

# Carrington Rotation Start Dates from 1853-2016 (Rotation Numbers -10 to 2300)

Rotation	Year	Month	Day	Date	Julian Date
-10	1853	1	13.9916	1853.03559	2397867.49162
-9	1853	2	11.0417	1853.11244	2397867.49162
-8	1853	3	9.6642	1853.18538	2397922.16421
-7	1853	4	5.9620	1853.26017	2397949.46204
-6	1853	5	4.0417	1853.33710	2397949.46204
-5	1853	5	31.0417	1853.41107	2397949.46204
-4	1853	6	26.6293	1853.48392	2398031.12927
-3	1853	7	23.8332	1853.55845	2398058.33322
-2	1853	8	21.0417	1853.63573	2398058.33322
-1	1853	9	17.0417	1853.70970	2398058.33322
0	1853	10	13.6016	1853.78247	2398140.10155
1	1853	11	9.9019	1853.85727	2398167.40193
2	1853	12	7.2165	1853.93210	2398194.71646
3	1854	1	3.5447	1854.00697	2398222.04465
4	1854	1	30.8853	1854.08188	2398249.38528
5	1854	2	27.2231	1854.15678	2398276.72306
6	1854	3	26.5360	1854.23161	2398304.03601
7	1854	4	22.8073	1854.30632	2398331.30729
8	1854	5	20.0362	1854.38092	2398358.53619
9	1854	6	16.2383	1854.45545	2398385.73834
10	1854	7	13.4374	1854.52997	2398412.93740
11	1854	8	9.6545	1854.60453	2398440.15454
12	1854	9	5.9006	1854.67918	2398467.40059
13	1854	10	3.1744	1854.75390	2398494.67443
14	1854	10	30.4685	1854.82868	2398521.96852
15	1854	11	26.7774	1854.90350	2398549.27736
16	1854	12	24.1007	1854.97836	2398576.60066
17	1855	1	20.4367	1855.05325	2398603.93670
18	1855	2	16.7780	1855.12816	2398631.27799
19	1855	3	16.1033	1855.20302	2398658.60332
20	1855	4	12.3921	1855.27779	2398685.89212
21	1855	5	9.6366	1855.35243	2398713.13663
22	1855	6	5.8467	1855.42698	2398740.34672
23	1855	7	3.0441	1855.50149	2398767.54414
24	1855	7	30.2522	1855.57603	2398794.75220
25	1855	8	26.4864	1855.65065	2398821.98639
26	1855	9	22.7500	1855.72534	2398849.25002
27	1855	10	20.0371	1855.80010	2398876.53706
28	1855	11	16.3404	1855.87491	2398903.84041
29	1855	12	13.6580	1855.94975	2398931.15795
30	1856	1	9.9892	1856.02456	2398958.48918
31	1856	2	6.3309	1856.09926	2398985.83087
32	1856	3	4.6653	1856.17395	2399013.16531
33	1856	3	31.9703	1856.24855	2399040.47034
34	1856	4	28.2320	1856.32304	2399067.73196
35	1856	5	25.4533	1856.39741	2399094.95332
36	1856	6	21.6527	1856.47173	2399122.15269

Rotation	Year	Month	Day	Date	Julian Date
37	1856	7	18.8541	1856.54605	2399149.35404
38	1856	8	15.0768	1856.62043	2399176.57683
39	1856	9	11.3292	1856.69489	2399203.82925
40	1856	10	8.6081	1856.76942	2399231.10808
41	1856	11	4.9056	1856.84400	2399258.40564
42	1856	12	2.2176	1856.91863	2399285.71756
43	1856	12	29.5442	1856.99329	2399313.04418
44	1857	1	25.8825	1857.06817	2399340.38247
45	1857	2	22.2223	1857.14307	2399367.72229
46	1857	3	21.5412	1857.21792	2399395.04122
47	1857	4	17.8204	1857.29266	2399422.32043
48	1857	5	15.0561	1857.36728	2399449.55605
49	1857	6	11.2613	1857.44181	2399476.76131
50	1857	7	8.4592	1857.51633	2399503.95922
51	1857	8	4.6721	1857.59088	2399531.17209
52	1857	8	31.9129	1857.66551	2399558.41292
53	1857	9	28.1824	1857.74023	2399585.68240
54	1857	10	25.4735	1857.81500	2399612.97351
55	1857	11	21.7799	1857.88981	2399640.27992
56	1857	12	19.1006	1857.96466	2399667.60057
57	1858	1	15.4345	1858.03955	2399694.93449
58	1858	2	11.7762	1858.11446	2399722.27618
59	1858	3	11.1059	1858.18933	2399749.60586
60	1858	4	7.4020	1858.26412	2399776.90200
61	1858	5	4.6540	1858.33878	2399804.15398
62	1858	5	31.8688	1858.41334	2399804.15398
63	1858	6	28.0667	1858.48785	2399858.56670
64	1858	7	25.2716	1858.56239	2399885.77160
65	1858	8	21.5008	1858.63699	2399913.00079
66	1858	9	17.7597	1858.71167	2399940.25965
67	1858	10	15.0432	1858.78642	2399967.54323
68	1858	11	11.3440	1858.86122	2399994.84400
69	1858	12	8.6589	1858.93605	2400022.15889
70	1859	1	4.9875	1859.01092	2400049.48748
71	1859	2	1.3282	1859.08583	2400076.82823
72	1859	2	28.6654	1859.16073	2400104.16541
73	1859	3	27.9769	1859.23555	2400131.47693
74	1859	4	24.2465	1859.31026	2400158.74647
75	1859	5	21.4740	1859.38486	2400185.97400
76	1859	6	17.6757	1859.45939	2400185.97400
77	1859	7	14.8753	1859.53390	2400240.37524
78	1859	8	11.0935	1859.60848	2400267.59350
79	1859	9	7.3408	1859.68313	2400294.84079
80	1859	10	4.6155	1859.75785	2400322.11554
81	1859	10	31.9102	1859.83263	2400349.41020
82	1859	11	28.2195	1859.90745	2400376.71953
83	1859	12	25.5434	1859.98231	2400404.04338
84	1860	1	21.8799	1860.05705	2400431.37985
85	1860	2	18.2209	1860.13175	2400458.72091
86	1860	3	16.5451	1860.20641	2400486.04509
87	1860	4	12.8321	1860.28096	2400513.33207
88	1860	5	10.0748	1860.35540	2400540.57484
89	1860	6	6.2839	1860.42974	2400567.78395
90	1860	7	3.4814	1860.50405	2400594.98141
91	1860	7	30.6904	1860.57839	2400622.19041
92	1860	8	26.9260	1860.65280	2400649.42595

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93	1860	9	23.1908	1860.72730	2400676.69082
94	1860	10	20.4788	1860.80185	2400703.97875
95	1860	11	16.7827	1860.87646	2400731.28273
96	1860	12	14.1009	1860.95110	2400758.60088
97	1861	1	10.4326	1861.02584	2400785.93262
98	1861	2	6.7743	1861.10075	2400813.27427
99	1861	3	6.1077	1861.17564	2400840.60772
100	1861	4	2.4109	1861.25044	2400867.91093
101	1861	4	29.6705	1861.32512	2400895.17051
102	1861	5	26.8905	1861.39970	2400922.39045
103	1861	6	23.0895	1861.47422	2400949.58947
104	1861	7	20.2915	1861.54874	2400976.79152
105	1861	8	16.5157	1861.62333	2401004.01568
106	1861	9	12.7695	1861.69800	2401031.26954
107	1861	10	10.0495	1861.77274	2401058.54948
108	1861	11	6.3478	1861.84753	2401085.84777
109	1861	12	3.6603	1861.92236	2401113.16029
110	1861	12	30.9875	1861.99723	2401140.48747
111	1862	1	27.3260	1862.07213	2401167.82597
112	1862	2	23.6652	1862.14703	2401195.16524
113	1862	3	22.9827	1862.22187	2401222.48266
114	1862	4	19.2599	1862.29660	2401249.75993
115	1862	5	16.4939	1862.37122	2401276.99390
116	1862	6	12.6984	1862.44575	2401304.19840
117	1862	7	9.8966	1862.52026	2401331.39662
118	1862	8	6.1106	1862.59482	2401358.61057
119	1862	9	2.3527	1862.66946	2401385.85270
120	1862	9	29.6233	1862.74417	2401413.12326
121	1862	10	26.9151	1862.81895	2401440.41508
122	1862	11	23.2220	1862.89376	2401467.72203
123	1862	12	20.5433	1862.96861	2401495.04326
124	1863	1	16.8777	1863.04350	2401522.37770
125	1863	2	13.2194	1863.11841	2401549.71935
126	1863	3	12.5481	1863.19328	2401577.04807
127	1863	4	8.8425	1863.26806	2401604.34251
128	1863	5	6.0927	1863.34272	2401631.59267
129	1863	6	2.3063	1863.41728	2401658.80626
130	1863	6	29.5040	1863.49179	2401686.00399
131	1863	7	26.7096	1863.56633	2401713.20955
132	1863	8	22.9399	1863.64093	2401740.43987
133	1863	9	19.1999	1863.71562	2401767.69986
134	1863	10	16.4843	1863.79037	2401794.98428
135	1863	11	12.7857	1863.86517	2401822.28573
136	1863	12	10.1013	1863.94000	2401849.60134
137	1864	1	6.4307	1864.01484	2401876.93071
138	1864	2	2.7719	1864.08954	2401904.27185
139	1864	3	1.1085	1864.16423	2401931.60851
140	1864	3	28.4185	1864.23885	2401958.91853
141	1864	4	24.6861	1864.31335	2401986.18608
142	1864	5	21.9120	1864.38774	2402013.41194
143	1864	6	18.1128	1864.46206	2402040.61285
144	1864	7	15.3126	1864.53637	2402067.81260
145	1864	8	11.5318	1864.61074	2402095.03181
146	1864	9	7.7803	1864.68519	2402122.28027
147	1864	10	5.0561	1864.75972	2402149.55606
148	1864	11	1.3515	1864.83429	2402176.85153

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149	1864	11	28.6616	1864.90891	2402204.16163
150	1864	12	25.9863	1864.98357	2402231.48632
151	1865	1	22.3234	1865.05842	2402258.82340
152	1865	2	18.6643	1865.13333	2402286.16433
153	1865	3	17.9873	1865.20818	2402313.48733
154	1865	4	14.2724	1865.28294	2402340.77242
155	1865	5	11.5134	1865.35757	2402368.01336
156	1865	6	7.7214	1865.43211	2402395.22138
157	1865	7	4.9188	1865.50663	2402422.41880
158	1865	8	1.1286	1865.58117	2402449.62860
159	1865	8	28.3654	1865.65580	2402476.86535
160	1865	9	24.6313	1865.73050	2402504.13132
161	1865	10	21.9200	1865.80526	2402531.42000
162	1865	11	18.2246	1865.88007	2402558.72457
163	1865	12	15.5433	1865.95491	2402586.04333
164	1866	1	11.8757	1866.02980	2402613.37565
165	1866	2	8.2174	1866.10471	2402640.71743
166	1866	3	7.5501	1866.17959	2402668.05012
167	1866	4	3.8517	1866.25439	2402695.35174
168	1866	5	1.1096	1866.32907	2402722.60955
169	1866	5	28.3283	1866.40364	2402749.82825
170	1866	6	24.5270	1866.47816	2402777.02694
171	1866	7	21.7296	1866.55268	2402804.22959
172	1866	8	17.9549	1866.62727	2402831.45485
173	1866	9	14.2098	1866.70194	2402858.70978
174	1866	10	11.4905	1866.77669	2402885.99047
175	1866	11	7.7892	1866.85148	2402913.28925
176	1866	12	5.1023	1866.92631	2402940.60228
177	1867	1	1.4290	1867.00118	2402967.92903
178	1867	1	28.7690	1867.07608	2402995.26904
179	1867	2	25.1081	1867.15098	2403022.60807
180	1867	3	24.4244	1867.22582	2403049.92434
181	1867	4	20.6999	1867.30055	2403077.19993
182	1867	5	17.9324	1867.37516	2403104.43242
183	1867	6	14.1362	1867.44969	2403131.63617
184	1867	7	11.3345	1867.52420	2403158.83455
185	1867	8	7.5493	1867.59877	2403186.04929
186	1867	9	3.7924	1867.67340	2403213.29243
187	1867	10	1.0638	1867.74812	2403240.56378
188	1867	10	28.3561	1867.82289	2403267.85612
189	1867	11	24.6636	1867.89771	2403295.16358
190	1867	12	21.9855	1867.97256	2403322.48550
191	1868	1	18.3206	1868.04732	2403349.82059
192	1868	2	14.6624	1868.12203	2403377.16237
193	1868	3	12.9903	1868.19669	2403404.49029
194	1868	4	9.2831	1868.27127	2403431.78315
195	1868	5	6.5316	1868.34571	2403459.03161
196	1868	6	2.7441	1868.42007	2403486.24407
197	1868	6	29.9416	1868.49438	2403513.44163
198	1868	7	27.1479	1868.56871	2403540.64787
199	1868	8	23.3793	1868.64311	2403567.87931
200	1868	9	19.6403	1868.71760	2403595.14034
201	1868	10	16.9255	1868.79215	2403622.42552
202	1868	11	13.2275	1868.86674	2403649.72751
203	1868	12	10.5437	1868.94138	2403677.04369
204	1869	1	6.8737	1869.01609	2403704.37365

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205	1869	2	3.2150	1869.09100	2403731.71500
206	1869	3	2.5510	1869.16589	2403759.05101
207	1869	3	29.8595	1869.24071	2403786.35948
208	1869	4	26.1252	1869.31541	2403813.62517
209	1869	5	23.3496	1869.39000	2403840.84963
210	1869	6	19.5501	1869.46452	2403868.05007
211	1869	7	16.7504	1869.53904	2403895.25038
212	1869	8	12.9708	1869.61362	2403922.47079
213	1869	9	9.2206	1869.68828	2403949.72056
214	1869	10	6.4973	1869.76301	2403976.99731
215	1869	11	2.7934	1869.83779	2404004.29337
216	1869	11	30.1039	1869.91261	2404031.60394
217	1869	12	27.4291	1869.98748	2404058.92911
218	1870	1	23.7665	1870.06237	2404086.26648
219	1870	2	20.1071	1870.13728	2404113.60705
220	1870	3	19.4288	1870.21213	2404140.92881
221	1870	4	15.7122	1870.28688	2404168.21214
222	1870	5	12.9515	1870.36151	2404195.45153
223	1870	6	9.1588	1870.43605	2404222.65880
224	1870	7	6.3565	1870.51057	2404249.85647
225	1870	8	2.5673	1870.58512	2404277.06731
226	1870	8	29.8053	1870.65974	2404304.30534
227	1870	9	26.0723	1870.73444	2404331.57233
228	1870	10	23.3616	1870.80921	2404358.86161
229	1870	11	19.6666	1870.88402	2404386.16656
230	1870	12	16.9858	1870.95887	2404413.48575
231	1871	1	13.3185	1871.03375	2404440.81848
232	1871	2	9.6603	1871.10866	2404468.16027
233	1871	3	8.9921	1871.18354	2404495.49213
234	1871	4	5.2922	1871.25833	2404522.79218
235	1871	5	2.5483	1871.33301	2404550.04829
236	1871	5	29.7658	1871.40758	2404577.26582
237	1871	6	25.9643	1871.48209	2404604.46433
238	1871	7	23.1677	1871.55662	2404631.66769
239	1871	8	19.3941	1871.63122	2404658.89414
240	1871	9	15.6503	1871.70589	2404686.15025
241	1871	10	12.9318	1871.78064	2404713.43181
242	1871	11	9.2312	1871.85543	2404740.73117
243	1871	12	6.5448	1871.93026	2404768.04477
244	1872	1	2.8721	1872.00512	2404795.37214
245	1872	1	30.2125	1872.07982	2404822.71245
246	1872	2	26.5510	1872.15451	2404850.05097
247	1872	3	24.8658	1872.22914	2404877.36578
248	1872	4	21.1394	1872.30366	2404904.63939
249	1872	5	18.3702	1872.37806	2404931.87019
250	1872	6	14.5731	1872.45239	2404959.07314
251	1872	7	11.7718	1872.52670	2404986.27177
252	1872	8	7.9876	1872.60106	2405013.48758
253	1872	9	4.2321	1872.67550	2405040.73206
254	1872	10	1.5046	1872.75001	2405068.00461
255	1872	10	28.7978	1872.82458	2405095.29782
256	1872	11	25.1060	1872.89920	2405122.60600
257	1872	12	22.4286	1872.97385	2405149.92863
258	1873	1	18.7642	1873.04867	2405177.26422
259	1873	2	15.1058	1873.12358	2405204.60580
260	1873	3	14.4325	1873.19845	2405231.93247

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261	1873	4	10.7233	1873.27321	2405259.22333
262	1873	5	7.9699	1873.34786	2405286.46985
263	1873	6	4.1811	1873.42241	2405313.68112
264	1873	7	1.3786	1873.49693	2405340.87859
265	1873	7	28.5857	1873.57147	2405368.08572
266	1873	8	24.8186	1873.64608	2405395.31855
267	1873	9	21.0809	1873.72077	2405422.58095
268	1873	10	18.3671	1873.79553	2405449.86711
269	1873	11	14.6698	1873.87033	2405477.16978
270	1873	12	11.9866	1873.94517	2405504.48659
271	1874	1	8.3171	1874.02005	2405531.81705
272	1874	2	4.6584	1874.09495	2405559.15845
273	1874	3	3.9936	1874.16985	2405586.49360
274	1874	3	31.3003	1874.24466	2405613.80035
275	1874	4	27.5641	1874.31935	2405641.06405
276	1874	5	24.7870	1874.39394	2405668.28703
277	1874	6	20.9870	1874.46846	2405695.48699
278	1874	7	18.1879	1874.54298	2405722.68786
279	1874	8	14.4095	1874.61756	2405749.90948
280	1874	9	10.6606	1874.69222	2405777.16058
281	1874	10	7.9384	1874.76695	2405804.43837
282	1874	11	4.2352	1874.84174	2405831.73516
283	1874	12	1.5464	1874.91657	2405859.04637
284	1874	12	28.8722	1874.99143	2405859.04637
285	1875	1	25.2101	1875.06633	2405913.71006
286	1875	2	21.5504	1875.14123	2405941.05035
287	1875	3	20.8708	1875.21608	2405968.37084
288	1875	4	17.1523	1875.29083	2405995.65227
289	1875	5	14.3899	1875.36545	2406022.88986
290	1875	6	10.5961	1875.43999	2406050.09609
291	1875	7	7.7937	1875.51450	2406077.29373
292	1875	8	4.0053	1875.58906	2406104.50534
293	1875	8	31.2445	1875.66368	2406131.74451
294	1875	9	27.5126	1875.73839	2406159.01256
295	1875	10	24.8027	1875.81316	2406186.30266
296	1875	11	21.1084	1875.88797	2406213.60836
297	1875	12	18.4284	1875.96282	2406240.92839
298	1876	1	14.7619	1876.03760	2406268.26192
299	1876	2	11.1039	1876.11231	2406295.60391
300	1876	3	9.4350	1876.18698	2406322.93497
301	1876	4	5.7333	1876.26157	2406350.23329
302	1876	5	2.9874	1876.33603	2406377.48740
303	1876	5	30.2035	1876.41039	2406404.70346
304	1876	6	26.4015	1876.48470	2406431.90146
305	1876	7	23.6053	1876.55903	2406459.10528
306	1876	8	19.8328	1876.63342	2406486.33282
307	1876	9	16.0902	1876.70790	2406513.59015
308	1876	10	13.3727	1876.78244	2406540.87270
309	1876	11	9.6729	1876.85703	2406568.17286
310	1876	12	6.9873	1876.93166	2406595.48728
311	1877	1	3.3155	1877.00634	2406622.81545
312	1877	1	30.6562	1877.08125	2406650.15618
313	1877	2	26.9942	1877.15615	2406677.49418
314	1877	3	26.3074	1877.23098	2406704.80744
315	1877	4	22.5790	1877.30570	2406732.07900
316	1877	5	19.8081	1877.38030	2406759.30807

Rotation	Year	Month	Day	Date	Julian Date
317	1877	6	16.0102	1877.45482	2406786.51020
318	1877	7	13.2091	1877.52934	2406813.70905
319	1877	8	9.4259	1877.60391	2406840.92588
320	1877	9	5.6717	1877.67855	2406868.17166
321	1877	10	2.9453	1877.75327	2406895.44529
322	1877	10	30.2393	1877.82805	2406922.73928
323	1877	11	26.5481	1877.90287	2406950.04813
324	1877	12	23.8715	1877.97773	2406977.37146
325	1878	1	20.2076	1878.05262	2407004.70760
326	1878	2	16.5491	1878.12753	2407032.04907
327	1878	3	15.8747	1878.20240	2407059.37468
328	1878	4	12.1638	1878.27716	2407086.66378
329	1878	5	9.4086	1878.35180	2407113.90854
330	1878	6	5.6188	1878.42635	2407141.90854
331	1878	7	2.8161	1878.50087	2407168.31615
332	1878	7	30.0240	1878.57541	2407195.52403
333	1878	8	26.2580	1878.65002	2407222.75799
334	1878	9	22.5214	1878.72472	2407250.02137
335	1878	10	19.8082	1878.79947	2407277.30818
336	1878	11	16.1113	1878.87428	2407304.61134
337	1878	12	13.4287	1878.94912	2407331.92872
338	1879	1	9.7598	1879.02400	2407359.25983
339	1879	2	6.1015	1879.09891	2407386.60150
340	1879	3	5.4361	1879.17380	2407413.93610
341	1879	4	1.7415	1879.24861	2407441.24145
342	1879	4	29.0034	1879.32330	2407468.50343
343	1879	5	26.2251	1879.39788	2407495.72509
344	1879	6	22.4246	1879.47240	2407522.92459
345	1879	7	19.6259	1879.54692	2407550.12590
346	1879	8	15.8485	1879.62150	2407577.34851
347	1879	9	12.1007	1879.69617	2407604.60066
348	1879	10	9.3793	1879.77090	2407631.87925
349	1879	11	5.6766	1879.84569	2407659.17660
350	1879	12	2.9884	1879.92052	2407686.48839
351	1879	12	30.3150	1879.99538	2407713.81497
352	1880	1	26.6533	1880.07009	2407741.15332
353	1880	2	22.9934	1880.14479	2407768.49339
354	1880	3	21.3127	1880.21943	2407795.81267
355	1880	4	17.5923	1880.29397	2407823.09228
356	1880	5	14.8282	1880.36838	2407850.32817
357	1880	6	11.0335	1880.44271	2407877.53347
358	1880	7	8.2312	1880.51703	2407904.73119
359	1880	8	4.4437	1880.59138	2407931.94369
360	1880	8	31.6841	1880.66580	2407959.18407
361	1880	9	27.9532	1880.74031	2407986.45318
362	1880	10	25.2441	1880.81487	2408013.74405
363	1880	11	21.5504	1880.88948	2408041.05036
364	1880	12	18.8711	1880.96413	2408068.37105
365	1881	1	15.2051	1881.03892	2408095.70514
366	1881	2	11.5471	1881.11383	2408123.04711
367	1881	3	10.8772	1881.18870	2408150.37719
368	1881	4	7.1737	1881.26349	2408177.67374
369	1881	5	4.4260	1881.33815	2408204.92601
370	1881	5	31.6409	1881.41271	2408232.14090
371	1881	6	27.8388	1881.48723	2408259.33875
372	1881	7	25.0434	1881.56176	2408286.54340

Rotation	Year	Month	Day	Date	Julian Date
373	1881	8	21.2723	1881.63636	2408313.77228
374	1881	9	17.5309	1881.71104	2408341.03087
375	1881	10	14.8143	1881.78579	2408368.31428
376	1881	11	11.1150	1881.86059	2408395.61497
377	1881	12	8.4298	1881.93542	2408422.92981
378	1882	1	4.7584	1882.01030	2408450.25840
379	1882	2	1.0992	1882.08520	2408477.59920
380	1882	2	28.4365	1882.16010	2408504.93650
381	1882	3	27.7482	1882.23493	2408532.24822
382	1882	4	24.0180	1882.30964	2408559.51795
383	1882	5	21.2456	1882.38423	2408586.74562
384	1882	6	17.4473	1882.45876	2408613.94733
385	1882	7	14.6468	1882.53328	2408641.14678
386	1882	8	10.8649	1882.60785	2408668.36488
387	1882	9	7.1120	1882.68250	2408695.61200
388	1882	10	4.3867	1882.75722	2408722.88664
389	1882	10	31.6812	1882.83200	2408750.18124
390	1882	11	27.9905	1882.90682	2408777.49051
391	1882	12	25.3143	1882.98168	2408804.81433
392	1883	1	21.6508	1883.05658	2408832.15080
393	1883	2	17.9920	1883.13148	2408859.49198
394	1883	3	17.3164	1883.20635	2408886.81640
395	1883	4	13.6037	1883.28111	2408914.10370
396	1883	5	10.8468	1883.35574	2408941.34676
397	1883	6	7.0560	1883.43029	2408968.55601
398	1883	7	4.2535	1883.50480	2408995.75345
399	1883	7	31.4623	1883.57935	2409022.96225
400	1883	8	27.6975	1883.65397	2409050.19749
401	1883	9	23.9620	1883.72866	2409077.46204
402	1883	10	21.2497	1883.80342	2409104.74966
403	1883	11	17.5534	1883.87823	2409132.05343
404	1883	12	14.8714	1883.95307	2409159.37142
405	1884	1	11.2031	1884.02788	2409186.70310
406	1884	2	7.5449	1884.10258	2409214.04487
407	1884	3	5.8786	1884.17726	2409241.37863
408	1884	4	2.1822	1884.25186	2409268.68225
409	1884	4	29.4422	1884.32634	2409295.94223
410	1884	5	26.6624	1884.40072	2409323.16243
411	1884	6	22.8615	1884.47503	2409350.36150
412	1884	7	20.0634	1884.54935	2409377.56341
413	1884	8	16.2873	1884.62374	2409404.78731
414	1884	9	12.5409	1884.69820	2409432.04089
415	1884	10	9.8206	1884.77273	2409459.32061
416	1884	11	6.1188	1884.84732	2409486.61878
417	1884	12	3.4313	1884.92194	2409513.93126
418	1884	12	30.7585	1884.99661	2409541.25845
419	1885	1	27.0970	1885.07150	2409568.59704
420	1885	2	23.4365	1885.14640	2409595.93648
421	1885	3	22.7541	1885.22124	2409623.25413
422	1885	4	19.0316	1885.29598	2409650.53159
423	1885	5	16.2656	1885.37059	2409677.76565
424	1885	6	12.4701	1885.44512	2409704.97008
425	1885	7	9.6681	1885.51964	2409732.16809
426	1885	8	5.8818	1885.59420	2409759.38178
427	1885	9	2.1237	1885.66883	2409786.62370
428	1885	9	29.3942	1885.74355	2409813.89417



Rotation	Year	Month	Day	Date	Julian Date
429	1885	10	26.6860	1885.81832	2409841.18597
430	1885	11	22.9930	1885.89313	2409868.49297
431	1885	12	20.3143	1885.96798	2409895.81429
432	1886	1	16.6488	1886.04287	2409923.14881
433	1886	2	12.9906	1886.11778	2409950.49056
434	1886	3	12.3194	1886.19266	2409977.81943
435	1886	4	8.6141	1886.26744	2410005.11405
436	1886	5	5.8644	1886.34209	2410032.36439
437	1886	6	2.0781	1886.41665	2410059.57804
438	1886	6	29.2758	1886.49117	2410086.77575
439	1886	7	26.4812	1886.56570	2410113.98122
440	1886	8	22.7114	1886.64031	2410141.21141
441	1886	9	18.9713	1886.71499	2410168.47127
442	1886	10	16.2556	1886.78974	2410195.75560
443	1886	11	12.5569	1886.86454	2410223.05693
444	1886	12	9.8724	1886.93938	2410250.37241
445	1887	1	6.2016	1887.01425	2410277.70161
446	1887	2	2.5427	1887.08916	2410305.04265
447	1887	3	1.8793	1887.16405	2410332.37934
448	1887	3	29.1895	1887.23888	2410359.68951
449	1887	4	25.4573	1887.31358	2410386.95731
450	1887	5	22.6834	1887.38817	2410414.18340
451	1887	6	18.8844	1887.46270	2410441.38443
452	1887	7	16.0842	1887.53722	2410468.58422
453	1887	8	12.3034	1887.61179	2410495.80336
454	1887	9	8.5517	1887.68644	2410523.05172
455	1887	10	5.8274	1887.76117	2410550.32741
456	1887	11	2.1228	1887.83595	2410577.62279
457	1887	11	29.4328	1887.91077	2410604.93281
458	1887	12	26.7574	1887.98564	2410632.25743
459	1888	1	23.0945	1888.06037	2410659.59450
460	1888	2	19.4355	1888.13507	2410686.93552
461	1888	3	17.7587	1888.20972	2410714.25872
462	1888	4	14.0440	1888.28427	2410741.54404
463	1888	5	11.2852	1888.35870	2410768.78514
464	1888	6	7.4932	1888.43304	2410795.99317
465	1888	7	4.6905	1888.50735	2410823.19045
466	1888	7	31.9000	1888.58169	2410850.40001
467	1888	8	28.1365	1888.65611	2410877.63649
468	1888	9	24.4022	1888.73061	2410904.90223
469	1888	10	21.6908	1888.80517	2410932.19082
470	1888	11	17.9954	1888.87977	2410959.49538
471	1888	12	15.3142	1888.95441	2410986.81420
472	1889	1	11.6466	1889.02917	2411014.14661
473	1889	2	7.9885	1889.10408	2411041.48853
474	1889	3	7.3214	1889.17896	2411068.82144
475	1889	4	3.6233	1889.25376	2411096.12328
476	1889	4	30.8813	1889.32844	2411123.38127
477	1889	5	28.1000	1889.40301	2411150.60002
478	1889	6	24.2987	1889.47753	2411177.79865
479	1889	7	21.5011	1889.55206	2411205.00115
480	1889	8	17.7262	1889.62665	2411232.22624
481	1889	9	13.9811	1889.70132	2411259.48106
482	1889	10	11.2617	1889.77606	2411286.76175
483	1889	11	7.5606	1889.85085	2411314.06056
484	1889	12	4.8736	1889.92568	2411341.37360

Rotation	Year	Month	Day	Date	Julian Date
485	1890	1	1.2003	1890.00055	2411368.70032
486	1890	1	28.5403	1890.07545	2411396.04027
487	1890	2	24.8793	1890.15035	2411423.37925
488	1890	3	24.1955	1890.22519	2411450.69553
489	1890	4	20.4712	1890.29992	2411477.97117
490	1890	5	17.7037	1890.37453	2411505.20368
491	1890	6	13.9074	1890.44906	2411532.40744
492	1890	7	11.1058	1890.52358	2411559.60578
493	1890	8	7.3205	1890.59814	2411586.82050
494	1890	9	3.5636	1890.67278	2411614.06363
495	1890	9	30.8350	1890.74749	2411641.33503
496	1890	10	28.1274	1890.82227	2411668.62744
497	1890	11	24.4349	1890.89708	2411695.93491
498	1890	12	21.7568	1890.97194	2411723.25679
499	1891	1	18.0918	1891.04683	2411750.59183
500	1891	2	14.4336	1891.12174	2411777.93359
501	1891	3	13.7616	1891.19661	2411805.26157
502	1891	4	10.0546	1891.27138	2411832.55458
503	1891	5	7.3032	1891.34604	2411859.80323
504	1891	6	3.5158	1891.42059	2411887.01581
505	1891	6	30.7134	1891.49511	2411914.21337
506	1891	7	27.9195	1891.56964	2411941.41951
507	1891	8	24.1508	1891.64425	2411968.65079
508	1891	9	20.4116	1891.71894	2411995.91164
509	1891	10	17.6967	1891.79369	2412023.19666
510	1891	11	13.9985	1891.86849	2412050.49848
511	1891	12	11.3145	1891.94333	2412077.81455
512	1892	1	7.6444	1892.01815	2412105.14441
513	1892	2	3.9858	1892.09286	2412132.48576
514	1892	3	2.3219	1892.16755	2412159.82192
515	1892	3	29.6307	1892.24216	2412187.13067
516	1892	4	25.8967	1892.31666	2412214.39666
517	1892	5	23.1213	1892.39104	2412241.62133
518	1892	6	19.3219	1892.46536	2412268.82185
519	1892	7	16.5221	1892.53968	2412296.02211
520	1892	8	12.7424	1892.61405	2412296.02211
521	1892	9	8.9920	1892.68850	2412350.49197
522	1892	10	6.2686	1892.76303	2412377.76861
523	1892	11	2.5646	1892.83761	2412405.06462
524	1892	11	29.8752	1892.91223	2412432.37515
525	1892	12	27.2003	1892.98689	2412459.70030
526	1893	1	23.5377	1893.06175	2412487.03769
527	1893	2	19.8783	1893.13665	2412514.37831
528	1893	3	19.2002	1893.21151	2412541.70017
529	1893	4	15.4836	1893.28626	2412568.98361
530	1893	5	12.7230	1893.36089	2412596.22304
531	1893	6	8.9303	1893.43543	2412623.43027
532	1893	7	6.1278	1893.50994	2412650.62782
533	1893	8	2.3385	1893.58449	2412677.83851
534	1893	8	29.5764	1893.65911	2412705.07641
535	1893	9	25.8434	1893.73382	2412732.34337
536	1893	10	23.1327	1893.80858	2412759.63270
537	1893	11	19.4377	1893.88339	2412786.93772
538	1893	12	16.7563	1893.95824	2412814.25693
539	1894	1	13.0897	1894.03312	2412841.58968
540	1894	2	9.4314	1894.10803	2412868.93145

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541	1894	3	8.7634	1894.18291	2412896.26336
542	1894	4	5.0635	1894.25771	2412923.56353
543	1894	5	2.3198	1894.33238	2412950.81978
544	1894	5	29.5374	1894.40695	2412978.03744
545	1894	6	25.7360	1894.48147	2413005.23600
546	1894	7	22.9394	1894.55600	2413032.43936
547	1894	8	19.1658	1894.63059	2413059.66579
548	1894	9	15.4219	1894.70527	2413086.92186
549	1894	10	12.7033	1894.78001	2413114.20333
550	1894	11	9.0026	1894.85480	2413141.50257
551	1894	12	6.3160	1894.92963	2413141.50257
552	1895	1	2.6431	1895.00450	2413196.14309
553	1895	1	29.9832	1895.07941	2413223.48319
554	1895	2	26.3216	1895.15431	2413250.82163
555	1895	3	25.6365	1895.22914	2413278.13652
556	1895	4	21.9104	1895.30386	2413305.41037
557	1895	5	19.1414	1895.37847	2413332.64145
558	1895	6	15.3447	1895.45300	2413359.84464
559	1895	7	12.5434	1895.52752	2413387.04343
560	1895	8	8.7593	1895.60208	2413414.25931
561	1895	9	5.0038	1895.67672	2413441.50377
562	1895	10	2.2762	1895.75144	2413468.77624
563	1895	10	29.5693	1895.82622	2413496.06933
564	1895	11	25.8773	1895.90103	2413523.37733
565	1895	12	23.1998	1895.97589	2413550.69978
566	1896	1	19.5352	1896.05064	2413578.03523
567	1896	2	15.8768	1896.12535	2413605.37676
568	1896	3	14.2036	1896.20001	2413632.70355
569	1896	4	10.4947	1896.27458	2413659.99465
570	1896	5	7.7414	1896.34902	2413687.24139
571	1896	6	3.9528	1896.42337	2413714.45281
572	1896	7	1.1503	1896.49768	2413741.65029
573	1896	7	28.3573	1896.57201	2413768.85733
574	1896	8	24.5900	1896.64642	2413796.09000
575	1896	9	20.8522	1896.72091	2413823.35221
576	1896	10	18.1382	1896.79546	2413850.63823
577	1896	11	14.4408	1896.87006	2413877.94080
578	1896	12	11.7575	1896.94469	2413905.25751
579	1897	1	8.0879	1897.01942	2413932.58792
580	1897	2	4.4293	1897.09433	2413959.92932
581	1897	3	3.7646	1897.16922	2413987.26457
582	1897	3	31.0715	1897.24403	2414014.57152
583	1897	4	27.3355	1897.31873	2414041.83545
584	1897	5	24.5586	1897.39331	2414069.05862
585	1897	6	20.7587	1897.46783	2414096.25868
586	1897	7	17.9596	1897.54235	2414123.45957
587	1897	8	14.1812	1897.61693	2414150.68117
588	1897	9	10.4322	1897.69160	2414177.93223
589	1897	10	7.7100	1897.76633	2414205.21000
590	1897	11	4.0067	1897.84111	2414232.50674
591	1897	12	1.3178	1897.91594	2414259.81782
592	1897	12	28.6435	1897.99080	2414287.14348
593	1898	1	24.9811	1898.06570	2414314.48110
594	1898	2	21.3212	1898.14061	2414341.82120
595	1898	3	20.6416	1898.21546	2414369.14163
596	1898	4	16.9231	1898.29020	2414396.42314

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597	1898	5	14.1609	1898.36482	2414423.66087
598	1898	6	10.3673	1898.43936	2414450.86726
599	1898	7	7.5651	1898.51388	2414478.06506
600	1898	8	3.7768	1898.58843	2414505.27681
601	1898	8	31.0161	1898.66306	2414532.51609
602	1898	9	27.2842	1898.73776	2414559.78420
603	1898	10	24.5743	1898.81253	2414559.78420
604	1898	11	20.8799	1898.88734	2414614.37991
605	1898	12	18.1997	1898.96219	2414641.69973
606	1899	1	14.5330	1899.03708	2414669.03302
607	1899	2	10.8748	1899.11199	2414696.37484
608	1899	3	10.2059	1899.18687	2414723.70586
609	1899	4	6.5043	1899.26166	2414751.00432
610	1899	5	3.7587	1899.33633	2414778.25869
611	1899	5	30.9750	1899.41089	2414805.47502
612	1899	6	27.1732	1899.48541	2414832.67321
613	1899	7	24.3771	1899.55994	2414859.87713
614	1899	8	20.6047	1899.63453	2414887.10464
615	1899	9	16.8619	1899.70921	2414914.36184
616	1899	10	14.1442	1899.78396	2414941.64419
617	1899	11	10.4441	1899.85875	2414968.94411
618	1899	12	7.7583	1899.93358	2414996.25825
619	1900	1	4.0862	1900.00846	2415023.58616
620	1900	1	31.4267	1900.08336	2415050.92672
621	1900	2	27.7648	1900.15826	2415078.26476
622	1900	3	27.0782	1900.23309	2415105.57823
623	1900	4	23.3502	1900.30781	2415132.85014
624	1900	5	20.5795	1900.38241	2415160.07954
625	1900	6	16.7819	1900.45694	2415187.28191
626	1900	7	13.9809	1900.53145	2415214.48089
627	1900	8	10.1977	1900.60602	2415241.69772
628	1900	9	6.4434	1900.68067	2415268.94340
629	1900	10	3.7169	1900.75539	2415296.21693
630	1900	10	31.0108	1900.83017	2415323.51080
631	1900	11	27.3195	1900.90498	2415350.81949
632	1900	12	24.6427	1900.97984	2415378.14267
633	1901	1	20.9787	1901.05474	2415405.47867
634	1901	2	17.3201	1901.12964	2415432.82006
635	1901	3	16.6457	1901.20451	2415460.14571
636	1901	4	12.9349	1901.27927	2415487.43493
637	1901	5	10.1798	1901.35392	2415514.67983
638	1901	6	6.3901	1901.42847	2415541.89013
639	1901	7	3.5875	1901.50298	2415569.08755
640	1901	7	30.7954	1901.57752	2415596.29541
641	1901	8	27.0293	1901.65214	2415623.52934
642	1901	9	23.2927	1901.72683	2415650.79270
643	1901	10	20.5795	1901.80159	2415678.07951
644	1901	11	16.8827	1901.87639	2415705.38265
645	1901	12	14.1999	1901.95123	2415732.69993
646	1902	1	10.5309	1902.02611	2415760.03091
647	1902	2	6.8725	1902.10102	2415787.37249
648	1902	3	6.2071	1902.17591	2415814.70708
649	1902	4	2.5125	1902.25072	2415842.01253
650	1902	4	29.7747	1902.32541	2415869.27472
651	1902	5	26.9966	1902.39999	2415896.49661
652	1902	6	23.1963	1902.47451	2415923.69630

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653	1902	7	20.3977	1902.54903	2415950.89773
654	1902	8	16.6204	1902.62362	2415978.12038
655	1902	9	12.8725	1902.69828	2416005.37249
656	1902	10	10.1510	1902.77302	2416032.65097
657	1902	11	6.4481	1902.84780	2416059.94811
658	1902	12	3.7596	1902.92263	2416087.25962
659	1902	12	31.0859	1902.99750	2416114.58584
660	1903	1	27.4239	1903.07239	2416141.92390
661	1903	2	23.7638	1903.14730	2416169.26384
662	1903	3	23.0832	1903.22215	2416196.58322
663	1903	4	19.3631	1903.29689	2416223.86310
664	1903	5	16.5994	1903.37151	2416251.09938
665	1903	6	12.8050	1903.44604	2416278.30503
666	1903	7	10.0030	1903.52056	2416305.50301
667	1903	8	6.2156	1903.59511	2416332.71561
668	1903	9	2.4560	1903.66974	2416359.95597
669	1903	9	29.7250	1903.74445	2416387.22495
670	1903	10	27.0156	1903.81922	2416414.51560
671	1903	11	23.3217	1903.89403	2416441.82166
672	1903	12	20.6421	1903.96888	2416469.14208
673	1904	1	16.9760	1904.04365	2416496.47596
674	1904	2	13.3179	1904.11835	2416523.81787
675	1904	3	11.6481	1904.19303	2416551.14808
676	1904	4	7.9449	1904.26761	2416578.44493
677	1904	5	5.1975	1904.34207	2416605.69755
678	1904	6	1.4127	1904.41643	2416632.91269
679	1904	6	28.6107	1904.49074	2416660.11065
680	1904	7	25.8153	1904.56507	2416687.31524
681	1904	8	22.0439	1904.63946	2416714.54392
682	1904	9	18.3023	1904.71394	2416741.80227
683	1904	10	15.5854	1904.78848	2416769.08543
684	1904	11	11.8859	1904.86308	2416796.38589
685	1904	12	9.2006	1904.93771	2416823.70057
686	1905	1	5.5291	1905.01241	2416851.02904
687	1905	2	1.8698	1905.08731	2416878.36984
688	1905	3	1.2073	1905.16221	2416905.70728
689	1905	3	28.5193	1905.23704	2416933.01928
690	1905	4	24.7894	1905.31175	2416960.28938
691	1905	5	22.0174	1905.38635	2416987.51735
692	1905	6	18.2193	1905.46087	2417014.71926
693	1905	7	15.4188	1905.53539	2417041.91877
694	1905	8	11.6368	1905.60996	2417069.13683
695	1905	9	7.8838	1905.68461	2417096.38383
696	1905	10	5.1583	1905.75934	2417123.65831
697	1905	11	1.4527	1905.83412	2417150.95271
698	1905	11	28.7618	1905.90894	2417178.26176
699	1905	12	26.0853	1905.98380	2417205.58531
700	1906	1	22.4216	1906.05869	2417232.92155
701	1906	2	18.7626	1906.13360	2417260.26259
702	1906	3	18.0871	1906.20846	2417287.58706
703	1906	4	14.3746	1906.28322	2417314.87456
704	1906	5	11.6179	1906.35786	2417342.11791
705	1906	6	7.8275	1906.43240	2417369.32744
706	1906	7	5.0251	1906.50692	2417396.52512
707	1906	8	1.2340	1906.58146	2417396.52512
708	1906	8	28.4693	1906.65608	2417450.96929

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709	1906	9	24.7338	1906.73078	2417478.23376
710	1906	10	22.0212	1906.80554	2417505.52123
711	1906	11	18.3248	1906.88034	2417532.82476
712	1906	12	15.6425	1906.95518	2417560.14247
713	1907	1	11.9739	1907.03007	2417587.47388
714	1907	2	8.3155	1907.10497	2417614.81550
715	1907	3	7.6493	1907.17986	2417614.81550
716	1907	4	3.9532	1907.25467	2417669.45321
717	1907	5	1.2136	1907.32935	2417696.71362
718	1907	5	28.4342	1907.40393	2417723.93424
719	1907	6	24.6336	1907.47845	2417751.13360
720	1907	7	21.8356	1907.55297	2417778.33562
721	1907	8	18.0594	1907.62756	2417805.55943
722	1907	9	14.3128	1907.70223	2417832.81274
723	1907	10	11.5921	1907.77696	2417860.09211
724	1907	11	7.8899	1907.85175	2417887.38986
725	1907	12	5.2019	1907.92658	2417914.70194
726	1908	1	1.5278	1908.00144	2417942.02775
727	1908	1	28.8672	1908.07614	2417969.36723
728	1908	2	25.2068	1908.15084	2417996.70677
729	1908	3	23.5248	1908.22548	2418024.02477
730	1908	4	19.8027	1908.30001	2418051.30274
731	1908	5	17.0373	1908.37442	2418078.53730
732	1908	6	13.2421	1908.44875	2418105.74212
733	1908	7	10.4403	1908.52306	2418132.94031
734	1908	8	6.6540	1908.59742	2418160.15397
735	1908	9	2.8957	1908.67185	2418187.39569
736	1908	9	30.1659	1908.74635	2418214.66587
737	1908	10	27.4574	1908.82092	2418241.95738
738	1908	11	23.7641	1908.89553	2418269.26411
739	1908	12	21.0852	1908.97018	2418296.58517
740	1909	1	17.4195	1909.04498	2418323.91951
741	1909	2	13.7612	1909.11989	2418351.26124
742	1909	3	13.0903	1909.19477	2418378.59025
743	1909	4	9.3852	1909.26955	2418405.88516
744	1909	5	6.6358	1909.34421	2418433.13580
745	1909	6	2.8497	1909.41877	2418460.34969
746	1909	6	30.0475	1909.49328	2418487.54750
747	1909	7	27.2530	1909.56782	2418514.75294
748	1909	8	23.4830	1909.64242	2418541.98302
749	1909	9	19.7427	1909.71710	2418569.24273
750	1909	10	17.0269	1909.79185	2418596.52689
751	1909	11	13.3281	1909.86665	2418623.82806
752	1909	12	10.6434	1909.94149	2418651.14336
753	1910	1	6.9724	1910.01636	2418678.47240
754	1910	2	3.3133	1910.09127	2418705.81334
755	1910	3	2.6501	1910.16616	2418733.15009
756	1910	3	29.9605	1910.24099	2418760.46051
757	1910	4	26.2287	1910.31569	2418787.72865
758	1910	5	23.4551	1910.39029	2418814.95510
759	1910	6	19.6564	1910.46481	2418842.15641
760	1910	7	16.8564	1910.53933	2418869.35635
761	1910	8	13.0755	1910.61391	2418896.57549
762	1910	9	9.3237	1910.68856	2418923.82370
763	1910	10	6.5992	1910.76329	2418951.09914
764	1910	11	2.8942	1910.83807	2418978.39420

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765	1910	11	30.2038	1910.91289	2419005.70383
766	1910	12	27.5281	1910.98775	2419033.02807
767	1911	1	23.8649	1911.06264	2419060.36485
768	1911	2	20.2058	1911.13755	2419087.70578
769	1911	3	19.5291	1911.21241	2419115.02914
770	1911	4	15.8149	1911.28716	2419142.31486
771	1911	5	13.0565	1911.36180	2419169.55646
772	1911	6	9.2649	1911.43634	2419196.76493
773	1911	7	6.4625	1911.51086	2419196.76493
774	1911	8	2.6721	1911.58540	2419251.17214
775	1911	8	29.9085	1911.66002	2419278.40852
776	1911	9	26.1740	1911.73472	2419305.67403
777	1911	10	23.4623	1911.80949	2419332.96230
778	1911	11	19.7665	1911.88429	2419360.26653
779	1911	12	17.0850	1911.95914	2419387.58505
780	1912	1	13.4173	1912.03393	2419414.91725
781	1912	2	9.7592	1912.10863	2419442.25914
782	1912	3	8.0923	1912.18331	2419469.59226
783	1912	4	4.3945	1912.25791	2419496.89448
784	1912	5	1.6529	1912.33238	2419524.15289
785	1912	5	28.8720	1912.40675	2419551.37197
786	1912	6	25.0707	1912.48107	2419578.57073
787	1912	7	22.2731	1912.55539	2419605.77314
788	1912	8	18.4980	1912.62978	2419632.99796
789	1912	9	14.7525	1912.70424	2419660.25245
790	1912	10	12.0328	1912.77878	2419687.53279
791	1912	11	8.3313	1912.85336	2419714.83133
792	1912	12	5.6442	1912.92799	2419742.14419
793	1913	1	1.9708	1913.00266	2419769.47082
794	1913	1	29.3108	1913.07756	2419796.81081
795	1913	2	25.6500	1913.15247	2419824.15001
796	1913	3	24.9667	1913.22731	2419851.46666
797	1913	4	21.2427	1913.30203	2419878.74270
798	1913	5	18.4756	1913.37665	2419905.97557
799	1913	6	14.6795	1913.45118	2419933.17953
800	1913	7	11.8779	1913.52569	2419960.37788
801	1913	8	8.0925	1913.60025	2419987.59248
802	1913	9	4.3354	1913.67489	2420014.83538
803	1913	10	1.6066	1913.74961	2420042.10655
804	1913	10	28.8987	1913.82438	2420069.39873
805	1913	11	25.2060	1913.89919	2420096.70598
806	1913	12	22.5277	1913.97405	2420124.02766
807	1914	1	18.8625	1914.04894	2420151.36253
808	1914	2	15.2042	1914.12385	2420178.70424
809	1914	3	14.5323	1914.19872	2420206.03235
810	1914	4	10.8256	1914.27349	2420233.32563
811	1914	5	8.0746	1914.34815	2420260.57458
812	1914	6	4.2874	1914.42271	2420287.78742
813	1914	7	1.4851	1914.49722	2420314.98514
814	1914	7	28.6913	1914.57176	2420342.19130
815	1914	8	24.9225	1914.64636	2420369.42248
816	1914	9	21.1832	1914.72105	2420396.68317
817	1914	10	18.4680	1914.79580	2420423.96797
818	1914	11	14.7696	1914.87060	2420451.26959
819	1914	12	12.0854	1914.94544	2420478.58543
820	1915	1	8.4151	1915.02032	2420505.91513

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821	1915	2	4.7564	1915.09522	2420533.25644
822	1915	3	4.0928	1915.17012	2420560.59275
823	1915	3	31.4019	1915.24494	2420587.90186
824	1915	4	27.6683	1915.31964	2420615.16830
825	1915	5	24.8934	1915.39423	2420642.39337
826	1915	6	21.0941	1915.46875	2420669.59410
827	1915	7	18.2944	1915.54327	2420696.79434
828	1915	8	14.5144	1915.61785	2420724.01437
829	1915	9	10.7636	1915.69250	2420751.26360
830	1915	10	8.0398	1915.76723	2420778.53981
831	1915	11	4.3354	1915.84201	2420805.83541
832	1915	12	1.6456	1915.91684	2420833.14561
833	1915	12	28.9706	1915.99170	2420860.47056
834	1916	1	25.3079	1916.06642	2420887.80792
835	1916	2	21.6488	1916.14112	2420915.14875
836	1916	3	19.9711	1916.21577	2420942.47106
837	1916	4	16.2551	1916.29031	2420969.75507
838	1916	5	13.4950	1916.36474	2420996.99499
839	1916	6	9.7025	1916.43908	2421024.20251
840	1916	7	6.9001	1916.51339	2421051.40012
841	1916	8	3.1106	1916.58773	2421078.61061
842	1916	8	30.3482	1916.66215	2421105.84819
843	1916	9	26.6148	1916.73665	2421133.11477
844	1916	10	23.9038	1916.81121	2421160.40377
845	1916	11	20.2086	1916.88582	2421187.70855
846	1916	12	17.5276	1916.96046	2421215.02764
847	1917	1	13.8604	1917.03523	2421242.36035
848	1917	2	10.2023	1917.11014	2421269.70225
849	1917	3	9.5344	1917.18503	2421297.03443
850	1917	4	5.8350	1917.25982	2421324.33495
851	1917	5	3.0915	1917.33450	2421351.59152
852	1917	5	30.3094	1917.40907	2421378.80935
853	1917	6	26.5079	1917.48358	2421406.00791
854	1917	7	23.7111	1917.55811	2421433.21109
855	1917	8	19.9372	1917.63270	2421460.43725
856	1917	9	16.1930	1917.70738	2421487.69302
857	1917	10	13.4743	1917.78212	2421514.97427
858	1917	11	9.7734	1917.85691	2421542.27336
859	1917	12	7.0867	1917.93174	2421569.58668
860	1918	1	3.4138	1918.00661	2421596.91377
861	1918	1	30.7539	1918.08152	2421624.25395
862	1918	2	27.0926	1918.15642	2421651.59257
863	1918	3	26.4078	1918.23125	2421678.90780
864	1918	4	22.6820	1918.30598	2421706.18204
865	1918	5	19.9134	1918.38058	2421733.41345
866	1918	6	16.1168	1918.45511	2421760.61683
867	1918	7	13.3156	1918.52963	2421787.81562
868	1918	8	9.5313	1918.60420	2421815.03134
869	1918	9	5.7755	1918.67884	2421842.27552
870	1918	10	3.0477	1918.75356	2421869.54766
871	1918	10	30.3404	1918.82833	2421896.84042
872	1918	11	26.6481	1918.90315	2421924.14810
873	1918	12	23.9703	1918.97800	2421951.47028
874	1919	1	20.3056	1919.05289	2421978.80557
875	1919	2	16.6471	1919.12780	2422006.14714
876	1919	3	15.9742	1919.20267	2422033.47421



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877	1919	4	12.2658	1919.27744	2422060.76576
878	1919	5	9.5130	1919.35209	2422088.01300
879	1919	6	5.7248	1919.42664	2422115.22479
880	1919	7	2.9225	1919.50116	2422142.42244
881	1919	7	30.1294	1919.57570	2422169.62943
882	1919	8	26.3619	1919.65031	2422196.86186
883	1919	9	22.6238	1919.72500	2422224.12375
884	1919	10	19.9094	1919.79975	2422251.40943
885	1919	11	16.2117	1919.87455	2422278.71170
886	1919	12	13.5282	1919.94939	2422306.02819
887	1920	1	9.8585	1920.02420	2422333.35852
888	1920	2	6.2000	1920.09891	2422333.35852
889	1920	3	4.5356	1920.17359	2422388.03556
890	1920	3	31.8430	1920.24820	2422415.34294
891	1920	4	28.1073	1920.32270	2422442.60731
892	1920	5	25.3308	1920.39708	2422469.83076
893	1920	6	21.5309	1920.47140	2422497.03088
894	1920	7	18.7316	1920.54571	2422524.23157
895	1920	8	14.9528	1920.62009	2422551.45280
896	1920	9	11.2034	1920.69454	2422578.70345
897	1920	10	8.4808	1920.76907	2422605.98084
898	1920	11	4.7773	1920.84365	2422633.27733
899	1920	12	2.0883	1920.91827	2422660.58829
900	1920	12	29.4140	1920.99293	2422687.91395
901	1921	1	25.7517	1921.06781	2422715.25169
902	1921	2	22.0921	1921.14272	2422742.59208
903	1921	3	21.4129	1921.21757	2422769.91293
904	1921	4	17.6948	1921.29231	2422797.19484
905	1921	5	14.9329	1921.36694	2422824.43288
906	1921	6	11.1394	1921.44148	2422851.63941
907	1921	7	8.3372	1921.51599	2422878.83715
908	1921	8	4.5487	1921.59054	2422906.04868
909	1921	8	31.7877	1921.66517	2422933.28770
910	1921	9	28.0556	1921.73988	2422933.28770
911	1921	10	25.3455	1921.81465	2422987.84546
912	1921	11	21.6509	1921.88945	2423015.15090
913	1921	12	18.9706	1921.96430	2423042.47063
914	1922	1	15.3038	1922.03919	2423069.80382
915	1922	2	11.6456	1922.11410	2423097.14564
916	1922	3	10.9768	1922.18898	2423124.47679
917	1922	4	7.2755	1922.26377	2423151.77549
918	1922	5	4.5301	1922.33844	2423179.03012
919	1922	5	31.7466	1922.41300	2423206.24664
920	1922	6	27.9449	1922.48752	2423233.44491
921	1922	7	25.1488	1922.56205	2423260.64877
922	1922	8	21.3762	1922.63665	2423287.87617
923	1922	9	17.6332	1922.71132	2423315.13321
924	1922	10	14.9154	1922.78607	2423342.41541
925	1922	11	11.2152	1922.86086	2423369.71520
926	1922	12	8.5292	1922.93570	2423397.02920
927	1923	1	4.8570	1923.01057	2423424.35703
928	1923	2	1.1976	1923.08547	2423451.69759
929	1923	2	28.5358	1923.16037	2423479.03578
930	1923	3	27.8496	1923.23520	2423506.34956
931	1923	4	24.1218	1923.30992	2423533.62184
932	1923	5	21.3515	1923.38452	2423560.85153

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933	1923	6	17.5540	1923.45905	2423588.05404
934	1923	7	14.7529	1923.53357	2423615.25294
935	1923	8	10.9695	1923.60814	2423642.46953
936	1923	9	7.2149	1923.68278	2423669.71486
937	1923	10	4.4880	1923.75750	2423696.98802
938	1923	10	31.7816	1923.83228	2423724.28159
939	1923	11	28.0901	1923.90710	2423751.59006
940	1923	12	25.4131	1923.98195	2423778.91312
941	1924	1	21.7492	1924.05669	2423806.24916
942	1924	2	18.0908	1924.13140	2423833.59075
943	1924	3	16.4168	1924.20606	2423860.91678
944	1924	4	12.7065	1924.28062	2423888.20646
945	1924	5	9.9517	1924.35506	2423915.45172
946	1924	6	6.1622	1924.42941	2423942.66222
947	1924	7	3.3596	1924.50371	2423969.85961
948	1924	7	30.5673	1924.57805	2423997.06725
949	1924	8	26.8009	1924.65246	2424024.30086
950	1924	9	23.0639	1924.72695	2424051.56394
951	1924	10	20.3506	1924.80150	2424078.85054
952	1924	11	16.6536	1924.87610	2424106.15359
953	1924	12	13.9709	1924.95074	2424133.47086
954	1925	1	10.3019	1925.02548	2424160.80190
955	1925	2	6.6436	1925.10039	2424188.14361
956	1925	3	5.9784	1925.17528	2424215.47840
957	1925	4	2.2841	1925.25009	2424242.78411
958	1925	4	29.5465	1925.32478	2424270.04646
959	1925	5	26.7684	1925.39937	2424297.26839
960	1925	6	22.9680	1925.47388	2424324.46795
961	1925	7	20.1691	1925.54841	2424351.66913
962	1925	8	16.3915	1925.62299	2424378.89152
963	1925	9	12.6434	1925.69765	2424406.14341
964	1925	10	9.9218	1925.77239	2424433.42179
965	1925	11	6.2190	1925.84718	2424460.71896
966	1925	12	3.5305	1925.92200	2424488.03052
967	1925	12	30.8569	1925.99687	2424515.35684
968	1926	1	27.1950	1926.07177	2424542.69501
969	1926	2	23.5351	1926.14667	2424570.03510
970	1926	3	22.8547	1926.22152	2424597.35471
971	1926	4	19.1348	1926.29626	2424624.63484
972	1926	5	16.3713	1926.37088	2424651.87127
973	1926	6	12.5770	1926.44542	2424679.07698
974	1926	7	9.7749	1926.51993	2424706.27487
975	1926	8	5.9873	1926.59449	2424733.48729
976	1926	9	2.2274	1926.66912	2424760.72743
977	1926	9	29.4962	1926.74383	2424787.99619
978	1926	10	26.7867	1926.81859	2424815.28668
979	1926	11	23.0926	1926.89340	2424842.59258
980	1926	12	20.4129	1926.96825	2424869.91287
981	1927	1	16.7467	1927.04314	2424897.24667
982	1927	2	13.0886	1927.11805	2424924.58862
983	1927	3	12.4190	1927.19293	2424951.91902
984	1927	4	8.7162	1927.26772	2424979.21618
985	1927	5	5.9691	1927.34238	2425006.46911
986	1927	6	2.1845	1927.41694	2425033.68448
987	1927	6	29.3825	1927.49146	2425060.88251
988	1927	7	26.5870	1927.56599	2425088.08699

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989	1927	8	22.8155	1927.64059	2425115.31547
990	1927	9	19.0736	1927.71527	2425142.57358
991	1927	10	16.3565	1927.79002	2425169.85654
992	1927	11	12.6569	1927.86481	2425197.15687
993	1927	12	9.9715	1927.93965	2425224.47148
994	1928	1	6.3000	1928.01448	2425251.79997
995	1928	2	2.6409	1928.08918	2425279.14088
996	1928	2	29.9786	1928.16388	2425306.47856
997	1928	3	28.2909	1928.23850	2425333.79090
998	1928	4	24.5613	1928.31301	2425361.06127
999	1928	5	21.7894	1928.38740	2425388.28940
1000	1928	6	17.9912	1928.46172	2425415.49123
1001	1928	7	15.1905	1928.53604	2425442.69049
1002	1928	8	11.4082	1928.61040	2425469.90816
1003	1928	9	7.6548	1928.68485	2425497.15479
1004	1928	10	4.9290	1928.75937	2425524.42902
1005	1928	11	1.2233	1928.83394	2425551.72330
1006	1928	11	28.5324	1928.90856	2425579.03236
1007	1928	12	25.8560	1928.98321	2425606.35603
1008	1929	1	22.1925	1929.05806	2425633.69244
1009	1929	2	18.5338	1929.13297	2425661.03375
1010	1929	3	17.8585	1929.20783	2425688.35854
1011	1929	4	14.1464	1929.28259	2425715.64634
1012	1929	5	11.3899	1929.35723	2425742.88987
1013	1929	6	7.5994	1929.43178	2425770.09943
1014	1929	7	4.7970	1929.50629	2425797.29697
1015	1929	8	1.0057	1929.58084	2425824.50566
1016	1929	8	28.2407	1929.65545	2425851.74068
1017	1929	9	24.5050	1929.73015	2425879.00498
1018	1929	10	21.7924	1929.80491	2425906.29237
1019	1929	11	18.0959	1929.87971	2425933.59587
1020	1929	12	15.4136	1929.95456	2425960.91354
1021	1930	1	11.7449	1930.02944	2425988.24492
1022	1930	2	8.0865	1930.10435	2426015.58653
1023	1930	3	7.4204	1930.17923	2426042.92042
1024	1930	4	3.7245	1930.25404	2426070.22444
1025	1930	4	30.9850	1930.32873	2426097.48501
1026	1930	5	28.2057	1930.40330	2426124.70573
1027	1930	6	24.4051	1930.47782	2426151.90510
1028	1930	7	21.6071	1930.55235	2426179.10707
1029	1930	8	17.8308	1930.62693	2426206.33079
1030	1930	9	14.0840	1930.70160	2426206.33079
1031	1930	10	11.3633	1930.77634	2426260.86333
1032	1930	11	7.6611	1930.85113	2426288.16105
1033	1930	12	4.9731	1930.92595	2426315.47308
1034	1931	1	1.2988	1931.00082	2426342.79882
1035	1931	1	28.6383	1931.07572	2426370.13829
1036	1931	2	24.9779	1931.15062	2426397.47792
1037	1931	3	24.2961	1931.22547	2426424.79612
1038	1931	4	20.5744	1931.30020	2426452.07436
1039	1931	5	17.8092	1931.37482	2426479.30916
1040	1931	6	14.0141	1931.44935	2426506.51406
1041	1931	7	11.2122	1931.52387	2426533.71219
1042	1931	8	7.4257	1931.59843	2426560.92566
1043	1931	9	3.6671	1931.67306	2426588.16712
1044	1931	9	30.9370	1931.74777	2426615.43703

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1045	1931	10	28.2283	1931.82254	2426642.72832
1046	1931	11	24.5349	1931.89736	2426670.03487
1047	1931	12	21.8558	1931.97221	2426697.35583
1048	1932	1	18.1902	1932.04697	2426724.69016
1049	1932	2	14.5320	1932.12167	2426752.03200
1050	1932	3	12.8613	1932.19634	2426779.36130
1051	1932	4	9.1566	1932.27092	2426806.65655
1052	1932	5	6.4075	1932.34538	2426833.90750
1053	1932	6	2.6216	1932.41973	2426861.12156
1054	1932	6	29.8194	1932.49404	2426888.31939
1055	1932	7	27.0247	1932.56837	2426915.52469
1056	1932	8	23.2546	1932.64277	2426942.75456
1057	1932	9	19.5141	1932.71725	2426970.01407
1058	1932	10	16.7981	1932.79180	2426997.29813
1059	1932	11	13.0992	1932.86639	2427024.59924
1060	1932	12	10.4145	1932.94102	2427051.91453
1061	1933	1	6.7436	1933.01574	2427079.24356
1062	1933	2	3.0845	1933.09064	2427106.58454
1063	1933	3	2.4214	1933.16554	2427133.92137
1064	1933	3	29.7319	1933.24036	2427161.23190
1065	1933	4	26.0002	1933.31507	2427188.50014
1066	1933	5	23.2266	1933.38966	2427215.72661
1067	1933	6	19.4278	1933.46419	2427242.92784
1068	1933	7	16.6276	1933.53871	2427270.12763
1069	1933	8	12.8466	1933.61328	2427297.34661
1070	1933	9	9.0948	1933.68793	2427324.59476
1071	1933	10	6.3702	1933.76266	2427351.87021
1072	1933	11	2.6653	1933.83744	2427379.16534
1073	1933	11	29.9751	1933.91226	2427406.47505
1074	1933	12	27.2993	1933.98712	2427406.47505
1075	1934	1	23.6361	1934.06202	2427461.13608
1076	1934	2	19.9770	1934.13692	2427488.47701
1077	1934	3	19.3005	1934.21178	2427515.80045
1078	1934	4	15.5863	1934.28654	2427543.08631
1079	1934	5	12.8280	1934.36117	2427570.32802
1080	1934	6	9.0366	1934.43572	2427597.53657
1081	1934	7	6.2342	1934.51023	2427624.73416
1082	1934	8	2.4438	1934.58478	2427651.94376
1083	1934	8	29.6801	1934.65940	2427679.18007
1084	1934	9	25.9455	1934.73410	2427706.44552
1085	1934	10	23.2337	1934.80886	2427733.73372
1086	1934	11	19.5378	1934.88367	2427761.03782
1087	1934	12	16.8562	1934.95851	2427788.35616
1088	1935	1	13.1882	1935.03339	2427815.68816
1089	1935	2	9.5299	1935.10830	2427843.02993
1090	1935	3	8.8630	1935.18319	2427870.36304
1091	1935	4	5.1654	1935.25799	2427897.66544
1092	1935	5	2.4241	1935.33267	2427924.92409
1093	1935	5	29.6434	1935.40724	2427952.14339
1094	1935	6	25.8423	1935.48176	2427979.34229
1095	1935	7	23.0448	1935.55629	2428006.54475
1096	1935	8	19.2696	1935.63088	2428033.76955
1097	1935	9	15.5240	1935.70555	2428061.02397
1098	1935	10	12.8042	1935.78029	2428088.30425
1099	1935	11	9.1027	1935.85508	2428115.60270
1100	1935	12	6.4155	1935.92991	2428142.91547

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1101	1936	1	2.7420	1936.00476	2428170.24201
1102	1936	1	30.0820	1936.07946	2428197.58197
1103	1936	2	26.4212	1936.15416	2428224.92122
1104	1936	3	24.7380	1936.22879	2428252.23802
1105	1936	4	21.0142	1936.30332	2428279.51424
1106	1936	5	18.2472	1936.37772	2428306.74721
1107	1936	6	14.4512	1936.45205	2428333.95116
1108	1936	7	11.6494	1936.52636	2428361.14938
1109	1936	8	7.8638	1936.60072	2428388.36377
1110	1936	9	4.1065	1936.67515	2428415.60649
1111	1936	10	1.3775	1936.74967	2428442.87755
1112	1936	10	28.6697	1936.82423	2428470.16969
1113	1936	11	24.9770	1936.89884	2428497.47697
1114	1936	12	22.2987	1936.97349	2428524.79869
1115	1937	1	18.6336	1937.04831	2428552.13361
1116	1937	2	14.9754	1937.12322	2428579.47542
1117	1937	3	14.3037	1937.19809	2428606.80366
1118	1937	4	10.5971	1937.27287	2428634.09709
1119	1937	5	7.8462	1937.34752	2428661.34617
1120	1937	6	4.0591	1937.42208	2428688.55906
1121	1937	7	1.2567	1937.49659	2428715.75672
1122	1937	7	28.4628	1937.57113	2428742.96281
1123	1937	8	24.6939	1937.64574	2428770.19392
1124	1937	9	20.9546	1937.72042	2428797.45459
1125	1937	10	18.2394	1937.79518	2428824.73942
1126	1937	11	14.5411	1937.86998	2428852.04105
1127	1937	12	11.8568	1937.94481	2428879.35684
1128	1938	1	8.1864	1938.01969	2428906.68640
1129	1938	2	4.5276	1938.09460	2428934.02756
1130	1938	3	3.8638	1938.16949	2428961.36377
1131	1938	3	31.1729	1938.24431	2428988.67287
1132	1938	4	27.4394	1938.31901	2429015.93936
1133	1938	5	24.6645	1938.39360	2429043.16453
1134	1938	6	20.8653	1938.46812	2429070.36534
1135	1938	7	18.0656	1938.54265	2429097.56565
1136	1938	8	14.2857	1938.61722	2429124.78573
1137	1938	9	10.5350	1938.69188	2429152.03502
1138	1938	10	7.8113	1938.76661	2429179.31128
1139	1938	11	4.1069	1938.84139	2429206.60689
1140	1938	12	1.4170	1938.91621	2429233.91703
1141	1938	12	28.7419	1938.99107	2429261.24184
1142	1939	1	25.0791	1939.06597	2429288.57906
1143	1939	2	21.4199	1939.14088	2429315.91985
1144	1939	3	20.7422	1939.21573	2429343.24223
1145	1939	4	17.0264	1939.29048	2429370.52642
1146	1939	5	14.2666	1939.36511	2429397.76655
1147	1939	6	10.4742	1939.43966	2429424.97422
1148	1939	7	7.6719	1939.51417	2429452.17188
1149	1939	8	3.8823	1939.58872	2429479.38230
1150	1939	8	31.1197	1939.66334	2429506.61973
1151	1939	9	27.3861	1939.73804	2429533.88613
1152	1939	10	24.6750	1939.81281	2429561.17494
1153	1939	11	20.9795	1939.88762	2429588.47955
1154	1939	12	18.2985	1939.96246	2429615.79847
1155	1940	1	14.6311	1940.03724	2429643.13106
1156	1940	2	10.9730	1940.11195	2429670.47297

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1157	1940	3	9.3053	1940.18663	2429697.80531
1158	1940	4	5.6061	1940.26122	2429725.10612
1159	1940	5	2.8630	1940.33569	2429752.36299
1160	1940	5	30.0811	1940.41006	2429779.58105
1161	1940	6	26.2797	1940.48437	2429806.77970
1162	1940	7	23.4829	1940.55870	2429833.98286
1163	1940	8	19.7089	1940.63308	2429861.20890
1164	1940	9	15.9646	1940.70755	2429888.46456
1165	1940	10	13.2457	1940.78209	2429915.74571
1166	1940	11	9.5447	1940.85668	2429943.04472
1167	1940	12	6.8580	1940.93131	2429970.35796
1168	1941	1	3.1850	1941.00599	2429997.68497
1169	1941	1	30.5251	1941.08089	2430025.02507
1170	1941	2	26.8637	1941.15579	2430052.36369
1171	1941	3	26.1790	1941.23063	2430079.67898
1172	1941	4	22.4533	1941.30535	2430106.95332
1173	1941	5	19.6848	1941.37996	2430134.18480
1174	1941	6	15.8882	1941.45449	2430161.38822
1175	1941	7	13.0870	1941.52901	2430188.58697
1176	1941	8	9.3026	1941.60357	2430215.80264
1177	1941	9	5.5468	1941.67821	2430243.04679
1178	1941	10	2.8189	1941.75293	2430270.31895
1179	1941	10	30.1117	1941.82770	2430297.61172
1180	1941	11	26.4194	1941.90252	2430324.91940
1181	1941	12	23.7415	1941.97737	2430352.24149
1182	1942	1	20.0767	1942.05226	2430379.57668
1183	1942	2	16.4182	1942.12717	2430406.91817
1184	1942	3	15.7453	1942.20204	2430434.24528
1185	1942	4	12.0370	1942.27681	2430461.53697
1186	1942	5	9.2844	1942.35146	2430488.78440
1187	1942	6	5.4964	1942.42602	2430515.99640
1188	1942	7	2.6942	1942.50053	2430543.19420
1189	1942	7	29.9013	1942.57507	2430570.40126
1190	1942	8	26.1337	1942.64968	2430597.63370
1191	1942	9	22.3955	1942.72437	2430624.89552
1192	1942	10	19.6811	1942.79913	2430652.18105
1193	1942	11	15.9831	1942.87393	2430679.48309
1194	1942	12	13.2993	1942.94877	2430706.79928
1195	1943	1	9.6293	1943.02364	2430734.12928
1196	1943	2	5.9705	1943.09855	2430761.47053
1197	1943	3	5.3060	1943.17344	2430788.80603
1198	1943	4	1.6136	1943.24826	2430816.11360
1199	1943	4	28.8783	1943.32295	2430843.37829
1200	1943	5	26.1021	1943.39754	2430870.60211
1201	1943	6	22.3025	1943.47206	2430897.80253
1202	1943	7	19.5034	1943.54658	2430925.00343
1203	1943	8	15.7247	1943.62116	2430952.22472
1204	1943	9	11.9753	1943.69582	2430979.47531
1205	1943	10	9.2526	1943.77055	2431006.75257
1206	1943	11	5.5489	1943.84534	2431034.04885
1207	1943	12	2.8596	1943.92016	2431061.35957
1208	1943	12	30.1850	1943.99503	2431088.68500
1209	1944	1	26.5226	1944.06973	2431116.02257
1210	1944	2	22.8630	1944.14443	2431143.36294
1211	1944	3	21.1839	1944.21908	2431170.68392
1212	1944	4	17.4661	1944.29362	2431197.96610

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1213	1944	5	14.7044	1944.36804	2431225.20440
1214	1944	6	10.9111	1944.44238	2431252.41110
1215	1944	7	8.1089	1944.51669	2431279.60888
1216	1944	8	4.3203	1944.59104	2431306.82034
1217	1944	8	31.5592	1944.66546	2431334.05919
1218	1944	9	27.8269	1944.73996	2431361.32689
1219	1944	10	25.1167	1944.81453	2431388.61666
1220	1944	11	21.4220	1944.88913	2431415.92196
1221	1944	12	18.7416	1944.96377	2431443.24155
1222	1945	1	15.0747	1945.03856	2431470.57464
1223	1945	2	11.4164	1945.11347	2431497.91645
1224	1945	3	10.7477	1945.18835	2431525.24770
1225	1945	4	7.0466	1945.26314	2431552.54661
1226	1945	5	4.3015	1945.33781	2431579.80149
1227	1945	5	31.5183	1945.41238	2431607.01825
1228	1945	6	27.7167	1945.48689	2431607.01825
1229	1945	7	24.9206	1945.56143	2431661.42060
1230	1945	8	21.1480	1945.63602	2431688.64801
1231	1945	9	17.4050	1945.71070	2431715.90502
1232	1945	10	14.6872	1945.78544	2431743.18715
1233	1945	11	10.9868	1945.86024	2431770.48679
1234	1945	12	8.3006	1945.93507	2431797.80059
1235	1946	1	4.6281	1946.00994	2431825.12811
1236	1946	1	31.9684	1946.08484	2431852.46839
1237	1946	2	28.3064	1946.15974	2431879.80640
1238	1946	3	27.6202	1946.23458	2431907.12019
1239	1946	4	23.8926	1946.30929	2431934.39263
1240	1946	5	21.1226	1946.38390	2431961.62257
1241	1946	6	17.3254	1946.45843	2431988.82535
1242	1946	7	14.5245	1946.53294	2432016.02448
1243	1946	8	10.7412	1946.60751	2432043.24123
1244	1946	9	6.9867	1946.68216	2432070.48666
1245	1946	10	4.2598	1946.75688	2432097.75980
1246	1946	10	31.5533	1946.83165	2432125.05326
1247	1946	11	27.8615	1946.90647	2432152.36153
1248	1946	12	25.1843	1946.98133	2432179.68431
1249	1947	1	21.5201	1947.05622	2432207.02006
1250	1947	2	17.8615	1947.13113	2432234.36150
1251	1947	3	17.1876	1947.20599	2432261.68758
1252	1947	4	13.4775	1947.28076	2432288.97751
1253	1947	5	10.7231	1947.35541	2432316.22313
1254	1947	6	6.9339	1947.42996	2432343.43394
1255	1947	7	4.1315	1947.50447	2432370.63153
1256	1947	7	31.3392	1947.57901	2432397.83922
1257	1947	8	27.5728	1947.65362	2432425.07274
1258	1947	9	23.8356	1947.72832	2432452.33560
1259	1947	10	21.1219	1947.80307	2432479.62194
1260	1947	11	17.4247	1947.87788	2432506.92468
1261	1947	12	14.7417	1947.95272	2432534.24164
1262	1948	1	11.0724	1948.02752	2432561.57244
1263	1948	2	7.4141	1948.10222	2432588.91405
1264	1948	3	5.7490	1948.17691	2432616.24897
1265	1948	4	2.0550	1948.25152	2432643.55499
1266	1948	4	29.3178	1948.32600	2432670.81774
1267	1948	5	26.5400	1948.40038	2432698.04003
1268	1948	6	22.7399	1948.47470	2432725.23985

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1269	1948	7	19.9411	1948.54902	2432752.44112
1270	1948	8	16.1634	1948.62340	2432779.66344
1271	1948	9	12.4152	1948.69786	2432806.91521
1272	1948	10	9.6934	1948.77239	2432834.19343
1273	1948	11	5.9904	1948.84697	2432861.49041
1274	1948	12	3.3018	1948.92159	2432888.80178
1275	1948	12	30.6279	1948.99625	2432916.12791
1276	1949	1	26.9659	1949.07114	2432943.46593
1277	1949	2	23.3060	1949.14604	2432970.80598
1278	1949	3	22.6257	1949.22089	2432998.12567
1279	1949	4	18.9060	1949.29563	2433025.40597
1280	1949	5	16.1426	1949.37025	2433052.64260
1281	1949	6	12.3484	1949.44479	2433079.84845
1282	1949	7	9.5464	1949.51931	2433107.04639
1283	1949	8	5.7588	1949.59386	2433134.25881
1284	1949	9	1.9989	1949.66849	2433161.49890
1285	1949	9	29.2676	1949.74320	2433188.76760
1286	1949	10	26.5580	1949.81797	2433216.05802
1287	1949	11	22.8638	1949.89278	2433243.36383
1288	1949	12	20.1840	1949.96763	2433270.68397
1289	1950	1	16.5176	1950.04251	2433298.01760
1290	1950	2	12.8595	1950.11742	2433325.35946
1291	1950	3	12.1899	1950.19230	2433352.68992
1292	1950	4	8.4873	1950.26709	2433379.98729
1293	1950	5	5.7405	1950.34175	2433407.24052
1294	1950	6	1.9562	1950.41632	2433434.45619
1295	1950	6	29.1544	1950.49083	2433461.65443
1296	1950	7	26.3590	1950.56537	2433461.65443
1297	1950	8	22.5875	1950.63997	2433516.08748
1298	1950	9	18.8454	1950.71465	2433543.34544
1299	1950	10	16.1282	1950.78939	2433570.62816
1300	1950	11	12.4282	1950.86419	2433597.92818
1301	1950	12	9.7424	1950.93902	2433625.24242
1302	1951	1	6.0706	1951.01389	2433652.57054
1303	1951	2	2.4112	1951.08880	2433679.91123
1304	1951	3	1.7489	1951.16370	2433707.24891
1305	1951	3	29.0615	1951.23852	2433734.56149
1306	1951	4	25.3323	1951.31324	2433761.83229
1307	1951	5	22.5609	1951.38784	2433789.06088
1308	1951	6	18.7631	1951.46236	2433816.26309
1309	1951	7	15.9626	1951.53688	2433843.46256
1310	1951	8	12.1803	1951.61145	2433870.68024
1311	1951	9	8.4267	1951.68610	2433897.92674
1312	1951	10	5.7007	1951.76082	2433925.20071
1313	1951	11	1.9947	1951.83560	2433952.49469
1314	1951	11	29.3034	1951.91042	2433979.80345
1315	1951	12	26.6269	1951.98528	2434007.12684
1316	1952	1	22.9631	1952.06001	2434034.46311
1317	1952	2	19.3045	1952.13471	2434061.80446
1318	1952	3	17.6295	1952.20937	2434089.12949
1319	1952	4	13.9177	1952.28393	2434116.41767
1320	1952	5	11.1616	1952.35836	2434143.66157
1321	1952	6	7.3714	1952.43271	2434170.87139
1322	1952	7	4.5690	1952.50702	2434198.06897
1323	1952	7	31.7775	1952.58136	2434225.27753
1324	1952	8	28.0123	1952.65577	2434252.51229



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1325	1952	9	24.2763	1952.73026	2434279.77628
1326	1952	10	21.5634	1952.80482	2434307.06339
1327	1952	11	17.8667	1952.87942	2434334.36666
1328	1952	12	15.1842	1952.95406	2434361.68417
1329	1953	1	11.5155	1953.02881	2434389.01547
1330	1953	2	7.8571	1953.10372	2434416.35714
1331	1953	3	7.1912	1953.17861	2434443.69124
1332	1953	4	3.4956	1953.25341	2434470.99562
1333	1953	4	30.7566	1953.32810	2434498.25659
1334	1953	5	27.9776	1953.40268	2434525.47763
1335	1953	6	24.1772	1953.47720	2434552.67719
1336	1953	7	21.3792	1953.55172	2434579.87919
1337	1953	8	17.6028	1953.62631	2434607.10280
1338	1953	9	13.8559	1953.70097	2434634.35584
1339	1953	10	11.1349	1953.77571	2434661.63493
1340	1953	11	7.4324	1953.85050	2434688.93238
1341	1953	12	4.7441	1953.92533	2434716.24412
1342	1954	1	1.0696	1954.00019	2434743.56958
1343	1954	1	28.4088	1954.07509	2434770.90883
1344	1954	2	24.7484	1954.15000	2434798.24840
1345	1954	3	24.0668	1954.22484	2434825.56676
1346	1954	4	20.3453	1954.29958	2434852.84531
1347	1954	5	17.5805	1954.37419	2434880.08049
1348	1954	6	13.7857	1954.44873	2434907.28573
1349	1954	7	10.9841	1954.52324	2434934.48407
1350	1954	8	7.1976	1954.59780	2434961.69760
1351	1954	9	3.4390	1954.67244	2434988.93899
1352	1954	9	30.7087	1954.74715	2435016.20873
1353	1954	10	27.9998	1954.82192	2435043.49977
1354	1954	11	24.3060	1954.89673	2435070.80601
1355	1954	12	21.6267	1954.97158	2435098.12667
1356	1955	1	17.9608	1955.04647	2435125.46075
1357	1955	2	14.3025	1955.12138	2435152.80255
1358	1955	3	13.6320	1955.19625	2435180.13204
1359	1955	4	9.9277	1955.27103	2435207.42770
1360	1955	5	7.1791	1955.34570	2435234.67913
1361	1955	6	3.3936	1955.42026	2435261.89361
1362	1955	6	30.5917	1955.49477	2435289.09166
1363	1955	7	27.7970	1955.56931	2435316.29696
1364	1955	8	24.0266	1955.64391	2435343.52661
1365	1955	9	20.2858	1955.71859	2435370.78575
1366	1955	10	17.5694	1955.79334	2435398.06935
1367	1955	11	13.8701	1955.86814	2435425.37005
1368	1955	12	11.1850	1955.94297	2435452.68497
1369	1956	1	7.5138	1956.01780	2435480.01378
1370	1956	2	3.8547	1956.09250	2435507.35473
1371	1956	3	2.1918	1956.16719	2435534.69181
1372	1956	3	29.5028	1956.24181	2435562.00280
1373	1956	4	25.7716	1956.31632	2435589.27159
1374	1956	5	22.9986	1956.39071	2435616.49854
1375	1956	6	19.2001	1956.46503	2435643.70006
1376	1956	7	16.3999	1956.53934	2435670.89991
1377	1956	8	12.6187	1956.61371	2435670.89991
1378	1956	9	8.8666	1956.68816	2435725.36662
1379	1956	10	6.1417	1956.76268	2435752.64175
1380	1956	11	2.4366	1956.83726	2435779.93657

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1381	1956	11	29.7460	1956.91187	2435807.24602
1382	1956	12	27.0701	1956.98653	2435834.57008
1383	1957	1	23.4068	1957.06139	2435861.90675
1384	1957	2	19.7477	1957.13630	2435889.24773
1385	1957	3	19.0714	1957.21115	2435916.57139
1386	1957	4	15.3576	1957.28591	2435943.85755
1387	1957	5	12.5996	1957.36055	2435971.09956
1388	1957	6	8.8083	1957.43509	2435998.30831
1389	1957	7	6.0059	1957.50961	2436025.50594
1390	1957	8	2.2155	1957.58415	2436052.71547
1391	1957	8	29.4516	1957.65877	2436079.95162
1392	1957	9	25.7169	1957.73347	2436107.21689
1393	1957	10	23.0049	1957.80823	2436134.50491
1394	1957	11	19.3089	1957.88304	2436161.80884
1395	1957	12	16.6270	1957.95788	2436189.12701
1396	1958	1	12.9589	1958.03276	2436216.45890
1397	1958	2	9.3006	1958.10767	2436243.80064
1398	1958	3	8.6339	1958.18256	2436271.13390
1399	1958	4	4.9366	1958.25736	2436298.43660
1400	1958	5	2.1956	1958.33204	2436325.69565
1401	1958	5	29.4153	1958.40662	2436352.91529
1402	1958	6	25.6144	1958.48114	2436380.11442
1403	1958	7	22.8169	1958.55566	2436407.31692
1404	1958	8	19.0416	1958.63025	2436434.54162
1405	1958	9	15.2958	1958.70492	2436461.79580
1406	1958	10	12.5758	1958.77966	2436489.07574
1407	1958	11	8.8738	1958.85445	2436516.37384
1408	1958	12	6.1862	1958.92928	2436543.68624
1409	1959	1	2.5125	1959.00414	2436571.01247
1410	1959	1	29.8522	1959.07905	2436598.35225
1411	1959	2	26.1916	1959.15395	2436625.69156
1412	1959	3	25.5087	1959.22879	2436653.00867
1413	1959	4	21.7854	1959.30352	2436680.28538
1414	1959	5	19.0189	1959.37813	2436707.51885
1415	1959	6	15.2232	1959.45267	2436734.72316
1416	1959	7	12.4215	1959.52718	2436761.92154
1417	1959	8	8.6359	1959.60174	2436789.13587
1418	1959	9	4.8784	1959.67638	2436816.37837
1419	1959	10	2.1491	1959.75109	2436843.64910
1420	1959	10	29.4409	1959.82587	2436870.94091
1421	1959	11	25.7479	1959.90068	2436898.24791
1422	1959	12	23.0694	1959.97553	2436925.56942
1423	1960	1	19.4043	1960.05028	2436952.90426
1424	1960	2	15.7462	1960.12499	2436980.24617
1425	1960	3	14.0747	1960.19966	2437007.57472
1426	1960	4	10.3686	1960.27423	2437034.86858
1427	1960	5	7.6180	1960.34868	2437062.11803
1428	1960	6	3.8311	1960.42304	2437089.33113
1429	1960	7	1.0288	1960.49735	2437116.52880
1430	1960	7	28.2347	1960.57168	2437143.73465
1431	1960	8	24.4654	1960.64608	2437170.96542
1432	1960	9	20.7257	1960.72056	2437198.22572
1433	1960	10	18.0103	1960.79511	2437225.51024
1434	1960	11	14.3117	1960.86970	2437252.81169
1435	1960	12	11.6274	1960.94434	2437280.12738
1436	1961	1	7.9570	1961.01906	2437307.45697

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1437	1961	2	4.2983	1961.09397	2437334.79828
1438	1961	3	3.6348	1961.16886	2437362.13478
1439	1961	3	30.9443	1961.24368	2437389.44426
1440	1961	4	27.2111	1961.31839	2437416.71113
1441	1961	5	24.4366	1961.39298	2437443.93656
1442	1961	6	20.6375	1961.46750	2437471.13748
1443	1961	7	17.8377	1961.54202	2437498.33770
1444	1961	8	14.0576	1961.61660	2437525.55757
1445	1961	9	10.3066	1961.69125	2437552.80660
1446	1961	10	7.5826	1961.76598	2437580.08262
1447	1961	11	3.8780	1961.84076	2437607.37801
1448	1961	12	1.1880	1961.91558	2437634.68796
1449	1961	12	28.5126	1961.99045	2437662.01263
1450	1962	1	24.8498	1962.06534	2437689.34976
1451	1962	2	21.1906	1962.14025	2437716.69057
1452	1962	3	20.5132	1962.21510	2437744.01316
1453	1962	4	16.7977	1962.28986	2437771.29764
1454	1962	5	14.0381	1962.36449	2437798.53809
1455	1962	6	10.2460	1962.43903	2437825.74598
1456	1962	7	7.4437	1962.51354	2437852.94370
1457	1962	8	3.6541	1962.58809	2437880.15407
1458	1962	8	30.8913	1962.66272	2437907.39133
1459	1962	9	27.1575	1962.73742	2437934.65751
1460	1962	10	24.4461	1962.81218	2437961.94611
1461	1962	11	20.7505	1962.88699	2437989.25051
1462	1962	12	18.0693	1962.96183	2438016.56927
1463	1963	1	14.4018	1963.03672	2438043.90178
1464	1963	2	10.7438	1963.11163	2438043.90178
1465	1963	3	10.0764	1963.18651	2438098.57637
1466	1963	4	6.3776	1963.26131	2438125.87758
1467	1963	5	3.6349	1963.33599	2438153.13488
1468	1963	5	30.8533	1963.41056	2438180.35325
1469	1963	6	27.0520	1963.48507	2438207.55199
1470	1963	7	24.2550	1963.55960	2438234.75499
1471	1963	8	20.4807	1963.63419	2438261.98068
1472	1963	9	16.7359	1963.70887	2438289.23590
1473	1963	10	14.0166	1963.78361	2438316.51662
1474	1963	11	10.3153	1963.85840	2438343.81529
1475	1963	12	7.6283	1963.93323	2438371.12831
1476	1964	1	3.9552	1964.00807	2438398.45524
1477	1964	1	31.2955	1964.08277	2438425.79546
1478	1964	2	27.6344	1964.15747	2438453.13442
1479	1964	3	25.9502	1964.23210	2438480.45021
1480	1964	4	22.2251	1964.30663	2438507.72507
1481	1964	5	19.4570	1964.38103	2438534.95696
1482	1964	6	15.6605	1964.45536	2438562.16052
1483	1964	7	12.8592	1964.52967	2438589.35918
1484	1964	8	9.0746	1964.60403	2438616.57455
1485	1964	9	5.3183	1964.67847	2438643.81833
1486	1964	10	2.5901	1964.75298	2438671.09013
1487	1964	10	29.8827	1964.82755	2438698.38266
1488	1964	11	26.1902	1964.90216	2438725.69020
1489	1964	12	23.5123	1964.97681	2438753.01225
1490	1965	1	19.8475	1965.05164	2438780.34748
1491	1965	2	16.1892	1965.12655	2438807.68914
1492	1965	3	15.5165	1965.20142	2438835.01653

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1493	1965	4	11.8085	1965.27619	2438862.30853
1494	1965	5	9.0562	1965.35084	2438889.55620
1495	1965	6	5.2683	1965.42539	2438916.76828
1496	1965	7	2.4660	1965.49991	2438943.96598
1497	1965	7	29.6728	1965.57445	2438971.17282
1498	1965	8	25.9050	1965.64905	2438998.40499
1499	1965	9	22.1666	1965.72374	2439025.66657
1500	1965	10	19.4520	1965.79850	2439052.95194
1501	1965	11	15.7539	1965.87330	2439080.25391
1502	1965	12	13.0701	1965.94814	2439107.57007
1503	1966	1	9.4001	1966.02301	2439134.90008
1504	1966	2	5.7414	1966.09792	2439162.24144
1505	1966	3	5.0772	1966.17281	2439189.57715
1506	1966	4	1.3851	1966.24763	2439216.88505
1507	1966	4	28.6501	1966.32233	2439244.15009
1508	1966	5	25.8742	1966.39692	2439271.37417
1509	1966	6	22.0747	1966.47144	2439298.57470
1510	1966	7	19.2755	1966.54596	2439325.77551
1511	1966	8	15.4966	1966.62054	2439352.99659
1512	1966	9	11.7469	1966.69520	2439380.24688
1513	1966	10	9.0238	1966.76993	2439407.52382
1514	1966	11	5.3198	1966.84471	2439434.81980
1515	1966	12	2.6303	1966.91953	2439462.13027
1516	1966	12	29.9555	1966.99440	2439489.45549
1517	1967	1	26.2930	1967.06930	2439516.79299
1518	1967	2	22.6335	1967.14420	2439544.13348
1519	1967	3	21.9548	1967.21905	2439571.45480
1520	1967	4	18.2374	1967.29380	2439598.73743
1521	1967	5	15.4762	1967.36843	2439625.97617
1522	1967	6	11.6831	1967.44297	2439653.18314
1523	1967	7	8.8810	1967.51748	2439680.38097
1524	1967	8	5.0923	1967.59203	2439707.59229
1525	1967	9	1.3309	1967.66666	2439734.83087
1526	1967	9	28.5983	1967.74137	2439762.09825
1527	1967	10	25.8877	1967.81613	2439789.38773
1528	1967	11	22.1928	1967.89094	2439816.69284
1529	1967	12	19.5123	1967.96579	2439844.01231
1530	1968	1	15.8454	1968.04056	2439871.34542
1531	1968	2	12.1874	1968.11527	2439898.68737
1532	1968	3	10.5189	1968.18994	2439926.01894
1533	1968	4	6.8182	1968.26453	2439953.31823
1534	1968	5	4.0734	1968.33900	2439980.57344
1535	1968	5	31.2903	1968.41336	2440007.79032
1536	1968	6	27.4887	1968.48767	2440034.98866
1537	1968	7	24.6923	1968.56200	2440062.19231
1538	1968	8	20.9194	1968.63639	2440089.41934
1539	1968	9	17.1760	1968.71086	2440116.67600
1540	1968	10	14.4579	1968.78540	2440143.95788
1541	1968	11	10.7574	1968.85999	2440171.25742
1542	1968	12	8.0712	1968.93462	2440198.57120
1543	1969	1	4.3988	1969.00931	2440225.89882
1544	1969	1	31.7393	1969.08422	2440253.23928
1545	1969	2	28.0776	1969.15912	2440280.57756
1546	1969	3	27.3917	1969.23395	2440307.89169
1547	1969	4	23.6644	1969.30867	2440335.16443
1548	1969	5	20.8946	1969.38327	2440362.39456

Rotation	Year	Month	Day	Date	Julian Date
1549	1969	6	17.0974	1969.45780	2440389.59736
1550	1969	7	14.2964	1969.53232	2440416.79637
1551	1969	8	10.5129	1969.60688	2440444.01289
1552	1969	9	6.7581	1969.68153	2440471.25810
1553	1969	10	4.0311	1969.75625	2440498.53109
1554	1969	10	31.3244	1969.83103	2440525.82443
1555	1969	11	27.6326	1969.90584	2440553.13260
1556	1969	12	24.9553	1969.98070	2440580.45529
1557	1970	1	21.2910	1970.05559	2440580.45529
1558	1970	2	17.6324	1970.13050	2440635.13242
1559	1970	3	16.9586	1970.20537	2440662.45861
1560	1970	4	13.2487	1970.28013	2440689.74873
1561	1970	5	10.4946	1970.35478	2440716.99455
1562	1970	6	6.7055	1970.42933	2440744.20550
1563	1970	7	3.9031	1970.50384	2440771.40311
1564	1970	7	31.1108	1970.57839	2440798.61075
1565	1970	8	27.3442	1970.65300	2440825.84417
1566	1970	9	23.6069	1970.72769	2440853.10692
1567	1970	10	20.8932	1970.80245	2440880.39316
1568	1970	11	17.1958	1970.87725	2440907.69581
1569	1970	12	14.5127	1970.95209	2440935.01270
1570	1971	1	10.8434	1971.02697	2440962.34345
1571	1971	2	7.1851	1971.10188	2440989.68509
1572	1971	3	6.5202	1971.17677	2441017.02017
1573	1971	4	2.8265	1971.25158	2441044.32647
1574	1971	4	30.0895	1971.32627	2441071.58953
1575	1971	5	27.3120	1971.40085	2441098.81201
1576	1971	6	23.5119	1971.47537	2441126.01184
1577	1971	7	20.7130	1971.54990	2441153.21295
1578	1971	8	16.9350	1971.62448	2441180.43500
1579	1971	9	13.1864	1971.69914	2441207.68644
1580	1971	10	10.4644	1971.77387	2441234.96436
1581	1971	11	6.7611	1971.84866	2441262.26115
1582	1971	12	4.0724	1971.92349	2441289.57241
1583	1971	12	31.3985	1971.99836	2441316.89852
1584	1972	1	27.7366	1972.07305	2441344.23664
1585	1972	2	24.0769	1972.14775	2441371.57694
1586	1972	3	22.3970	1972.22240	2441398.89698
1587	1972	4	18.6777	1972.29693	2441426.17765
1588	1972	5	15.9145	1972.37135	2441453.41453
1589	1972	6	12.1204	1972.44568	2441480.62043
1590	1972	7	9.3183	1972.52000	2441507.81825
1591	1972	8	5.5304	1972.59435	2441535.03043
1592	1972	9	1.7702	1972.66877	2441562.27024
1593	1972	9	29.0388	1972.74328	2441589.53876
1594	1972	10	26.3291	1972.81784	2441616.82909
1595	1972	11	22.6349	1972.89245	2441644.13490
1596	1972	12	19.9551	1972.96709	2441671.45508
1597	1973	1	16.2888	1973.04189	2441698.78878
1598	1973	2	12.6308	1973.11680	2441726.13074
1599	1973	3	11.9613	1973.19167	2441753.46134
1600	1973	4	8.2589	1973.26646	2441780.75885
1601	1973	5	5.5122	1973.34113	2441808.01215
1602	1973	6	1.7278	1973.41569	2441808.01215
1603	1973	6	28.9259	1973.49021	2441862.42586
1604	1973	7	26.1302	1973.56474	2441889.63024

Rotation	Year	Month	Day	Date	Julian Date
1605	1973	8	22.3585	1973.63934	2441916.85851
1606	1973	9	18.6164	1973.71402	2441944.11637
1607	1973	10	15.8991	1973.78876	2441971.39910
1608	1973	11	12.1992	1973.86356	2441998.69920
1609	1973	12	9.5135	1973.93839	2442026.01354
1610	1974	1	5.8417	1974.01327	2442053.34174
1611	1974	2	2.1825	1974.08817	2442080.68248
1612	1974	3	1.5203	1974.16307	2442108.02027
1613	1974	3	28.8330	1974.23790	2442135.33302
1614	1974	4	25.1040	1974.31261	2442162.60400
1615	1974	5	22.3327	1974.38721	2442189.83270
1616	1974	6	18.5349	1974.46174	2442217.03492
1617	1974	7	15.7343	1974.53626	2442244.23429
1618	1974	8	11.9518	1974.61083	2442271.45182
1619	1974	9	8.1981	1974.68547	2442298.69813
1620	1974	10	5.4719	1974.76020	2442325.97193
1621	1974	11	1.7658	1974.83497	2442353.26579
1622	1974	11	29.0744	1974.90979	2442380.57441
1623	1974	12	26.3977	1974.98465	2442407.89769
1624	1975	1	22.7339	1975.05954	2442435.23388
1625	1975	2	19.0753	1975.13445	2442462.57528
1626	1975	3	18.4005	1975.20932	2442489.90050
1627	1975	4	14.6890	1975.28408	2442517.18898
1628	1975	5	11.9332	1975.35872	2442544.43316
1629	1975	6	8.1431	1975.43327	2442571.64315
1630	1975	7	5.3408	1975.50778	2442598.84075
1631	1975	8	1.5492	1975.58233	2442626.04920
1632	1975	8	28.7838	1975.65694	2442653.28378
1633	1975	9	25.0476	1975.73164	2442680.54758
1634	1975	10	22.3346	1975.80640	2442707.83455
1635	1975	11	18.6377	1975.88120	2442735.13773
1636	1975	12	15.9552	1975.95604	2442762.45522
1637	1976	1	12.2865	1976.03084	2442789.78654
1638	1976	2	8.6283	1976.10554	2442817.12831
1639	1976	3	6.9626	1976.18023	2442844.46262
1640	1976	4	3.2673	1976.25483	2442871.76726
1641	1976	4	30.5284	1976.32931	2442899.02840
1642	1976	5	27.7495	1976.40369	2442926.24950
1643	1976	6	23.9489	1976.47800	2442953.44894
1644	1976	7	21.1507	1976.55232	2442980.65067
1645	1976	8	17.3740	1976.62670	2443007.87398
1646	1976	9	13.6268	1976.70117	2443035.12677
1647	1976	10	10.9057	1976.77570	2443062.40572
1648	1976	11	7.2032	1976.85028	2443089.70316
1649	1976	12	4.5150	1976.92490	2443117.01497
1650	1976	12	31.8416	1976.99957	2443144.34159
1651	1977	1	28.1799	1977.07447	2443171.67992
1652	1977	2	24.5197	1977.14937	2443199.01968
1653	1977	3	23.8383	1977.22421	2443226.33826
1654	1977	4	20.1170	1977.29895	2443253.61701
1655	1977	5	17.3523	1977.37357	2443280.85230
1656	1977	6	13.5575	1977.44810	2443308.05753
1657	1977	7	10.7558	1977.52262	2443335.25578
1658	1977	8	6.9692	1977.59718	2443362.46916
1659	1977	9	3.2104	1977.67181	2443362.46916
1660	1977	9	30.4801	1977.74652	2443416.98008

Rotation	Year	Month	Day	Date	Julian Date
1661	1977	10	27.7711	1977.82129	2443444.27108
1662	1977	11	24.0773	1977.89610	2443471.57728
1663	1977	12	21.3979	1977.97095	2443498.89786
1664	1978	1	17.7318	1978.04584	2443526.23183
1665	1978	2	14.0735	1978.12075	2443553.57353
1666	1978	3	13.4030	1978.19562	2443580.90303
1667	1978	4	9.6988	1978.27041	2443608.19880
1668	1978	5	6.9504	1978.34507	2443635.45037
1669	1978	6	3.1650	1978.41963	2443662.66498
1670	1978	6	30.3631	1978.49415	2443689.86309
1671	1978	7	27.5684	1978.56868	2443717.06841
1672	1978	8	23.7981	1978.64328	2443744.29806
1673	1978	9	20.0572	1978.71796	2443771.55718
1674	1978	10	17.3408	1978.79271	2443798.84076
1675	1978	11	13.6414	1978.86751	2443826.14140
1676	1978	12	10.9562	1978.94235	2443853.45623
1677	1979	1	7.2849	1979.01722	2443880.78492
1678	1979	2	3.6258	1979.09213	2443908.12581
1679	1979	3	2.9629	1979.16702	2443935.46293
1680	1979	3	30.2741	1979.24185	2443962.77410
1681	1979	4	26.5431	1979.31656	2443990.04314
1682	1979	5	23.7703	1979.39115	2444017.27029
1683	1979	6	19.9719	1979.46568	2444044.47189
1684	1979	7	17.1717	1979.54020	2444071.67169
1685	1979	8	13.3904	1979.61477	2444098.89037
1686	1979	9	9.6380	1979.68942	2444126.13802
1687	1979	10	6.9129	1979.76415	2444153.41294
1688	1979	11	3.2076	1979.83892	2444180.70758
1689	1979	11	30.5169	1979.91374	2444208.01689
1690	1979	12	27.8409	1979.98861	2444235.34086
1691	1980	1	24.1775	1980.06333	2444262.67749
1692	1980	2	20.5186	1980.13803	2444290.01858
1693	1980	3	18.8425	1980.21268	2444317.34247
1694	1980	4	15.1289	1980.28724	2444344.62892
1695	1980	5	12.3712	1980.36167	2444371.87119
1696	1980	6	8.5801	1980.43601	2444399.08007
1697	1980	7	5.7777	1980.51032	2444426.27771
1698	1980	8	1.9871	1980.58466	2444453.48714
1699	1980	8	29.2232	1980.65908	2444480.72317
1700	1980	9	25.4883	1980.73357	2444507.98833
1701	1980	10	22.7763	1980.80813	2444535.27630
1702	1980	11	19.0802	1980.88273	2444562.58021
1703	1980	12	16.3983	1980.95737	2444589.89833
1704	1981	1	12.7302	1981.03214	2444617.23015
1705	1981	2	9.0718	1981.10705	2444644.57183
1706	1981	3	8.4051	1981.18193	2444671.90508
1707	1981	4	4.7078	1981.25673	2444699.20782
1708	1981	5	1.9669	1981.33142	2444726.46692
1709	1981	5	29.1866	1981.40599	2444753.68659
1710	1981	6	25.3857	1981.48051	2444780.88568
1711	1981	7	22.5882	1981.55504	2444808.08815
1712	1981	8	18.8128	1981.62962	2444835.31281
1713	1981	9	15.0670	1981.70429	2444862.56703
1714	1981	10	12.3471	1981.77903	2444889.84706
1715	1981	11	8.6452	1981.85382	2444917.14522
1716	1981	12	5.9577	1981.92865	2444917.14522

Rotation	Year	Month	Day	Date	Julian Date
1717	1982	1	2.2838	1982.00352	2444971.78380
1718	1982	1	29.6235	1982.07842	2444999.12346
1719	1982	2	25.9627	1982.15332	2445026.46272
1720	1982	3	25.2799	1982.22816	2445026.46272
1721	1982	4	21.5567	1982.30290	2445081.05668
1722	1982	5	18.7903	1982.37751	2445108.29030
1723	1982	6	14.9947	1982.45204	2445135.49473
1724	1982	7	12.1932	1982.52656	2445162.69319
1725	1982	8	8.4076	1982.60112	2445189.90756
1726	1982	9	4.6500	1982.67575	2445217.15003
1727	1982	10	1.9207	1982.75047	2445244.42071
1728	1982	10	29.2124	1982.82524	2445271.71241
1729	1982	11	25.5192	1982.90005	2445299.01922
1730	1982	12	22.8405	1982.97491	2445326.34049
1731	1983	1	19.1751	1983.04979	2445353.67508
1732	1983	2	15.5169	1983.12470	2445381.01685
1733	1983	3	14.8454	1983.19958	2445408.34543
1734	1983	4	11.1395	1983.27435	2445435.63948
1735	1983	5	8.3892	1983.34901	2445462.88921
1736	1983	6	4.6026	1983.42357	2445490.10257
1737	1983	7	1.8004	1983.49808	2445517.30042
1738	1983	7	29.0064	1983.57262	2445544.50634
1739	1983	8	25.2371	1983.64722	2445571.73711
1740	1983	9	21.4974	1983.72191	2445598.99735
1741	1983	10	18.7818	1983.79666	2445626.28179
1742	1983	11	15.0831	1983.87146	2445653.58314
1743	1983	12	12.3987	1983.94630	2445680.89870
1744	1984	1	8.7282	1984.02112	2445708.22816
1745	1984	2	5.0694	1984.09582	2445735.56940
1746	1984	3	3.4059	1984.17051	2445762.90593
1747	1984	3	30.7155	1984.24512	2445790.21554
1748	1984	4	26.9826	1984.31962	2445817.48258
1749	1984	5	24.2081	1984.39401	2445844.70810
1750	1984	6	20.4090	1984.46833	2445871.90902
1751	1984	7	17.6091	1984.54265	2445899.10914
1752	1984	8	13.8289	1984.61702	2445926.32888
1753	1984	9	10.0778	1984.69147	2445926.32888
1754	1984	10	7.3537	1984.76599	2445980.85373
1755	1984	11	3.6491	1984.84057	2446008.14912
1756	1984	11	30.9591	1984.91519	2446035.45907
1757	1984	12	28.2837	1984.98985	2446062.78373
1758	1985	1	24.6208	1985.06471	2446090.12084
1759	1985	2	20.9617	1985.13962	2446117.46169
1760	1985	3	20.2844	1985.21448	2446144.78437
1761	1985	4	16.5690	1985.28923	2446172.06900
1762	1985	5	13.8096	1985.36386	2446199.30959
1763	1985	6	10.0176	1985.43840	2446226.51757
1764	1985	7	7.2153	1985.51292	2446253.71532
1765	1985	8	3.4257	1985.58747	2446280.92568
1766	1985	8	30.6630	1985.66209	2446308.16294
1767	1985	9	26.9291	1985.73679	2446335.42912
1768	1985	10	24.2177	1985.81156	2446362.71771
1769	1985	11	20.5220	1985.88636	2446390.02203
1770	1985	12	17.8406	1985.96121	2446417.34061
1771	1986	1	14.1729	1986.03609	2446444.67289
1772	1986	2	10.5147	1986.11100	2446472.01465



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1773	1986	3	9.8472	1986.18588	2446499.34715
1774	1986	4	6.1484	1986.26068	2446526.64841
1775	1986	5	3.4059	1986.33536	2446553.90587
1776	1986	5	30.6244	1986.40993	2446581.12443
1777	1986	6	26.8234	1986.48445	2446608.32334
1778	1986	7	24.0265	1986.55898	2446635.52648
1779	1986	8	20.2523	1986.63357	2446662.75228
1780	1986	9	16.5076	1986.70824	2446690.00755
1781	1986	10	13.7883	1986.78298	2446717.28825
1782	1986	11	10.0868	1986.85777	2446744.58683
1783	1986	12	7.3997	1986.93260	2446771.89968
1784	1987	1	3.7264	1987.00747	2446771.89968
1785	1987	1	31.0664	1987.08237	2446826.56644
1786	1987	2	27.4054	1987.15727	2446853.90536
1787	1987	3	26.7213	1987.23211	2446881.22128
1788	1987	4	22.9964	1987.30684	2446908.49640
1789	1987	5	20.2286	1987.38145	2446935.72855
1790	1987	6	16.4323	1987.45598	2446962.93231
1791	1987	7	13.6310	1987.53050	2446990.13104
1792	1987	8	9.8463	1987.60506	2447017.34634
1793	1987	9	6.0900	1987.67970	2447044.58995
1794	1987	10	3.3615	1987.75442	2447071.86153
1795	1987	10	30.6538	1987.82919	2447099.15382
1796	1987	11	26.9611	1987.90400	2447126.46112
1797	1987	12	24.2830	1987.97886	2447153.78299
1798	1988	1	20.6181	1988.05360	2447181.11809
1799	1988	2	16.9598	1988.12831	2447208.45979
1800	1988	3	15.2874	1988.20297	2447235.78737
1801	1988	4	11.5797	1988.27754	2447263.07970
1802	1988	5	8.8277	1988.35199	2447290.32772
1803	1988	6	5.0400	1988.42634	2447317.54005
1804	1988	7	2.2379	1988.50065	2447344.73788
1805	1988	7	29.4447	1988.57499	2447371.94471
1806	1988	8	25.6768	1988.64939	2447399.17678
1807	1988	9	21.9382	1988.72387	2447426.43823
1808	1988	10	19.2235	1988.79842	2447453.72347
1809	1988	11	15.5253	1988.87302	2447481.02530
1810	1988	12	12.8413	1988.94765	2447508.34131
1811	1989	1	9.1712	1989.02239	2447535.67116
1812	1989	2	5.5124	1989.09729	2447563.01238
1813	1989	3	4.8481	1989.17219	2447590.34809
1814	1989	4	1.1561	1989.24700	2447617.65606
1815	1989	4	28.4213	1989.32170	2447644.92126
1816	1989	5	25.6455	1989.39629	2447672.14549
1817	1989	6	21.8461	1989.47081	2447699.34612
1818	1989	7	19.0470	1989.54533	2447726.54699
1819	1989	8	15.2681	1989.61991	2447753.76808
1820	1989	9	11.5184	1989.69457	2447781.01837
1821	1989	10	8.7953	1989.76930	2447808.29529
1822	1989	11	5.0912	1989.84409	2447835.59122
1823	1989	12	2.4016	1989.91891	2447862.90156
1824	1989	12	29.7266	1989.99377	2447890.22660
1825	1990	1	26.0639	1990.06867	2447917.56391
1826	1990	2	22.4043	1990.14357	2447944.90433
1827	1990	3	21.7257	1990.21843	2447972.22573
1828	1990	4	18.0086	1990.29317	2447999.50858

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1829	1990	5	15.2476	1990.36780	2448026.74762
1830	1990	6	11.4549	1990.44234	2448053.95487
1831	1990	7	8.6529	1990.51686	2448081.15292
1832	1990	8	4.8643	1990.59141	2448108.36433
1833	1990	9	1.1029	1990.66604	2448135.60287
1834	1990	9	28.3701	1990.74074	2448162.87010
1835	1990	10	25.6593	1990.81551	2448190.15933
1836	1990	11	21.9641	1990.89031	2448217.46409
1837	1990	12	19.2832	1990.96516	2448244.78317
1838	1991	1	15.6159	1991.04004	2448272.11593
1839	1991	2	11.9577	1991.11495	2448299.45769
1840	1991	3	11.2893	1991.18983	2448326.78931
1841	1991	4	7.5889	1991.26463	2448354.08890
1842	1991	5	4.8445	1991.33930	2448381.34455
1843	1991	6	1.0619	1991.41387	2448408.56188
1844	1991	6	28.2606	1991.48839	2448435.76054
1845	1991	7	25.4644	1991.56292	2448462.96439
1846	1991	8	21.6914	1991.63751	2448490.19141
1847	1991	9	17.9480	1991.71219	2448517.44794
1848	1991	10	15.2296	1991.78693	2448544.72961
1849	1991	11	11.5289	1991.86172	2448572.02887
1850	1991	12	8.8424	1991.93655	2448572.02887
1851	1992	1	5.1697	1992.01139	2448626.66971
1852	1992	2	1.5100	1992.08609	2448654.01002
1853	1992	2	28.8483	1992.16079	2448681.34833
1854	1992	3	27.1627	1992.23542	2448708.66266
1855	1992	4	23.4357	1992.30993	2448735.93572
1856	1992	5	20.6661	1992.38433	2448763.16615
1857	1992	6	16.8691	1992.45866	2448790.36912
1858	1992	7	14.0682	1992.53297	2448817.56816
1859	1992	8	10.2846	1992.60733	2448844.78461
1860	1992	9	6.5296	1992.68177	2448872.02964
1861	1992	10	3.8024	1992.75629	2448899.30243
1862	1992	10	31.0956	1992.83086	2448926.59560
1863	1992	11	27.4036	1992.90547	2448953.90361
1864	1992	12	24.7262	1992.98013	2448981.22615
1865	1993	1	21.0617	1993.05496	2449008.56171
1866	1993	2	17.4032	1993.12987	2449035.90316
1867	1993	3	16.7295	1993.20474	2449063.22949
1868	1993	4	13.0199	1993.27951	2449090.51988
1869	1993	5	10.2660	1993.35415	2449117.76601
1870	1993	6	6.4772	1993.42870	2449144.97722
1871	1993	7	3.6750	1993.50322	2449172.17502
1872	1993	7	30.8827	1993.57776	2449199.38273
1873	1993	8	27.1161	1993.65237	2449226.61613
1874	1993	9	23.3788	1993.72707	2449253.87880
1875	1993	10	20.6649	1993.80182	2449281.16488
1876	1993	11	16.9673	1993.87662	2449308.46730
1877	1993	12	14.2839	1993.95146	2449335.78389
1878	1994	1	10.6143	1994.02634	2449363.11428
1879	1994	2	6.9557	1994.10125	2449390.45566
1880	1994	3	6.2906	1994.17614	2449417.79065
1881	1994	4	2.5971	1994.25095	2449445.09706
1882	1994	4	29.8604	1994.32564	2449472.36041
1883	1994	5	27.0832	1994.40023	2449499.58324
1884	1994	6	23.2834	1994.47475	2449526.78340

Rotation	Year	Month	Day	Date	Julian Date
1885	1994	7	20.4848	1994.54927	2449553.98475
1886	1994	8	16.7069	1994.62385	2449581.20691
1887	1994	9	12.9583	1994.69852	2449608.45834
1888	1994	10	10.2362	1994.77325	2449635.73615
1889	1994	11	6.5327	1994.84803	2449663.03271
1890	1994	12	3.8437	1994.92286	2449690.34368
1891	1994	12	31.1695	1994.99772	2449717.66947
1892	1995	1	27.5074	1995.07262	2449745.00735
1893	1995	2	23.8476	1995.14753	2449772.34760
1894	1995	3	23.1678	1995.22238	2449799.66784
1895	1995	4	19.4489	1995.29712	2449826.94885
1896	1995	5	16.6861	1995.37174	2449854.18615
1897	1995	6	12.8924	1995.44628	2449854.18615
1898	1995	7	10.0903	1995.52080	2449908.59034
1899	1995	8	6.3025	1995.59535	2449935.80247
1900	1995	9	2.5421	1995.66998	2449963.04208
1901	1995	9	29.8103	1995.74469	2449990.31029
1902	1995	10	27.1003	1995.81945	2450017.60028
1903	1995	11	23.4058	1995.89426	2450044.90575
1904	1995	12	20.7257	1995.96911	2450072.22566
1905	1996	1	17.0592	1996.04388	2450099.55919
1906	1996	2	13.4012	1996.11858	2450126.90118
1907	1996	3	11.7320	1996.19326	2450154.23201
1908	1996	4	8.0299	1996.26784	2450181.52993
1909	1996	5	5.2837	1996.34231	2450208.78368
1910	1996	6	1.4997	1996.41667	2450235.99965
1911	1996	6	28.6979	1996.49098	2450263.19794
1912	1996	7	25.9023	1996.56531	2450290.40231
1913	1996	8	22.1305	1996.63970	2450317.63045
1914	1996	9	18.3881	1996.71418	2450344.88810
1915	1996	10	15.6706	1996.78872	2450372.17061
1916	1996	11	11.9705	1996.86331	2450399.47050
1917	1996	12	9.2846	1996.93794	2450426.78463
1918	1997	1	5.6126	1997.01264	2450454.11264
1919	1997	2	1.9533	1997.08754	2450481.45328
1920	1997	3	1.2911	1997.16244	2450508.79109
1921	1997	3	28.6040	1997.23727	2450536.10400
1922	1997	4	24.8752	1997.31199	2450563.37522
1923	1997	5	22.1042	1997.38659	2450590.60416
1924	1997	6	18.3065	1997.46111	2450617.80653
1925	1997	7	15.5059	1997.53563	2450645.00595
1926	1997	8	11.7234	1997.61020	2450672.22344
1927	1997	9	7.9697	1997.68485	2450699.46964
1928	1997	10	5.2433	1997.75957	2450726.74333
1929	1997	11	1.5371	1997.83435	2450754.03705
1930	1997	11	28.8455	1997.90917	2450781.34552
1931	1997	12	26.1686	1997.98402	2450808.66861
1932	1998	1	22.5047	1998.05892	2450836.00466
1933	1998	2	18.8461	1998.13382	2450863.34604
1934	1998	3	18.1714	1998.20869	2450890.67144
1935	1998	4	14.4602	1998.28345	2450917.96023
1936	1998	5	11.7048	1998.35810	2450945.20479
1937	1998	6	7.9151	1998.43264	2450972.41509
1938	1998	7	5.1129	1998.50716	2450999.61289
1939	1998	8	1.3214	1998.58170	2451026.82137
1940	1998	8	28.5558	1998.65632	2451054.05580

Rotation	Year	Month	Day	Date	Julian Date
1941	1998	9	24.8193	1998.73101	2451081.31933
1942	1998	10	22.1059	1998.80577	2451108.60595
1943	1998	11	18.4087	1998.88057	2451135.90875
1944	1998	12	15.7259	1998.95541	2451163.22584
1945	1999	1	12.0569	1999.03029	2451190.55687
1946	1999	2	8.3986	1999.10520	2451217.89854
1947	1999	3	7.7330	1999.18009	2451245.23302
1948	1999	4	4.0381	1999.25490	2451272.53807
1949	1999	5	1.2997	1999.32959	2451299.79973
1950	1999	5	28.5213	1999.40417	2451327.02132
1951	1999	6	24.7211	1999.47869	2451354.22108
1952	1999	7	21.9229	1999.55321	2451381.42291
1953	1999	8	18.1461	1999.62780	2451408.64610
1954	1999	9	14.3986	1999.70246	2451408.64610
1955	1999	10	11.6772	1999.77720	2451463.17721
1956	1999	11	7.9743	1999.85198	2451463.17721
1957	1999	12	5.2858	1999.92681	2451517.78582
1958	2000	1	1.6112	2000.00167	2451545.11118
1959	2000	1	28.9505	2000.07637	2451572.45053
1960	2000	2	25.2905	2000.15107	2451599.79044
1961	2000	3	23.6094	2000.22571	2451627.10938
1962	2000	4	19.8886	2000.30024	2451654.38855
1963	2000	5	17.1242	2000.37466	2451681.62419
1964	2000	6	13.3296	2000.44899	2451708.82961
1965	2000	7	10.5278	2000.52330	2451736.02781
1966	2000	8	6.7410	2000.59765	2451736.02781
1967	2000	9	2.9819	2000.67208	2451790.48190
1968	2000	9	30.2512	2000.74659	2451817.75122
1969	2000	10	27.5419	2000.82115	2451845.04194
1970	2000	11	23.8480	2000.89576	2451872.34795
1971	2000	12	21.1684	2000.97041	2451899.66840
1972	2001	1	17.5024	2001.04521	2451927.00236
1973	2001	2	13.8442	2001.12012	2451954.34421
1974	2001	3	13.1740	2001.19500	2451981.67400
1975	2001	4	9.4702	2001.26978	2452008.97017
1976	2001	5	6.7222	2001.34444	2452036.22215
1977	2001	6	2.9371	2001.41901	2452063.43705
1978	2001	6	30.1353	2001.49352	2452090.63529
1979	2001	7	27.3406	2001.56806	2452117.84057
1980	2001	8	23.5700	2001.64266	2452145.07003
1981	2001	9	19.8289	2001.71734	2452172.32890
1982	2001	10	17.1122	2001.79209	2452199.61220
1983	2001	11	13.4126	2001.86688	2452226.91255
1984	2001	12	10.7271	2001.94172	2452226.91255
1985	2002	1	7.0555	2002.01659	2452281.55551
1986	2002	2	3.3963	2002.09150	2452308.89625
1987	2002	3	2.7334	2002.16639	2452336.23341
1988	2002	3	30.0449	2002.24122	2452363.54485
1989	2002	4	26.3143	2002.31593	2452390.81428
1990	2002	5	23.5419	2002.39053	2452418.04185
1991	2002	6	19.7438	2002.46505	2452445.24376
1992	2002	7	16.9437	2002.53957	2452472.44370
1993	2002	8	13.1624	2002.61414	2452499.66236
1994	2002	9	9.4098	2002.68879	2452526.90985
1995	2002	10	6.6845	2002.76352	2452554.18450
1996	2002	11	2.9789	2002.83830	2452581.47884

Rotation	Year	Month	Day	Date	Julian Date
1997	2002	11	30.2878	2002.91312	2452608.78784
1998	2002	12	27.6115	2002.98798	2452636.11153
1999	2003	1	23.9480	2003.06287	2452663.44803
2000	2003	2	20.2892	2003.13778	2452690.78920
2001	2003	3	19.6134	2003.21264	2452718.11340
2002	2003	4	15.9003	2003.28740	2452745.40034
2003	2003	5	13.1431	2003.36204	2452772.64309
2004	2003	6	9.3523	2003.43658	2452799.85230
2005	2003	7	6.5500	2003.51110	2452827.05003
2006	2003	8	2.7593	2003.58564	2452854.25932
2007	2003	8	29.9950	2003.66026	2452881.49500
2008	2003	9	26.2597	2003.73496	2452881.49500
2009	2003	10	23.5473	2003.80972	2452936.04725
2010	2003	11	19.8508	2003.88452	2452963.35080
2011	2003	12	17.1687	2003.95937	2452990.66867
2012	2004	1	13.5004	2004.03415	2453018.00038
2013	2004	2	9.8422	2004.10886	2453045.34219
2014	2004	3	8.1758	2004.18354	2453072.67580
2015	2004	4	4.4791	2004.25814	2453099.97905
2016	2004	5	1.7387	2004.33262	2453127.23866
2017	2004	5	28.9587	2004.40699	2453154.45872
2018	2004	6	25.1580	2004.48131	2453181.65796
2019	2004	7	22.3604	2004.55563	2453208.86036
2020	2004	8	18.5848	2004.63001	2453236.08478
2021	2004	9	14.8387	2004.70448	2453263.33867
2022	2004	10	12.1184	2004.77901	2453290.61839
2023	2004	11	8.4163	2004.85360	2453317.91631
2024	2004	12	5.7285	2004.92822	2453345.22853
2025	2005	1	2.0546	2005.00289	2453372.55456
2026	2005	1	29.3942	2005.07779	2453399.89420
2027	2005	2	25.7336	2005.15269	2453427.23356
2028	2005	3	25.0510	2005.22754	2453454.55095
2029	2005	4	21.3281	2005.30227	2453481.82808
2030	2005	5	18.5619	2005.37688	2453509.06194
2031	2005	6	14.7665	2005.45142	2453536.26650
2032	2005	7	11.9649	2005.52593	2453563.46494
2033	2005	8	8.1792	2005.60049	2453563.46494
2034	2005	9	4.4215	2005.67513	2453617.92146
2035	2005	10	1.6920	2005.74984	2453645.19196
2036	2005	10	28.9835	2005.82461	2453672.48351
2037	2005	11	25.2902	2005.89943	2453699.79019
2038	2005	12	22.6113	2005.97428	2453727.11133
2039	2006	1	18.9459	2006.04917	2453754.44587
2040	2006	2	15.2877	2006.12408	2453781.78769
2041	2006	3	14.6165	2006.19895	2453809.11648
2042	2006	4	10.9109	2006.27373	2453836.41087
2043	2006	5	8.1610	2006.34839	2453863.66097
2044	2006	6	4.3746	2006.42294	2453890.87462
2045	2006	7	1.5726	2006.49746	2453918.07258
2046	2006	7	28.7785	2006.57200	2453945.27845
2047	2006	8	25.0090	2006.64660	2453972.50899
2048	2006	9	21.2689	2006.72128	2453999.76894
2049	2006	10	18.5530	2006.79604	2454027.05304
2050	2006	11	14.8540	2006.87083	2454054.35404
2051	2006	12	12.1693	2006.94567	2454081.66931
2052	2007	1	8.4986	2007.02054	2454108.99855

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2053	2007	2	4.8398	2007.09545	2454136.33976
2054	2007	3	4.1765	2007.17035	2454163.67649
2055	2007	3	31.4865	2007.24517	2454190.98650
2056	2007	4	27.7540	2007.31987	2454218.25404
2057	2007	5	24.9800	2007.39447	2454245.47999
2058	2007	6	21.1811	2007.46899	2454272.68113
2059	2007	7	18.3813	2007.54351	2454299.88127
2060	2007	8	14.6008	2007.61808	2454327.10081
2061	2007	9	10.8494	2007.69274	2454354.34941
2062	2007	10	8.1250	2007.76747	2454381.62503
2063	2007	11	4.4202	2007.84225	2454408.92015
2064	2007	12	1.7299	2007.91707	2454436.22992
2065	2007	12	29.0545	2007.99193	2454463.55448
2066	2008	1	25.3916	2008.06664	2454490.89163
2067	2008	2	21.7327	2008.14135	2454518.23270
2068	2008	3	20.0557	2008.21600	2454545.55572
2069	2008	4	16.3407	2008.29055	2454572.84073
2070	2008	5	13.5816	2008.36498	2454600.08157
2071	2008	6	9.7896	2008.43932	2454627.28963
2072	2008	7	6.9872	2008.51363	2454654.48723
2073	2008	8	3.1973	2008.58797	2454681.69728
2074	2008	8	30.4342	2008.66239	2454708.93416
2075	2008	9	26.7000	2008.73689	2454736.20001
2076	2008	10	23.9884	2008.81144	2454763.48839
2077	2008	11	20.2926	2008.88605	2454790.79264
2078	2008	12	17.6113	2008.96069	2454818.11125
2079	2009	1	13.9436	2009.03546	2454845.44363
2080	2009	2	10.2856	2009.11037	2454872.78560
2081	2009	3	9.6184	2009.18526	2454900.11843
2082	2009	4	5.9200	2009.26005	2454927.42003
2083	2009	5	3.1778	2009.33473	2454954.67779
2084	2009	5	30.3965	2009.40931	2454981.89652
2085	2009	6	26.5954	2009.48382	2455009.09543
2086	2009	7	23.7984	2009.55835	2455036.29840
2087	2009	8	20.0239	2009.63294	2455063.52395
2088	2009	9	16.2790	2009.70761	2455090.77896
2089	2009	10	13.5595	2009.78235	2455118.05944
2090	2009	11	9.8579	2009.85714	2455145.35786
2091	2009	12	7.1706	2009.93197	2455172.67057
2092	2010	1	3.4972	2010.00684	2455199.99718
2093	2010	1	30.8372	2010.08175	2455227.33719
2094	2010	2	27.1762	2010.15665	2455254.67619
2095	2010	3	26.4924	2010.23149	2455281.99235
2096	2010	4	22.7678	2010.30621	2455309.26778
2097	2010	5	20.0002	2010.38082	2455336.50020
2098	2010	6	16.2041	2010.45535	2455363.70411
2099	2010	7	13.4028	2010.52987	2455390.90284
2100	2010	8	9.6180	2010.60443	2455418.11801
2101	2010	9	5.8614	2010.67907	2455445.36142
2102	2010	10	3.1328	2010.75379	2455472.63278
2103	2010	10	30.4249	2010.82856	2455499.92488
2104	2010	11	26.7320	2010.90338	2455527.23204
2105	2010	12	24.0538	2010.97823	2455554.55380
2106	2011	1	20.3889	2011.05312	2455581.88890
2107	2011	2	16.7308	2011.12803	2455609.23075
2108	2011	3	16.0587	2011.20290	2455636.55866

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2109	2011	4	12.3514	2011.27768	2455636.55866
2110	2011	5	9.5998	2011.35233	2455691.09976
2111	2011	6	5.8123	2011.42688	2455718.31228
2112	2011	7	3.0101	2011.50140	2455745.51006
2113	2011	7	30.2166	2011.57594	2455772.71661
2114	2011	8	26.4483	2011.65054	2455799.94828
2115	2011	9	22.7093	2011.72523	2455827.20929
2116	2011	10	19.9942	2011.79998	2455854.49419
2117	2011	11	16.2958	2011.87478	2455881.79579
2118	2011	12	13.6117	2011.94962	2455909.11169
2119	2012	1	9.9416	2012.02443	2455936.44159
2120	2012	2	6.2830	2012.09913	2455963.78303
2121	2012	3	4.6191	2012.17382	2455991.11912
2122	2012	3	31.9276	2012.24844	2456018.42757
2123	2012	4	28.1932	2012.32293	2456045.69319
2124	2012	5	25.4177	2012.39732	2456072.91767
2125	2012	6	21.6183	2012.47163	2456100.11832
2126	2012	7	18.8190	2012.54595	2456127.31900
2127	2012	8	15.0398	2012.62033	2456154.53976
2128	2012	9	11.2897	2012.69478	2456181.78971
2129	2012	10	8.5664	2012.76931	2456209.06638
2130	2012	11	4.8622	2012.84389	2456236.36215
2131	2012	12	2.1725	2012.91850	2456263.67244
2132	2012	12	29.4975	2012.99316	2456290.99750
2133	2013	1	25.8349	2013.06804	2456318.33490
2134	2013	2	22.1755	2013.14295	2456345.67546
2135	2013	3	21.4971	2013.21780	2456372.99708
2136	2013	4	17.7802	2013.29255	2456400.28017
2137	2013	5	15.0194	2013.36718	2456427.51934
2138	2013	6	11.2266	2013.44172	2456454.72660
2139	2013	7	8.4245	2013.51623	2456481.92451
2140	2013	8	4.6357	2013.59078	2456509.13571
2141	2013	8	31.8741	2013.66541	2456536.37405
2142	2013	9	28.1411	2013.74011	2456563.64112
2143	2013	10	25.4303	2013.81488	2456590.93029
2144	2013	11	21.7350	2013.88969	2456618.23503
2145	2013	12	19.0541	2013.96453	2456645.55411
2146	2014	1	15.3869	2014.03942	2456672.88689
2147	2014	2	11.7287	2014.11433	2456700.22875
2148	2014	3	11.0606	2014.18921	2456727.56058
2149	2014	4	7.3605	2014.26400	2456754.86045
2150	2014	5	4.6164	2014.33868	2456782.11638
2151	2014	5	31.8339	2014.41324	2456809.33389
2152	2014	6	28.0326	2014.48776	2456836.53259
2153	2014	7	25.2363	2014.56229	2456863.73632
2154	2014	8	21.4631	2014.63689	2456890.96312
2155	2014	9	17.7194	2014.71156	2456918.21937
2156	2014	10	15.0008	2014.78630	2456945.50076
2157	2014	11	11.2998	2014.86110	2456972.79978
2158	2014	12	8.6131	2014.93593	2457000.11307
2159	2015	1	4.9403	2015.01080	2457000.11307
2160	2015	2	1.2806	2015.08570	2457054.78057
2161	2015	2	28.6191	2015.16060	2457082.11906
2162	2015	3	27.9337	2015.23543	2457109.43373
2163	2015	4	24.2072	2015.31016	2457136.70720
2164	2015	5	21.4380	2015.38476	2457163.93795

<u>Rotation</u>	<u>Year</u>	<u>Month</u>	<u>Day</u>	<u>Date</u>	<u>Julian Date</u>
2165	2015	6	17.6411	2015.45929	2457191.14110
2166	2015	7	14.83820	2015.53275	2457218.338203
2167	2015	8	11.05490	2015.60727	2457245.554895
2168	2015	9	7.30027	2015.68186	2457272.800271
2169	2015	10	4.57246	2015.75653	2457300.072455
2170	2015	10	31.86452	2015.83125	2457327.364522
2171	2015	11	28.17219	2015.90602	2457354.672191
2172	2015	12	25.49528	2015.98082	2457381.995281
2173	2016	1	21.83216	2016.05567	2457409.332162
2174	2016	2	18.17298	2016.13052	2457436.672980
2175	2016	3	16.49895	2016.20534	2457463.998954
2176	2016	4	12.79020	2016.28006	2457491.290195
2177	2016	5	10.03731	2016.35465	2457518.537307
2178	2016	6	6.24827	2016.42915	2457545.748269
2179	2016	7	3.44516	2016.50361	2457572.945155
2180	2016	7	30.65267	2016.57810	2457600.152674
2181	2016	8	26.88647	2016.65267	2457627.386466
2182	2016	9	23.14890	2016.72731	2457654.648903
2183	2016	10	20.43396	2016.80201	2457681.933959
2184	2016	11	16.73570	2016.87676	2457709.235702
2185	2016	12	14.05269	2016.95155	2457736.552692
2186	2017	1	10.38478	2017.02638	2457763.884783
2187	2017	2	6.72589	2017.10123	2457791.225894
2188	2017	3	6.06024	2017.17607	2457818.560244
2189	2017	4	2.36703	2017.25083	2457845.867028
2190	2017	4	29.63148	2017.32548	2457873.131476
2191	2017	5	26.85455	2017.40001	2457900.354548
2192	2017	6	23.05385	2017.47448	2457927.553848
2193	2017	7	20.25464	2017.54895	2457954.754641
2194	2017	8	16.47715	2017.62348	2457981.977151
2195	2017	9	12.72881	2017.69809	2458009.228812
2196	2017	10	10.00589	2017.77277	2458036.505894
2197	2017	11	6.30153	2017.84751	2458063.801530
2198	2017	12	3.61249	2017.92228	2458091.112489
2199	2017	12	30.93891	2017.99709	2458118.438907
2200	2018	1	27.27783	2018.07194	2458145.777835
2201	2018	2	23.61724	2018.14680	2458173.117239
2202	2018	3	22.93718	2018.22159	2458200.437184
2203	2018	4	19.21910	2018.29629	2458227.719104
2204	2018	5	16.45709	2018.37086	2458254.957094
2205	2018	6	12.66283	2018.44535	2458282.162832
2206	2018	7	9.86009	2018.51981	2458309.360091
2207	2018	8	6.07244	2018.59431	2458336.572438
2208	2018	9	2.31265	2018.66889	2458363.812652
2209	2018	9	29.58062	2018.74355	2458391.080624
2210	2018	10	26.86966	2018.81826	2458418.369662
2211	2018	11	23.17469	2018.89302	2458445.674690
2212	2018	12	20.49506	2018.96782	2458472.995059
2213	2019	1	16.82995	2019.04266	2458500.329947
2214	2019	2	13.17124	2019.11751	2458527.671238
2215	2019	3	12.50136	2019.19234	2458555.001361
2216	2019	4	8.79979	2019.26708	2458582.299787
2217	2019	5	6.05455	2019.34170	2458609.554551
2218	2019	6	2.27052	2019.41621	2458636.770521
2219	2019	6	29.46799	2019.49067	2458663.967986
2220	2019	7	26.67215	2019.56515	2458691.172151



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2221	2019	8	22.90082	2019.63970	2458718.400822
2222	2019	9	19.15856	2019.71433	2458745.658558
2223	2019	10	16.44019	2019.78902	2458772.940186
2224	2019	11	12.73924	2019.86376	2458800.239242
2225	2019	12	10.05352	2019.93854	2458827.553524
2226	2020	1	6.38316	2020.01337	2458854.883158
2227	2020	2	2.72356	2020.08822	2458882.223564
2228	2020	3	1.06058	2020.16307	2458909.560579
2229	2020	3	28.37358	2020.23785	2458936.873577
2230	2020	4	24.64588	2020.31251	2458964.145877
2231	2020	5	21.87532	2020.38706	2458991.375316
2232	2020	6	18.07700	2020.46154	2459018.576999
2233	2020	7	15.27578	2020.53600	2459045.775781
2234	2020	8	11.49356	2020.61052	2459072.993564
2235	2020	9	7.74017	2020.68512	2459100.240166
2236	2020	10	5.01333	2020.75979	2459127.513325
2237	2020	11	1.30610	2020.83451	2459154.806096
2238	2020	11	28.61440	2020.90928	2459182.114399
2239	2020	12	25.93814	2020.98409	2459209.438137
2240	2021	1	22.27545	2021.05893	2459236.775453
2241	2021	2	18.61607	2021.13379	2459264.116071
2242	2021	3	17.94096	2021.20860	2459291.440955
2243	2021	4	14.23043	2021.28331	2459318.730427
2244	2021	5	11.47574	2021.35791	2459345.975740
2245	2021	6	7.68560	2021.43240	2459373.185605
2246	2021	7	4.88247	2021.50687	2459400.382471
2247	2021	8	1.09087	2021.58136	2459427.590868
2248	2021	8	28.32590	2021.65592	2459454.825898
2249	2021	9	24.58943	2021.73057	2459482.089431
2250	2021	10	21.87528	2021.80527	2459509.375277
2251	2021	11	18.17766	2021.88002	2459536.677658
2252	2021	12	15.49530	2021.95481	2459563.995300
2253	2022	1	11.82796	2022.02965	2459591.327956
2254	2022	2	8.16916	2022.10450	2459618.669163
2255	2022	3	7.50278	2022.17934	2459646.002776
2256	2022	4	3.80800	2022.25409	2459673.307999
2257	2022	5	1.07057	2022.32874	2459700.570567
2258	2022	5	28.29219	2022.40326	2459727.792195
2259	2022	6	24.49104	2022.47773	2459754.991043
2260	2022	7	21.69241	2022.55220	2459782.192414
2261	2022	8	17.91609	2022.62674	2459809.416093
2262	2022	9	14.16895	2022.70135	2459836.668947
2263	2022	10	11.44693	2022.77604	2459863.946934
2264	2022	11	7.74324	2022.85077	2459891.243241
2265	2022	12	5.05484	2022.92554	2459918.554838
2266	2023	1	1.38189	2023.00036	2459945.881889
2267	2023	1	28.72115	2023.07521	2459973.221150
2268	2023	2	25.06017	2023.15006	2460000.560170
2269	2023	3	24.37884	2023.22486	2460027.878842
2270	2023	4	20.65892	2023.29955	2460055.158921
2271	2023	5	17.89521	2023.37411	2460082.395208
2272	2023	6	14.10007	2023.44860	2460109.600070
2273	2023	7	11.29754	2023.52306	2460136.797536
2274	2023	8	7.51089	2023.59757	2460164.010891
2275	2023	9	3.75234	2023.67215	2460191.252345
2276	2023	10	1.02135	2023.74681	2460218.521347

<u>Rotation</u>	<u>Year</u>	<u>Month</u>	<u>Day</u>	<u>Date</u>	<u>Julian Date</u>
2277	2023	10	28.31112	2023.82152	2460245.811124
2278	2023	11	24.61678	2023.89628	2460273.116785
2279	2023	12	21.93781	2023.97108	2460300.437806
2280	2024	1	18.27320	2024.04592	2460327.773196
2281	2024	2	14.61443	2024.12078	2460355.114426
2282	2024	3	12.94361	2024.19560	2460382.443615
2283	2024	4	9.24035	2024.27034	2460409.740353
2284	2024	5	6.49327	2024.34495	2460436.993266
2285	2024	6	2.70797	2024.41946	2460464.207975
2286	2024	6	29.90523	2024.49392	2460491.405229
2287	2024	7	27.11015	2024.56841	2460518.610149
2288	2024	8	23.34004	2024.64296	2460545.840037
2289	2024	9	19.59892	2024.71759	2460573.098917
2290	2024	10	16.88138	2024.79228	2460600.381384
2291	2024	11	13.18109	2024.86703	2460627.681088
2292	2024	12	10.49602	2024.94181	2460654.996017
2293	2025	1	6.82625	2025.01664	2460682.326253
2294	2025	2	3.16687	2025.09149	2460709.666870
2295	2025	3	2.50331	2025.16633	2460737.003307
2296	2025	3	29.81486	2025.24111	2460764.314863
2297	2025	4	26.08529	2025.31577	2460791.585286
2298	2025	5	23.31315	2025.39032	2460818.813153
2299	2025	6	19.51419	2025.46479	2460846.014192
2300	2025	7	16.71339	2025.53926	2460873.213395