 2670816743 8438609988 5005627895 0666491537	
188	3.5.283.2351.3761.4513.13264529.7484047069.16 5768537521.14073 7471578113	
189	7.7.73.127.337.92737.262657.649657.1560007.2076174 8554425839 2970753527	
190	3.11.31.191.2281.174763.524287.420778751.3 0327152671.301134747 9614249131	
191	383.7068569257.3 9940132241.33258 4516519201.8727449712 4602996457	
192	3.3.5.7.13.17.97.193.241.257.641.673.65537.6700417.22253377. .1844674406 9414584321	192
193	13821503.616 5444023324 8340616559.147322653 2114531733 1353282383	
194	3.971.1553.11447.31817.110087601 8364883721.138426 0723582848 5645766393	
195	7.31.79.151.8191.121369.14529 5143558111.1343041968 4509926257 2814573351	
196	3.5.29.43.113.127.197.1 9707683773.436 3953127297.443 2676798593.498 1857697937	
197	7487.268288 0399791288 6929710867 0418919894 9048689384 5712448833	

198	3.3.3.7.19.23.67.73.89.199.683.5347.20857.153649.599479.3 3057806959. .24209 9935645987	198
199	16 4504919713.488416409 3883941177 6600490985 8632430297 7543600799	
200	3.5.5.5.11.17.31.41.101.251.401.601.1801.4051.8101.61681.268501.340801. .2787601.3173389601	200
201	7.1609.22111.193707721.76 1838257287.87 4494233974 2585794267 8833145441	
202	3.743 2339208719.34111753 1003194129.8451004001 5215293433 1135470251	
203	127.233.1103.2089.136417.121793911.11348055 5808832720 1109085605 3175361113	
204	3.3.5.7.13.103.137.307.409.953.2143.2857.3061.6529.11119.13669.26317. .43691.131071.1326700741	204
205	31.13367.2940521.164511353.7 0171342151.3 6557250655 0879718167 4078959681	
206	3.2550183799.41 5141630193.814276708 1771726171.39 7665642994 1438590393	
207	7.47.73.79903.178481.634569679.223 2578641663.1005 2678938039.4216 6482463639	
208	3.5.17.53.157.257.1613.2731.8191.858001.308761441.789198817 2627109114 3763623681	
209	23.89.524287.9480 3416684681.151234 8937147247.53469 5054132396 0232319657	
210	3.3.7.7.11.31.43.71.127.151.211.281.331.337.5419.29191.86171.106681. .122921.152041.664441.1564921	210
211	15193.6027295643 3838849161.3593875704 4958237573 8819989426 8773153439	
212	3.5.107.6361.69431.15358129.20394401.586477649.2805 9810762433.180143 9824104653	
213	7.66457.228479.48544121.212885833.284988197 2114740679.420526857 4191396793	
214	3.643.841157474 4904788148 8635567801.162 2592768292 1336339157 8010288127	
215	31.431.1721.9719.2099863.731516431.51 4851898711.2979272 8974404776 4444862191	
216	3.3.3.3.5.7.13.17.19.37.73.109.241.433.38737.87211.246241.262657.279073. .33975937.13899 1501037953	216
217	127.5209.62497.2147483647.62 6870393384 0364033151.3784 2880443142 4484082633	
218	3.104124649.745988807.8700 3598609872 0987332873.20777 5684736234 8863128179	
219	7.439.3943.2298041.936 1973132609.67116589 8617413417.48 1531461520 4347717321	
220	3.5.5.11.11.23.31.41.89.397.683.881.2113.2971.3191.201961.48912491. .41 5878438361.363 0105520141	220
221	1327.8191.131071.23654 5439841839 9772605086 2092143634 5855283986 6247069233	
222	3.3.7.223.1777.3331.17539.321679.25781083.26295457.319020217.616318177. .10777 5231312019	222
223	18287.196687.1466449.2916841.14 6949526239 8780123809.5962 4259998711 6128415063	
224	3.5.17.29.43.113.127.257.449.2689.5153.65537.15790321.183076097. .5 4410972897.35842 9848460993	224
225	7.31.73.151.601.631.1801.23311.100801.115201.617401.10567201.1348206751. .1386136 9826299351	225
226	3.227.3391.23279.48817.65993.1868569.636190001.106681 8132868207. .49100336 9344660409	226
227	2698633 3437777017.79 9217773820 5979626491 5069508677 2095354566 0121688631	
228	3.3.5.7.13.229.457.571.32377.131101.160969.174763.524287.525313.1212847. .160465489.27 5415303169	228
229	1504073.20492753.5983345 7464970183.467795120 1875837235 3428000034 8743236593	
230	3.11.31.47.691.14951.178481.2796203.4036961.1884103651.34576 7385170491. .264650 7710984041	230
231	7.7.23.89.127.337.463.599479.58128364 3249112959. .4982 3976511782 5615133830 2204762057	231
232	3.5.17.59.233.1103.2089.59393.3033169.107367629.536903681. .822801951 6714411983 2390568177	232
233	1399.135607.622577.1168681 2987907760 0270344856 3247662600 8506653285 3492178431	
234	3.3.3.7.19.73.79.937.2731.6553.8191.86113.121369.22366891.7830118297. .53 0230622637 0307681801	234
235	31.2351.4513.13264529.2391314881.7 2296287361. .73202 3003951580 0584547353 7146974751	235

236	3·5·1181·2833·3541·37171·157649·174877·179951·5521693·1824726041· .10 4399276341·320 3431780337	236
237	7·1423·2687·49297·202029703·111 3491139767·2372882351 2345609279· .3135737341 7090093431	237
238	3·43·127·239·20231·43691·131071·823679683·6 2983048367·13 1105292137· .1 4316255316 5560959297	238
239	479·1913·5737·176383·134000609· .711000871 7824458123 1050142792 5375409686 3768062879	239
240	3·3·5·5·7·11·13·17·31·41·61·97·151·241·257·331·673·1321·61681·394783681· .4278255361·4562284561·4 6908728641	240
241	22000409·160619 4743723522 8941273750 8720216839 2258056563 2899087995 3332340439	
242	3·23·89·683·727·117371·110541845 8279780045 5736061107· .1 7863938783 6316422785 8270210279	242
243	7·73·487·2593·71119·262657·97685839·1675 3783618801·19297 1705688577· .371299016 3251158343	243
244	3·5·733·1709·3456749·36 8140581013·66 7055378149·76861433 6404564651· .230584300 9213693951	244
245	31·71·127·1471·122921·443 2676798593· .25235990 2034571016 8562142988 5170852973 8525821631	245
246	3·3·7·83·739·13367·165313·3887047·164511353·8831418697·1319431 7913029593· .17772225 3954175633	246
247	8191·15809·524287·645 9570124697·40200 4106269663· .1282 8161176172 6506045349 6956212169	247
248	3·5·17·5581·8681·49477·290657·384773·715827883·2147483647·3770202641· .11 4162918040 1976895873	248
249	7·167·1621324657·579 1261411327 5649087721· .8241594690 1671373595 5227441843 2855740327	249
250	3·11·31·251·601·1801·4051·229668251·26 9089806001·471088316 8879506001· .55 1948541833 6288303251	250
251	503·54217·1 7823028721 4063289511·616 7688219869 5257501367· .120703 9617824989 3039969681	251
252	3·3·3·5·7·7·13·19·29·37·43·73·109·113·127·337·1429·5419·14449·92737· .649657·4 0388473189·7 7158673929·11 8750098349	252
253	23·23·47·89·178481·4103188409·1999 5773632843 5366769577· .44 6677117627 9779840303 9426178361	253
254	3·56713727 8201564105 7722910123 8628035243· .170141183 4604692317 3168730371 5884105727	254
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## Short 2—

## Prime Factors

xx

294	3.3.7.7.7.43.127.337.5419.748819.436 3953127297.443 2676798593. .2603288584 5392093851.27416 7236252872 5535068727	294
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377	233.1103.2089.5279.8191.148055441.359661017.P81	
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386	3.6563.13821503.35679139.1871670769.745509 9975844049. .12 8076133738 8845898643.616 5444023324 8340616559. .147322653 2114531733 1353282383	386
387	7.73.431.9719.2099863.11492353.2276 3003975641.68340 4033534957 8249140287. .110530 3606504929 4753459639.3 5489505810 9826355908 4652467359	387
388	3.5.389.971.1553.3881.4657.5821.11447.31817.3555339061.4959325597. .39 4563864677.1763 7260034881.110087601 8364883721. .138426 0723582848 5645766393	388
389	56478911.4765678679.P100	
390	3.3.7.11.31.79.131.151.331.2731.8191.107251.121369.409891.7623851.22366891. .14529 5143558111.5714 0392112607 6957182161.1343041968 4509926257 2814573351	390
391	47.37537.131071.178481.2580624 8225716242 8454918322 4489963592 7231330561. .47352 9906275104 7834629348 9474767666 4271002855 2319600543	391
392	3.5.17.29.43.113.127.197.7057.273617.1007441.15790321.375327457.1 9707683773. .140 5628248417.436 3953127297.443 2676798593.498 1857697937.36456 5561997841	392
393	7.263.36093121.51118297.58352641.10350794 4310551623 8671861923 7468234569. .98333 0461445530 2578430964 2808939555 1222341502 8355534287	393
394	3.7487.19 7002597249.134895935 2853811313.2519515738 6725301225 9144010843. .268288 0399791288 6929710867 0418919894 9048689384 5712448833	394
395	31.2687.12641.202029703.5435488351.1 6203007441.111 3491139767. .3868132159 6249165469 0527257306 3237265865 9771994032 1344865278 2202624081	395
396	3.3.3.5.7.13.19.23.37.67.73.89.109.199.397.683.2113.5347.20857.42373. .153649.235621.312709.599479.4327489.3 3057806959.846 3901912489. .1597 5607282273.24209 9935645987	396
397	2383.6353.50023.53993.202471.5877983.8141328728 0852258794 0886856743. .1 2349042135 7600027254 2841146073.6 5974859102 7032651990 0042655193	397
398	3.16 4504919713.488416409 3883941177 6600490985 8632430297 7543600799. .2678230073 7649837925 6993682056 8604337537 0049896379 8805883563	398
399	7.7.127.337.32377.73417.83791.524287.1212847. .163 5372208527 2539885143 4325720959. .297246 1473987634 4125010817 4337037758 7796038883 8436140673	399
400	3.5.5.5.11.17.31.41.101.251.257.401.601.1601.1801.4051.8101.25601.61681. .268501.340801.2787601.82471201.3173389601.4278255361. .432 3632031270 0288550654 3172618401	400

Short 2+

# Factorizations of $2^n + 1, n \leq 400$

$n$	Prime Factors
1	3
2	5
3	3·3
4	17
5	3·11
6	5·13
7	3·43
8	257
9	3·3·3·19
10	5·5·41
11	3·683
12	17·241
13	3·2731
14	5·29·113
15	3·3·11·331
16	65537
17	3·43691
18	5·13·37·109
19	3·174763
20	17·61681
21	3·3·43·5419
22	5·397·2113
23	3·2796203
24	97·257·673
25	3·11·251·4051
26	5·53·157·1613
27	3·3·3·3·19·87211
28	17·15790321
29	3·59·3033169
30	5·5·13·41·61·1321
31	3·715827883
32	641·6700417
33	3·3·67·683·20857
34	5·137·953·26317
35	3·11·43·281·86171
36	17·241·433·38737
37	3·1777·25781083
38	5·229·457·525313
39	3·3·2731·22366891
40	257·4278255361
41	3·83·8831418697
42	5·13·29·113·1429·14449
43	3·293·2031007403
44	17·353·2931542417

45	3.3.3.11.19.331.18837001
46	5.277.1013.1657.30269
47	3.283.16 5768537521
48	193.65537.22253377
49	3.43.43 <sup>6</sup> 3953127297
50	5.5.5.41.101.8101.268501
51	3.3.307.2857.6529.43691
52	17.858001.308761441
53	3.107.2805 9810762433
54	5.13.37.109.246241.279073
55	3.11.11.683.2971.48912491
56	257.5153.5 4410972897
57	3.3.571.174763.160465489
58	5.107367629.536903681
59	3.2833.37171.1824726041
60	17.241.61681.4562284561
61	3.76861433 6404564651
62	5.5581.8681.49477.384773
63	3.3.3.19.43.5419.7 7158673929
64	274177.6728 0421310721
65	3.11.131.2731.409891.7623851
66	5.13.397.2113.312709.4327489
67	3.7327657.671 3103182899
68	17.17.354689.287 9347902817
69	3.3.139.2796203.16 8749965921
70	5.5.29.41.113.7416361.47392381
71	3.56409643.1395 2598148481
72	97.257.577.673.48 7824887233
73	3.1753.179591803 8741070627
74	5.149.593.184481113.231769777
75	3.3.11.251.331.4051.113 3836730401
76	17.1217.148961.2451 7014940753
77	3.43.617.683.78233.3 5532364099
78	5.13.13.53.157.313.1249.1613.3121.21841
79	3.2014 8763660243 8195784363
80	65537.414721.4447 9210368001
81	3.3.3.3.3.19.163.87211.135433.272010961
82	5.10169.181549.12112549.43249589
83	3.499.1163.2657.155377.1 3455809771
84	17.241.3361.15790321.8 8959882481
85	3.11.43691.2683142303 6065352611
86	5.173.101653.500177.175 9217765581
87	3.3.59.3033169.9607679 1871613611
88	257.229153.119782433.4 3872038849
89	3.179.62020897.1858477 4046020617
90	5.5.13.37.41.61.109.181.1321.54001.29247661
91	3.43.2731.224771.1210483.2 5829691707
92	17.2912800 0924361888 8211558641
93	3.3.529510939.715827883.2903110321
94	5.3761.7484047069.14073 7471578113
95	3.11.2281.174763.301134747 9614249131

96	641.6700417.1844674406 9414584321
97	3.971.1553.31817.110087601 8364883721
98	5.29.113.197.1 9707683773.498 1857697937
99	3.3.3.19.67.683.5347.20857.24209 9935645987
100	17.401.61681.340801.2787601.3173389601
101	3.8451004001 5215293433 1135470251
102	5.13.137.409.953.3061.13669.26317.1326700741
103	3.41 5141630193.814276708 1771726171
104	257.789198817 2627109114 3763623681
105	3.3.11.43.211.281.331.5419.86171.664441.1564921
106	5.15358129.586477649.180143 9824104653
107	3.643.841157474 4904788148 8635567801
108	17.241.433.38737.33975937.13899 1501037953
109	3.104124649.20777 5684736234 8863128179
110	5.5.41.397.2113.41 5878438361.363 0105520141
111	3.3.1777.3331.17539.25781083.10777 5231312019
112	449.2689.65537.183076097.35842 9848460993
113	3.227.48817.636190001.49100336 9344660409
114	5.13.229.457.131101.160969.525313.27 5415303169
115	3.11.691.2796203.1884103651.34576 7385170491
116	17.59393.822801951 6714411983 2390568177
117	3.3.3.19.2731.22366891.53 0230622637 0307681801
118	5.1181.3541.157649.174877.5521693.10 4399276341
119	3.43.43691.823679683.1 4316255316 5560959297
120	97.257.673.394783681.4278255361.4 6908728641
121	3.683.117371.110541845 8279780045 5736061107
122	5.733.1709.3456749.36 8140581013.66 7055378149
123	3.3.83.739.165313.8831418697.1319431 7913029593
124	17.290657.3770202641.11 4162918040 1976895873
125	3.11.251.4051.229668251.55 1948541833 6288303251
126	5.13.29.37.109.113.1429.14449.4 0388473189.11 8750098349
127	3.56713727 8201564105 7722910123 8628035243
128	5964958 9127497217.57 0468920068 5129054721
129	3.3.1033.1591582393.293 2031007403.1568 6603697451
130	5.5.41.53.157.521.1613.51481.34110701.10814 0989558681
131	3.1049.4744297.1823311286 8120778178 4391813611
132	17.241.353.7393.1761345169.2931542417.9 8618273953
133	3.43.4523.174763.1067882904 4384829528 4382097033
134	5.269.15152453.42875177.2559066073.973 9278030221
135	3.3.3.3.11.19.331.811.15121.87211.18837001.38583 8642647891
136	257.383521.236 8179743873.3 7320072247 0799764577
137	3.1097.15619.3212796 3626435681.10549821 2027592977
138	5.13.277.1013.1657.30269.541 5624023749.7033 4392823809
139	3.4506937.51542 6395246617 9530007417 4250365699
140	17.61681.15790321.841798420 7765786201 1867889681
141	3.3.283.1681003.3 5273039401.11 1349165273.16 5768537521
142	5.569.148587949.4999465853.5585522857.47 2287102421
143	3.683.2003.2731.6156182033.1 0425285443.1550 0487753323
144	193.1153.6337.65537.22253377.3 8941695937.27 8452876033
145	3.11.59.3033169.7553921.9998028 5472471530 0883845411
146	5.293.9929.64930 1712182209.94 4473296560 1851473921
147	3.3.43.5419.748819.436 3953127297.2603288584 5392093851

148	17.2098 8936657440 5864861512 6425661022 2593863921
149	3.1193.650833.38369587.79845595 7350425985 6359124657
150	5.5.5.13.41.61.101.1201.1321.8101.63901.268501.13334701.1182468601
151	3.1871 7738334417.50 8340508241 0077967730 6460621499
152	257.27361.6939446 0463940481.116 9955781771 7358904481
153	3.3.3.19.307.2857.6529.43691.123931.2 6159806891.2743 9122228481
154	5.29.113.397.2113.8317.869467061.3019242689.7609 6559910757
155	3.11.11161.715827883.594760 3221397891.2912605 6043168521
156	17.241.858001.308761441.841593759 4876209925 4554456081
157	3.15073.2350291.1775178 3757817897.9683329919 8971305921
158	5.317.3 8136461186 6507317969.6044 6290980621 5075725313
159	3.3.107.6043.2805 9810762433.44751303 6651810208 4427698737
160	641.3602561.6700417.94 4556849534 8456305599 1838558081
161	3.43.2796203.8103467492 7597923271 4980036156 4410265219
162	5.13.37.109.246241.279073.3618757.106979941.168410989.4977454861
163	3.1 1281292593.102339 8150341859.3375 7054705039 0415041769
164	17.13121.8562191377.12243 8641224656 1215510639 2056552353
165	3.3.11.11.67.331.683.2971.20857.48912491.415365721.225212 7523412251
166	5.997.13063537.4 6202197673.20 9957719973.14806719 7374074653
167	3.6235740319 2785191176 6905528625 6140883865 3121833643
168	97.257.673.2017.5153.2 5629623713.5 4410972897.153859 5959564161
169	3.2731.492991076 4223610387.185262386 4601108673 2742614043
170	5.5.41.137.953.1021.4421.26317.550801.23650061.722690435 2843746841
171	3.3.3.19.19.571.174763.160465489.19 1774583879 4026811634 9766612211
172	17.3855260977.6408215 0767423457.14253 4327510312 6327372769
173	3.347.4153.3 5374479827.4 7635010587.16434 6424772818 9221623609
174	5.13.349.29581.107367629.536903681.2 7920807689.2217021 4192500421
175	3.11.43.251.281.1051.4051.86171.110251.34 7833278451.3401003 2331525251
176	65537.5304641.27 5509565477 8488426047 7762382801 1666349761
177	3.3.2833.13099.37171.1824726041.445 3762543897.189868549 6465999273
178	5.1069.5790 1779199499 9956106149.1237940 0392854506 4364330189
179	3.5 8745093521.434 7868190665 8793734959 5056277570 7707143803
180	17.241.433.38737.61681.4562284561.16 8692292721.46977549 5062434961
181	3.1811.31675363.1781 0163630112 6245793428 1173397808 5990447907
182	5.29.53.113.157.1093.1093.1613.4733.886108 5190774909.55633852 5912325157
183	3.3.76861433 6404564651.1772303 9943798878 2976979507 7302561451
184	257.4 3717618369.54967540 8461419937.39702 9956747290 2879791777
185	3.11.1481.1777.25781083.28136651.778 4293653978 8760854061 8330873281
186	5.13.373.5581.8681.49477.384773.95108 8215727633.461154528 3086450689
187	3.683.43691.219116582 5376888084 7501577164 2457906201 5865776131
188	17.1198107457.2 3592342593.450194 6625921233.1 8135230685 2476069537
189	3.3.3.3.19.43.379.5419.87211.119827.7 7158673929.12 7391413339.5620 2143607667
190	5.5.41.229.457.761.54721.525313.27669663 1250953741.241692362 0660807201
191	3.10461836 2256444679 3972631570 5346110693 5039257407 7339085483
192	769.274177.6728 0421310721.442499 8269453035 9355647316 4314770689
193	3.6563.35679139.1871670769.745509 9975844049.12 8076133738 8845898643
194	5.389.3881.4657.5821.3555339061.4959325597.39 4563864677.1763 7260034881
195	3.3.11.131.331.2731.107251.409891.7623851.22366891.5714 0392112607 6957182161
196	17.7057.273617.1007441.15790321.375327457.140 5628248417.36456 5561997841
197	3.19 7002597249.134895935 2853811313.2519515738 6725301225 9144010843
198	5.13.37.109.397.2113.42373.235621.312709.4327489.846 3901912489.1597 5607282273
199	3.2678230073 7649837925 6993682056 8604337537 0049896379 8805883563



200	257.1601.25601.82471201.4278255361.432 3632031270 0288550654 3172618401	
201	3.3.2011.9649.6324667.7327657.671 3103182899.591515 4911853267 6874448563	
202	5.809.9491060093.521 8735279937.60050 3817460697.5342503736 3873248657	
203	3.43.59.3033169.596834617.3692022713.252 7158146155 6596241868 8965855731	
204	17.17.241.8161.354689.40932193.146 7129352609.287 9347902817.73753 9985835313	
205	3.11.83.8831418697.212582056 3389437533 3902438938 3459784675 7304863651	
206	5.41201.17325013.520379897.47300015 7711296729.1170 7009745765 6623005977	
207	3.3.3.19.139.2796203.16 8749965921.6113142872 4042278348 4044389824 1613032969	
208	65537.928513.1 8558466369.2 3877647873.2131 6654212673.71566847 0267111297	
209	3.419.683.174763.34 1062328465 4639440707.1 6077920187 8039402409 5514317003	
210	5.5.13.29.41.61.113.421.1321.1429.14449.7416361.47392381.14 6919792181. .104181 5865690181	210
211	3.4643.9878177.5344743097.19 9061567251.22 4811275125 7517586423 4185190299	
212	17.1692645313.109 2051360401 8498900801.20 9460015914 2901219928 1424246257	
213	3.3.5113.17467.102241.56409643.1395 2598148481.2035255457 6630130693 3226271929	
214	5.857.843589.817 4912477117.2352 8569104401.378668090 6166005726 4219253397	
215	3.11.9084611.293 2031007403.5990 4608378705 6613774301 8260871169 8924130721	
216	97.257.577.673.209924353.4261383649.48 7824887233.249290 6081826536 0451708193	
217	3.43.16233337.715827883.14050860 8590164280 2259342330 9886684274 5808905947	
218	5.5669.666184021.7432 3515777853.174651885 2140345553.1 7185764601 2809566969	
219	3.3.1753.907019 7542196643.179591803 8741070627.32782446 9015622243 4135906137	
220	17.353.61681.109121.148721.2931542417.3404676001.1103 5465708081. .254671 7317681681	220
221	3.443.2731.43691.471 4692062809.450 7513575406 4465158454 0145836674 1487526913	
222	5.13.149.593.3109.184481113.231769777.1398316729.4345052821. .14 5303029800 1690873541	222
223	3.21 9256122131.204934 9592090504 3950407650 4509181712 6031830315 4708405513	
224	641.6700417.1677 7388527684 9215533569.37414 0571613223 7595740814 8834323969	
225	3.3.3.11.19.251.331.4051.18837001.4714696801.113 3836730401. .2819414 7295371017 7758647201	225
226	5.58309.2362153.150 7911621390 1326178369.10384 5937170696 5511294580 4582584321	
227	3.297371.345463157 9714210387.6998 2170658265 4447131175 4525871203 1103399659	
228	17.241.1217.90289.148961.9036489073.2451 7014940753. .290340571 6492099337 9000074993	228
229	3.18754643.15 3334171410 0379433916 4342447265 4261588519 4618245196 3484372297	
230	5.5.41.277.461.1013.1657.5981.30269.15096281.1021622741.7834788541. .3 5900691276 5190408181	230
231	3.3.43.67.617.683.5419.14323.20857.78233.3 5532364099. .70 1807961652 7704034924 5703851057	231
232	257.929.5569.8353.39594977.1569460400 6012505869 8512211693 6559405063 7743819041	
233	3.467.27961.352 3693740136 6013947257 4531568890 6781550405 6300762074 2839120913	
234	5.13.13.37.53.109.157.313.1249.1613.3121.7489.21061.21841.348661. .111 2388285061.37024440 5487013669	234
235	3.11.283.16 5768537521.32 8006342451.46179790 7949997211. .2354573 7451009211 5086834691	235
236	17.1889.11329.84961.765373489.466781343 9458532797 3927972315 1768042279 5032583489	
237	3.3.647011.13664473.2014 8763660243 8195784363. .13775 6946928984 9218474470 9216599873	237
238	5.29.113.137.953.2381.9521.26317.42841.823481.53629 6539263941. .182928 9898415691 6156396101	238
239	3.340337.326051 4298370422 1670173899.2 6537037220 9921127851 7485616123 9437662001	
240	193.23041.65537.414721.22253377.4447 9210368001. .14768 7843070090 6164431823 6958041601	240

241	3.2411.104111181203.15059828108442641. .3115949925222900514664736941746248477210667	241
242	5.397.2113.3389.91961.4036962584010807014809213. .1339272539833668386958920468400193	242
243	3.3.3.3.3.19.163.1459.87211.135433.139483.272010961. .10429407431911334611.918125051602568899753	243
244	17.977.37831175201.4889940029309876547089.9200725871078697500072796227876997617	244
245	3.11.43.281.491.86171.4363953127297.15162868758218274451. .50647282035796125885000330641	245
246	5.13.2953.10169.181549.12112549.43249589.802333429.6027043735173469. .125965976976392564317	246
247	3.2731.174763.207481.10049443.355011619. .213379941663827592701819558102368170760508803	247
248	257.8929.197107422273014301919781414466039325387889623676342705850752210599969	248
249	3.3.499.1163.2657.155377.13455809771.9202419446683. .3388098290567587377052016525627948593	249
250	5.5.5.5.41.101.7001.8101.28001.96001.268501.3775501. .47970133603445383501.94291866932171243501	250
251	3.238451.5058345723951854688505665428846313806490903121677364358901199128608233	251
252	17.241.433.1009.3361.21169.38737.2627857.15790321.269389009.88959882481. .1475204679190128571777	252
253	3.683.4049.85009.2796203.31797547.81776791273. .2822551529460330847604262086149015242689	253
254	5.509.18797.26417.72118729.140385293.2792688414613.8988357880501. .90133566917913517709497	254
255	3.3.11.307.331.2857.6529.12241.43691.418562986357561. .26831423036065352611.51366149455494753931	255
256	1238926361552897.93461639715357977769163558199606896584051237541638188580280321	256
257	3.37239639534523.518144156602508243009. .4000659204579114753312310878847043394855313	257
258	5.13.173.17029.46957.101653.500177.1759217765581.96758771543686753. .5951631966296685834686149	258
259	3.43.1777.25781083.1456235596904319041738812533139. .107636344217840413139193500838915409	259
260	17.42641.61681.858001.5746001.308761441.2400573761.65427463921. .173308343918874810521923841	260
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262	5.269665073.642811237.2745098189.810791440841.12450751815271172041. .308544695409769427309	262
263	3.1579.92051.29261114397558193. .1161625406204540347970098063703363946902736086742697099	263
264	97.257.673.229153.119782433.43872038849.16875081675650881. .86945388997210442828259494992321	264
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266	5.29.113.229.457.1597.2129.525313.126848469231149.679253585011429. .449329386292232535250647435097	266
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268	17.75041.333808138537249. .1113767094422199900605896348724787045161997478687751948513969	268
269	3.424255915796187428893811. .745280352191786358209397071708329198285057832384965565161	269
270	5.5.13.37.41.61.109.181.541.1321.30241.49681.54001.246241.279073.29247661. .165041853060421.166242935471754241	270

## Short 2+

## Prime Factors

xxx

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273	3.3.43.547.2731.5419.224771.1210483.22366891.2 5829691707.10 5310750819. .2926531131 4715720577 9127526827	273
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275	3.11.11.251.683.2971.4051.48912491. .1 6571548087 5502181882 0630633083 4006188611 3557440895 5395309601	275
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277	3.2579 2643401363. .3138280009 3996790173 4463105154 2622769205 8771349538 4512820233 4345822857	277
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279	3.3.3.19.26227.529510939.715827883.2903110321.11 9232435043. .8538 4915399027.64443 6537614061 1199022187	279
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281	3.563.5203536083. .44 2079688503 1728601766 0721775242 4068059658 8646159653 4138464710 7224486419	281
282	5.13.1129.3761.5641.1768141.54865357.7484047069.18 0846660913. .14073 7471578113.2700 9726848416 7653999069	282
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288	641.3457.816769.6700417.1844674406 9414584321.15 6298590135 0085709953. .14223467 3897585364 4793916289	288
289	3.43691.72251.79187.1077971.1836 0250452977.19776680 3208315851. .338858 7330655984 0135519553 9629373089	289
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298	5.1789.1 2961064789.1464 1916303149.272433866 0239558843 7243602121. .11011 8089519717 4591531324 2336927641	298
299	3.2393.2731.2796203.83449 0119087067. .22 2634853434 3568341269 3923533443 9170326131 5794314607 7977190561	299

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313	3.P94	
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316	17.504337.994769.P83	
317	3.326330579.49198112 2308467411. .554346309 1988411897 3820024772 5749800421 1566855787 0254543923 0498849139	317
318	5.13.10177.207973.15358129.586477649.180143 9824104653. .300074 5925439318 1618012897.79718620 0486710330 3293462593	318
319	3.59.683.3033169.12 1333341977.16952351 4238420211. .259255 1649443838 2632167017.5 4618593734 9808777105 3790065009	319
320	274177.286721.446960641.9 6645260801.6728 0421310721.344240405 1886487041. .2715 8620059314 0659941957 5483412481	320
321	3.3.643.154723.2 0636399209.4806 2571001539 4052365153. .57187 6196978869 7451457489.841157474 4904788148 8635567801	321
322	5.29.113.277.1013.1657.1933.3221.30269.169373.298817.209160253. .11 5927640417.1 7935157473 6387915177.270 3702811844 8801270021	322
323	3.43691.174763.1779583090 8608814443.32 1158605463 9813621611. .63 1995764203 3539607139.20652 5587851947 5622261353	323
324	17.241.433.1297.3889.38737.30433969.33975937.1164777409.371 8266498433. .13492 1168163073.13899 1501037953.117402 9487714513	324
325	3.11.131.251.2731.3251.4051.409891.5840251.7623851.781 2610577851. .986094 2209386451.1245 6609072141 6978192656 1543788801	325
326	5.653.9781.7807049.4826612561.97161 3420158567 9932947173. .1169201309 8647223345 6294834974 3354261576 4159168513	326
327	3.3.666427.104124649.6927735019.20777 5684736234 8863128179. .3041402847 0765822165 9765815081 6186643260 2988327347	327
328	257.1223 9719573537.1809392703 9368350337.2539452441 5842506913. .37832 1539354637 5954710134 8940698390 3120592833	328
329	3.43.283.659.16 5768537521.76239 4321774681. .359687 4243779617 1475089176 3743933975 3349592001 0375948584 0227631801	329

330	5.5.13.41.61.397.661.1321.2113.3301.8581.312709.4327489.39 1249826881. .41 5878438361.363 0105520141.1212 7627350301.1337 9250952981	330
331	3.5297.2983001129.7520796641.85306742 5084227471 7434530683. .143839019 9144030563 3648068637 0451018942 9516419097	331
332	17.11953.1476 7689550320 1728087421 7482806234 7720350769. .29 1554779734 3721112173 4464826285 2905777597 9692132113	332
333	3.3.3.19.1777.3331.17539.304363.25781083.985 3387597819.10777 5231312019. .3103132 0083857011.1 2705931446 4650523301 3326197403	333
334	5.75005713.2739532 5377910797.182082 6078119015 6536114609. .1 8707220957 8355573530 0716392448 7111268189 2570202113	334
335	3.11.93131.7327657.671 3103182899.P75	335
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337	3.21569.5333388961.96409 4242760707. .84 1462035388 4002547092 0013080114 0475354660 3219833407 0924679705 8685767257 337	337
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339	3.3.227.48817.156619.28448881.636190001.49100336 9344660409. .80676 7008285880 2084066104 0633174106 3631088159 0473931569	339
340	17.17.1361.61681.354689.12717361.139 2971637361.287 9347902817. .80 8822074662 7020943841.630 8949053951 4352822182 6310327361	340
341	3.683.647219.1434929.715827883.3736 8615235403. .88001 3382343267 0069531598 6454582272 5863557823 1014418804 7003818403	341
342	5.13.37.109.229.457.25309.131101.160969.525313.4598533.5675149.39291697. .27 5415303169.9946 3730244517.414356 0637122783 5355919073	342
343	3.43.2513690593.436 3953127297.288358003 0222424891. .4 3911158594 9501945221 0297067047 1807966748 6165417704 8737558611	343
344	257.4129.P98	344
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346	5.1 3625405957.715 2893721041.1673815085 1865747003 2217423206 9942181681. .17 5739665310 5057529688 7774035031 3227534889	346
347	3.P104	347
348	17.241.59393.82129.1038947 6529713761.593 7202117116 4475019217. .5652 8819562467 8452623377.822801951 6714411983 2390568177	348
349	3.131282633.P97	349
350	5.5.5.29.41.101.113.701.8101.268501.7416361.47392381. .2430 0659246935 1719855032 2751963101.1038213 7934478419 4090829335 5871461401	350
351	3.3.3.3.19.2731.87211.22366891.53 0230622637 0307681801. .42477 1330322455 2237738169.2 4841125429 0515850625 3896175126 9988364169	351
352	641.1409.1258753.6700417.4 4199554137 8330835457. .2724766 0046495954 3415724134 3741767729 1568912064 2291857021 1139111809	352
353	3.3803909 5720787468 3729509405 1706948091. .1607818533 3844857077 0784283714 6335251451 1620177625 1955702995 5613946641	353
354	5.13.709.1181.3541.12037.31153.157649.174877.5397793.5521693.94789873. .10 4399276341.2084785 8316750657.29952400 8711790907 8735942093	354
355	3.11.56409643.1395 2598148481.1552463 5883992211. .182013944 0299162539 8485059929 0949064721 0895874589 0680991855 2581277361	355
356	17.P106	356
357	3.3.43.307.2857.5419.6529.43691.428401.823679683.1 4316255316 5560959297. .110 7523122161 8592513745 7604662074 3436324958 8723425331	357
358	5.31815461.1301260549.4 1611501383 0990336221.115757 0933663659 5278866333. .58885 0381287433 0282790841 1047440018 1861465037	358
359	3.3536450843.111067 1633637523.1 9419397456 3158088483. .513 1663047139 9975121756 0795536588 3672489250 4352778204 2775106649	359

- 360 97.257.577.673.8369281.394783681.4278255361.4 6908728641.48 7824887233.  
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- 361 3.174763.687 4301617534 8275093505 7576845435 6245025403.  
.1 3032541164 6110869726 8759335821 5858608970 0841594672 0083246259 361
- 362 5.9413.2873.9737348957.17892 5762979037.383053 8323149121.  
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- 363 3.3.67.683.2179.20857.117371.1948 8182484739.110541845 8279780045 5736061107.  
.3969926664 5852731908 2713961772 9892812435 5765422009 363
- 364 17.858001.15790321.308761441.59391 4915675537.  
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- 365 3.11.1753.581874971.179591803 8741070627.498 3860557465 3477927323 1850742131.  
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- 366 5.13.733.1709.3456749.5080081.36 8140581013.66 7055378149.420 9508589941.  
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- 367 3.2203.19819.14626 4881313513.2083706288 5084633147.  
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- 368 65537.7639 2570609857.1335 5703465746 3136395439 0476479681.  
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- 369 3.3.3.19.83.739.18451.165313.174907.8831418697.2630 9368807003.  
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- 370 5.5.41.149.593.29246281.184481113.231769777.567471221.1392776941.  
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- 371 3.43.107.2805 9810762433.1835194 5672220987.104718 4633680244 0580575859.  
.903389 0180249079 3533882683.7153028 9557450198 7260955609 371
- 372 17.241.1489.29761.290657.3770202641.2241539 8357688737.  
.11 4162918040 1976895873.188944042 5670100451 9961801954 4265113096 6948029537 372
- 373 3.60427.69457949 7316894264 4256612436 5980637197 2188318857.  
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- 374 5.137.397.953.2113.5237.26317.551353793.2 6509131221.181 9762572673.  
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- 375 3.3.11.251.331.2251.4051.229668251.113 3836730401.55 1948541833 6288303251.  
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- 376 257.3308801.3853249.4 8707339993 9357470433.1638 7553063670 2837695009.  
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- 378 5.13.29.37.109.113.757.1429.14449.246241.279073.4 0388473189.11 8750098349.  
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- 379 3.1501 2732261073.7280409237 2182169758 6308784409.  
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- 380 17.1217.61681.148961.2451 7014940753.3435950 2103163357 2415775800 0789490561.  
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- 381 3.3.3049.3825718 4231365987.56713727 8201564105 7722910123 8628035243.  
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- 382 5.3821.25212001.5972216269.8961 8875387061.  
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- 383 3.13517 1073178598 1752792617.56091 2281791431 3723820539.  
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- 384 5964958 9127497217.57 0468920068 5129054721.3496218393 2692179569 4385454593.  
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- 385 3.11.11.43.281.617.683.2971.78233.86171.48912491.219980531.3 5532364099.  
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- 386 5.773.3089.148997.1440203064 4704405877.6 3528368960 3233836449.  
.3787913000 2708963567 7652285973.25564 7743603632 1274038224 7547878573 386

## Short 2+

## Prime Factors

xxxiv

387	3.3.3.19.1033.1591582393.293 2031007403.1568 6603697451. .1090536789 6894030236 4939183451. .7451156 8294243628 8633065028 2569882523 9868474219 387
388	17.25507121.P109
389	3.107 4456464321.136937 9108017267.274209 4407638203.P75
390	5.5.13.13.41.53.61.157.313.521.1249.1321.1613.2341.3121.21841.51481. .468781.34110701.723447661.10814 0989558681. .892527 8993793241.7204 5377242751 8446437641 390
391	3.2347.43691.1578859.2796203.194902553.29143833 4156037699. .2911194824 8642861801.22 4571405277 1430777876 1430067868 3897932954 9117936841 391
392	257.3137.5153.50177.101921.258721.5 4410972897.P83
393	3.3.787.1049.4744297.1823311286 8120778178 4391813611. .7237 4970654455 4305500305 7643920459. .43 3685074806 8862980289 1926711765 5888254843 393
394	5.4729.52009.1079423677.15 2874915601.51480 3697091705 0130439411 8553664009. .38621 6338580579 8697201354 7951946615 1272644136 4448411929 394
395	3.11.5531.1415681.2014 8763660243 8195784363.P85
396	17.241.353.433.7393.38737.1761345169.2931542417.9 8618273953.31 1712063697. .5 6695862294 8012073585 6356719714 1118195727 7548591444 4634179633 396
397	3.13499.321571.476401.17414009.P97
398	5.797.7655 4648784441.209907 3106303095 0253038854 6087971791 8033130293. .10081167 1534441046 1444141839 6101802392 2317850375 1442552629 398
399	3.3.43.571.4523.5419.63841.174763.160465489.113556903 2520567138 0495907537. .1067882904 4384829528 4382097033.109 8012961987 4039209485 8844294643 399
400	65537.414721.4447 9210368001.339942637 7632056001.48504 8422208437 1979240001. .1295 4118820893 5646963818 8447165919 8620897441 0651257601 400

Factorizations of  $10^n - 1$ ,  $n \leq 150$ 

$n$	Prime Factors
1	3·3
2	3·3·11
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- 135  $3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot 31 \cdot 37 \cdot 41 \cdot 271 \cdot 757 \cdot 238681 \cdot 333667 \cdot 1577071 \cdot 2906161 \cdot 16357951 \cdot$   
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 $\cdot 483418418 \cdot 5972206772 \cdot 3851735391 \cdot 5231961831 \quad 135$
- 136  $3 \cdot 3 \cdot 11 \cdot 73 \cdot 101 \cdot 103 \cdot 137 \cdot 4013 \cdot 2071723 \cdot 28559389 \cdot 152533657 \cdot 1491383821 \cdot$   
 $\cdot 5363222357 \cdot 2 \cdot 1993833369 \cdot 232455 \cdot 7465671829 \cdot$   
 $\cdot 6555274617188258 \cdot 3264230070 \cdot 8688843668 \cdot 7780323722 \cdot 2654400793 \quad 136$
- 137  $3 \cdot 3 \cdot 2467 \cdot 2535528323 \cdot 10298 \cdot 7975692876 \cdot 2117455431 \cdot 1401758 \cdot 9416299060 \cdot 9843314797 \cdot P74$
- 138  $3 \cdot 3 \cdot 3 \cdot 7 \cdot 11 \cdot 13 \cdot 37 \cdot 47 \cdot 139 \cdot 277 \cdot 2531 \cdot 31051 \cdot 14357 \cdot 4021480139 \cdot 20386 \cdot 4078068831 \cdot$   
 $\cdot 54979 \cdot 7184491917 \cdot 111 \cdot 1111111111 \cdot 1111111111 \cdot 246494 \cdot 4534764905 \cdot 9192745899 \cdot$   
 $\cdot 15953520 \cdot 8632922464 \cdot 4348978893 \quad 138$
- 139  $3 \cdot 3 \cdot 11912 \cdot 4859925363 \cdot P124$
- 140  $3 \cdot 3 \cdot 11 \cdot 29 \cdot 41 \cdot 71 \cdot 101 \cdot 239 \cdot 271 \cdot 281 \cdot 421 \cdot 3541 \cdot 4649 \cdot 9091 \cdot 27961 \cdot 123551 \cdot 909091 \cdot$   
 $\cdot 3471301 \cdot 4147571 \cdot 13489841 \cdot 121499449 \cdot 6 \cdot 0368344121 \cdot 10259880 \cdot 0232111471 \cdot$   
 $\cdot 26521279 \cdot 3249617641 \cdot 8 \cdot 4865448387 \cdot 9497562821 \quad 140$
- 141  $3 \cdot 3 \cdot 3 \cdot 37 \cdot 283 \cdot 35121409 \cdot 72103049 \cdot 8171501831 \cdot$   
 $\cdot 316362908 \cdot 7634585250 \cdot 0140615403 \cdot 8726382279 \cdot$   
 $\cdot 44 \cdot 1506346488 \cdot 3600484821 \cdot 1413514191 \cdot 9313523563 \cdot 7149481071 \cdot 6121566453 \cdot 3500695867 \quad 141$
- 142  $3 \cdot 3 \cdot 11 \cdot 290249 \cdot 2415731423 \cdot 9362767357 \cdot 6957439049 \cdot$   
 $\cdot 4 \cdot 5994811347 \cdot 8868463102 \cdot 2172889522 \cdot 3034301839 \cdot$   
 $\cdot 31321 \cdot 0694641810 \cdot 6835541520 \cdot 9323405389 \cdot 5417069794 \cdot 9315618971 \cdot 6729115659 \quad 142$
- 143  $3 \cdot 3 \cdot 53 \cdot 79 \cdot 21649 \cdot 513239 \cdot 2823679 \cdot 180523201 \cdot 265371653 \cdot$   
 $\cdot 47 \cdot 4286764445 \cdot 9170572792 \cdot 9369346443 \cdot P74 \quad 143$
- 144  $3 \cdot 3 \cdot 3 \cdot 3 \cdot 7 \cdot 11 \cdot 13 \cdot 17 \cdot 19 \cdot 37 \cdot 73 \cdot 101 \cdot 137 \cdot 3169 \cdot 8929 \cdot 9901 \cdot 52579 \cdot 98641 \cdot 333667 \cdot$   
 $\cdot 5882353 \cdot 99990001 \cdot 99 \cdot 9999000001 \cdot 319904 \cdot 4596370769 \cdot 999999 \cdot 9900000001 \cdot$   
 $\cdot 11199 \cdot 4624258035 \cdot 6142905139 \cdot 4333072012 \cdot 5433979169 \quad 144$
- 145  $3 \cdot 3 \cdot 41 \cdot 271 \cdot 3191 \cdot 16763 \cdot 43037 \cdot 62003 \cdot 9605671 \cdot 7 \cdot 7843839397 \cdot$   
 $\cdot 1558928097 \cdot 4996818911 \cdot 80684370 \cdot 0012696988 \cdot 5399615167 \cdot 0133742711 \cdot$   
 $\cdot 74490973 \cdot 1145732233 \cdot 9936139310 \cdot 8905952897 \cdot 7143716201 \quad 145$
- 146  $3 \cdot 3 \cdot 11 \cdot 293 \cdot 1 \cdot 2171337159 \cdot 185519384 \cdot 2151350117 \cdot 108266849 \cdot 6453995983 \cdot 7294043117 \cdot$   
 $\cdot 28 \cdot 6578888976 \cdot 1949979999 \cdot 2259233090 \cdot 8602103011 \cdot$   
 $\cdot 4920 \cdot 7341634646 \cdot 3269340017 \cdot 3948250213 \cdot 1487446637 \quad 146$
- 147  $3 \cdot 3 \cdot 3 \cdot 37 \cdot 43 \cdot 239 \cdot 1933 \cdot 4649 \cdot 63799 \cdot 4715467 \cdot 10838689 \cdot 505885997 \cdot$   
 $\cdot 26765 \cdot 2966241599 \cdot 260394188 \cdot 3787374089 \cdot 1976 \cdot 7301445981 \cdot 9096356802 \cdot 3014679333 \cdot$   
 $\cdot 4769337181 \cdot 4649591479 \cdot 9770475387 \cdot 6850429427 \quad 147$
- 148  $3 \cdot 3 \cdot 11 \cdot 101 \cdot 149 \cdot 3109 \cdot 7253 \cdot 111149 \cdot 2028119 \cdot 247629013 \cdot 70 \cdot 8840373781 \cdot$   
 $\cdot 42265 \cdot 0073734453 \cdot 29655734 \cdot 7313446299 \cdot 6 \cdot 6903168666 \cdot 1427842829 \cdot$   
 $\cdot 22 \cdot 1239429677 \cdot 0203368013 \cdot 405481405 \cdot 1406277475 \cdot 8071840361 \quad 148$
- 149  $3 \cdot 3 \cdot 12517 \cdot 53559 \cdot 6779200919 \cdot P130$
- 150  $3 \cdot 3 \cdot 3 \cdot 7 \cdot 11 \cdot 13 \cdot 31 \cdot 37 \cdot 41 \cdot 151 \cdot 211 \cdot 241 \cdot 251 \cdot 271 \cdot 2161 \cdot 4201 \cdot 5051 \cdot 9091 \cdot 21401 \cdot 25601 \cdot$   
 $\cdot 2906161 \cdot 18 \cdot 2521213001 \cdot 7887 \cdot 5943472201 \cdot 15763 \cdot 9855537391 \cdot 9170916417 \cdot 0940063151 \cdot$   
 $\cdot 1 \cdot 0000099999 \cdot 9999899998 \cdot 9999900000 \cdot 0000100001 \quad 150$

Short 10+

## Factorizations of $10^n + 1$ , $n \leq 150$

$n$	Prime Factors
1	11
2	101
3	7 · 11 · 13
4	73 · 137
5	11 · 9091
6	101 · 9901
7	11 · 909091
8	17 · 5882353
9	7 · 11 · 13 · 19 · 52579
10	101 · 3541 · 27961
11	11 · 11 · 23 · 4093 · 8779
12	73 · 137 · 99990001
13	11 · 859 · 1058313049
14	29 · 101 · 281 · 121499449
15	7 · 11 · 13 · 211 · 241 · 2161 · 9091
16	353 · 449 · 641 · 1409 · 69857
17	11 · 103 · 4013 · 2 1993833369
18	101 · 9901 · 99 9999000001
19	11 · 90909090 9090909091
20	73 · 137 · 1676321 · 5964848081
21	7 · 7 · 11 · 13 · 127 · 2689 · 459691 · 909091
22	89 · 101 · 1052788969 · 1056689261
23	11 · 47 · 139 · 2531 · 54979 7184491917
24	17 · 5882353 · 999999 9900000001
25	11 · 251 · 5051 · 9091 · 7887 5943472201
26	101 · 521 · 19 0038197677 7332243781
27	7 · 11 · 13 · 19 · 52579 · 70541929 · 1 4175966169
28	73 · 137 · 7841 · 1 2752200102 0150503761
29	11 · 59 · 1540832 0493066255 7781201849
30	61 · 101 · 3541 · 9901 · 27961 · 4188901 · 39526741
31	11 · 9090909090 9090909090 9090909091
32	19841 · 976193 · 6187457 · 83442 7406578561
33	7 · 11 · 11 · 13 · 23 · 4093 · 8779 · 599144041 · 18 3411838171
34	101 · 28559389 · 1491383821 · 232455 7465671829
35	11 · 9091 · 909091 · 4147571 · 26521279 3249617641
36	73 · 137 · 3169 · 98641 · 99990001 · 319904 4596370769
37	11 · 7253 · 42265 0073734453 · 29655734 7313446299
38	101 · 72281703 6322379041 · 136977818 7490592461
39	7 · 11 · 13 · 13 · 157 · 859 · 6397 · 216451 · 1058313049 · 38 8847808493
40	17 · 5070721 · 5882353 · 197210 6116664671 7498359681
41	11 · 267050278 1396266997 · 34 0419382980 6058997303
42	29 · 101 · 281 · 9901 · 226549 · 121499449 · 445819222 3320340849
43	11 · 57009401 · 2182600451 · 73061 1655657181 7748755241
44	73 · 137 · 617 · 16205834 8460129675 8492708265 6402106953

45	7.11.13.19.211.241.2161.9091.29611.52579.3762091.898 5695684401	
46	101.1289.1837 1524594609.41810033 0007166986 7932658901	
47	11.6299.485506 7598095567.2972627 0500913900 6771611927	
48	97.353.449.641.1409.69857.206209.6 6554101249.7511 8313082913	
49	11.197.909091.5076141624 3655329949 1878172639 5939035533	
50	101.3541.27961.60101.7019801.1410 3673319201.168058 8011350901	
51	7.11.13.103.4013.2 1993833369.29 1078844423.3 7752695530 9799110357	
52	73.137.1580801.63 2527440202 1507450906 2241224544 3923049201	
53	11.90 9090909090 9090909090 9090909090 9090909090 9090909091	
54	101.109.9901.153469.99 9999000001.597795771 5633453386 6654838281	
55	11.11.23.331.4093.5171.8779.9091.2 0163494891.3187 2784116567 4579776721	
56	17.113.5882353.7376575589 6403138401.1199683 6914484637 0226083377	
57	7.11.13.1458973.90909090 9090909091.7532018062 7132846254 7977919407	
58	101.349.38861.618049.1181 1806375201 8364086796 3573625866 9583187541	
59	11.1889.10 9080584206 8098677837.4411 9227709960 7410964453 5362851087	
60	73.137.1676321.99990001.5964848081.100 0099999998 9998999900 0000010001	
61	11.81131.112052 2253011683 6855321528 2578904375 7514502359 2596037161	
62	101.2049349.4831 2854955451 2237305554 5883590398 2239730714 9685578249	
63	7.7.11.13.19.127.2689.52579.459691.909091.5274739. .1897724226 7323558587 4485732659	63
64	1265011073.153 4316818888 9137818369.515 2175252652 1326744786 9906815873	
65	11.131.859.9091.1058313049.839686 2596258693 9016106022 9855716710 0076327481	
66	89.101.9901.1052788969.1056689261.5419170769.78939 0798020221.236100 0305507449	
67	11.909090 9090909090 9090909090 9090909090 9090909090 9090909091	
68	73.137.152533657.655527 4617188258 3264230070 8688843668 7780323722 2654400793	
69	7.11.13.47.139.2531.31051.14357 4021480139.54979 7184491917. .246494 4534764905 9192745899	69
70	29.101.281.421.3541.27961.3471301.13489841.121499449.6 0368344121. .84865448387 9497562821	70
71	11.290249.31321 0694641810 6835541520 9323405389 5417069794 9315618971 6729115659	
72	17.8929.5882353.999999 9900000001.11199 4624258035 6142905139 4333072012 5433979169	
73	11.293.108266849 6453995983 7294043117.28 6578888976 1949979999 2259233090 8602103011	
74	101.149.3109.111149.70 8840373781.6 6903168666 1427842829. .405481405 1406277475 8071840361	74
75	7.11.13.211.241.251.2161.5051.9091.7887 5943472201. .1 0000099999 9999899998 9999900000 0000100001	75
76	73.137.457.1403417.524080865 6722481737. .29747 8330786365 6284148053 0529030248 3555043017	76
77	11.11.23.463.4093.8779.24179.590437.909091.7444361.453940262 7853030477. .49 2463016031 5726207887	77
78	101.521.3121.9901.5339 7071018461.19 0038197677 7332243781. .6 0605178603 1039803398 5611921721	78
79	11.1423.9615060929. .66443 1745414905 7909799751 0158021076 9583929389 7601150694 9065646573	79
80	353.449.641.1409.69857.1634881.18453761.94 7147262401. .349954396 0401225779 2804159621 4187605761	80
81	7.11.13.19.1459.52579.70541929.2458921051.1 4175966169.45650238 2570032651. .6106 0038608985 8349939139	81
82	101.68389.P76	
83	11.167.997.3565183.2097307081.774209824 7001476863. .94 3176903141 3300684826 0290096029 4299878841	83
84	73.137.7841.99990001.1 1189053009.60381242 9055411913.1 2752200102 0150503761. .1 4802942340 0750506553	84

85	11.103.4013.9091.87211.787223761.2 1993833369. .1 6022079482 1014452066 7419183035 8091766438 6555934641	85
86	101.338669.P79	
87	7.11.13.59.63 8453709757.13508 0726389891.1540832 0493066255 7781201849. .1 2741947328 9814847176 6404179653	87
88	17.5882353.10100113. .990 0879227786 8584242572 2365680473 0798555422 1027131082 5918482298 2673560177	88
89	11.179.1214723 7304901893. .4180967272 6732520322 9119091718 8955510245 8741800011 6483993107 7197586653	89
90	61.101.181.3541.9901.27961.4188901.39526741.99 9999000001. .49 9943754145 3012143121.11050 9779500299 4798105101	90
91	11.859.909091.21705503.1058313049. .50678 3874117038 8910175912 5785290439 8943899203 8562709650 1794498837	91
92	73.137.2393.P85	
93	7.11.13.373.44641.3590254957.9090909090 9090909090 9090909091. .1838 1907262281 2446331581 9067778696 6663091011	93
94	101.45121.2144906157 5094116844 2491377407 8958939881. .102303764 3093214557 6513331204 2298021317 2396059301	94
95	11.9091.181 2604116731.12145 0506296081.90909090 9090909091. .499673 1930447843 6761858439 5974662149 1531100801	95
96	193.769.19841.976193.6187457.83442 7406578561.125322453 5459902849. .5 3763491189 9672213585 7554610727 9034709697	96
97	11.1025 2736135461 3106010527.323 3384348910 3408917347 5790125293. .2 7422699366 0546216832 9562307947 1066588881	97
98	29.101.281.121499449.P84	
99	7.11.11.13.19.23.4093.8779.52579.599144041.7093127053.18 3411838171. .1 4112252487 7886182282 2335393177 9614493830 5111168717	99
100	73.137.401.1201.1601.1676321.5964848081. .12 9694419029 0577505513 8577118456 4274499075 7009476567 5782153729 1527196801	100
101	11.607.809.1213.1327067281.P83	
102	101.409.3061.9901.5969449.28559389.134703241.1491383821.22597 4065503889. .232455 7465671829.443980004 7900799756 9751764249	102
103	11.1237.44092859.102860539.984385009.61205 3256358933. .1827 2511486652 1155647161.1471865 4539938553 0266088761 4137521979	103
104	17.1249.49297.300977.648961.5882353.2 4922778781 8677482257. .3336327 6643840901 1274705987 0264076396 7004230553 6743429073	104
105	7.7.11.13.127.211.241.2161.2689.9091.459691.909091.4147571.2 9970369241. .166137 8260814161.26521279 3249617641.182 7616884682 1336356291	105
106	101.1061.5051749.245391150 2148752495 0268580742 1982149521. .752770 4835280872 9626679875 8529014480 3454017356 9840168229	106
107	11.1499.28463.74687.392263.795653.P82	
108	73.137.3169.98641.99990001.319904 4596370769.1726 2900089915 0450017746 3302688697. .579276943 4981542821 2368699988 1829009033	108
109	11.333878 6746233023.14060959 6838642862 6740593300 0927102019. .193643 8332114871 9295180578 8533257418 5585898784 8620134943	109
110	89.101.661.3541.18041.27961.148721.1052788969.1056689261.1121407321. .13959003 7091632724 5555441901.36 3805450299 5320595637 7406702261	110
111	7.11.13.223.4663.7253.42265 0073734453.29655734 7313446299. .21 6060644986 9150524620 0058094681.48911 6891108913 0370617419 3415115219	111
112	353.449.641.673.1409.69857.4 3735845217. .217860610 4520311215 9848927995 0204653537. .15594 4009296214 0541006269 1600379440 7157304353	112
113	11.4973.4426889.P102	
114	101.229.2281.4789.9901.304077901.5287 5286008709.72281703 6322379041. .73965389 3349540289.136977818 7490592461.339 5073642066 1075851541	114
115	11.47.139.691.2531.9091.54979 7184491917.P86	

- 116 73·137·233·355193·2 1591416633·17468 7398484984 3803932993 5679794457·  
 .3203269941 6316994338 4295066992 4393166558 4097965489 0345228609 116
- 117 7·11·13·13·19·157·859·6397·52579·216451·461917·60034573·1058313049·  
 .38 8847808493·360968001 5682889556 8286578224 8182587198 1791499540 1933354161 117
- 118 101·430148941·P108
- 119 11·103·4013·909091·1868879293·2 1993833369·56 7332047267 0315859129·  
 .103746 6478304215 5124248643 0622636901 0022369715 4999072471 7454338463 119
- 120 17·5070721·5882353·1132716961·999999 9900000001·197210 6116664671 7498359681·  
 .2812599 8524843779 0051014401·313885064 3843375292 7908678241 120
- 121 11·11·11·23·4093·4357·8779·25169·1485397·1025 0298143135 9171598893·  
 .54 4471001372 5792963322 9165267564 6774644208 2652464055 9883408623 7345292487 121
- 122 101·1587221·8 1183810541·10 1444162656 0371517458 7855838589 2753596849·  
 .75 7433887682 6097411632 7848920184 3375280594 6178818153 9337429709 122
- 123 7·11·13·739·148339·16419517·267050278 1396266997·34 0419382980 6058997303·  
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- 124 73·137·1489·64 0543322297·2790 8132670449·3847 0544418223 0291105649·  
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- 125 11·251·5051·9091·21001·162251·1 0893295001·7887 5943472201·P81
- 126 29·101·281·1009·9901·226549·121499449·4 3266855241·99 9999000001·  
 .445819222 3320340849·  
 .229062468 9643723122 7899575633 6201397660 4469004003 9603689929 126
- 127 11·3557·857772733·1094479651·1125629957·6 1689614907 3719728613·  
 .108 6011081377 7339731289·  
 .360 9953127360 3138218699 3015655675 8170515121 6702113889 127
- 128 257·15361·453377·P116
- 129 7·11·13·57009401·2182600451·73061 1655657181 7748755241·  
 .30 4768036847 0744910648 9460801469 5867632997·  
 .360 5696680890 7913827254 3216791103 8465896663 129
- 130 101·521·3541·27961·2311921·103149883 4064949381·1276385265 2999774041·  
 .19 0038197677 7332243781·121 1973050456 7977254081·  
 .2 7378200366 2467203108 9487008281 130
- 131 11·263·1397382241·30666 2501757259·5257 8637304191 4526306757·  
 .112 5062836800 9816875262 7601991569·  
 .136360808 3180796048 4111687831 9649707168 8492468691 131
- 132 73·137·617·2377·16369·432961·99990001·6796152793·2 4387741577·  
 .1 2619700217 9733470481·2838308 2652223227 9893972777·  
 .16205834 8460129675 8492708265 6402106953 132
- 133 11·909091·90909090 9090909091·2470252 3697730602 5681323889·  
 .6 1828645758 3221408426 6614451996 2696417487·  
 .7 2021403933 7461264264 9166575446 5510017877 133
- 134 101·269·4021·260587121·9492722820 8573594069·  
 .230 2527353565 3574507597 2512226288 0394277261·  
 .160710 3056527759 4576986582 5525217991 7706555918 8277159741 134
- 135 7·11·13·19·211·241·2161·6481·9091·29611·52579·3762091·70541929·  
 .1 4175966169·57 7603663291·898 5695684401·3102 3833790241·  
 .861 0583349234 3400555479 0876409101 7276717091 135
- 136 17·17·5882353·1 3355595217·P117
- 137 11·364393423·11 7651465889·44165 1480271681·67632 1006412903·  
 .2188012421 3685655668 0173235529·  
 .32445695 8063495610 1009646791 0132968264 5985939971 7968478099 137
- 138 101·829·1289·9901·1569889·1837 1524594609·53643053 1035337769·  
 .7 5710854312 9939106221·41810033 0007166986 7932658901·  
 .1 9108466176 7914006812 9270917199 2566565029 138
- 139 11·557·2503·P132
- 140 73·137·7841·851761·1676321·5964848081·1 2752200102 0150503761·P91



141	7.11.13.6299.344887.9127213.485506 7598095567.11 6080338393 4463712259. .2972627 0500913900 6771611927. .300735662 7055904894 8142559741 5127087965 9052470389 2560552659	141
142	101.569.7669.38062384 9488714809.7 7169265188 3350877868 9508504941. .93611 3822875139 5032943162 5811490669. .8251988265 9061966708 7624834867 1944663928 8430446081	142
143	11.11.23.859.4093.8779.51767.1058313049.2 2144088539.26 4752347289. .1 0473010110 7272149081.P74	143
144	97.353.449.641.1409.13249.69857.206209.1067329.6 6554101249.7511 8313082913.P86	
145	11.59.1451.9091.30104611.58765601.243 3146345771.1799613 2431060961. .1540832 0493066255 7781201849. .97862 7276654802 3124601100 8935563207 7411444912 2441851742 2691228321	145
146	101.5911541.1669 2085818029.577429 4197526381.1822027 4280260783 5615596881.P82	
147	7.7.7.11.13.127.197.2689.459691.909091. .5076141624 3655329949 1878172639 5939035533.P84	147
148	73.137.61544617.1644476 5848115921.P120	
149	11.2087.96 1568303145 0065714899. .16545960 9176797865 8661343653 2979227063 5207840943.P76	149
150	61.101.601.3541.9901.27961.60101.261301.3903901.4188901.7019801.39526741. .16 8290119201.1410 3673319201.168058 8011350901.2507409103 8628125301. .38654 6587957181 5645672995 8859629701	150