

727  
~~731~~

731

and then

A10817

even integer not ex

A10818 and

(5) p(n)

MANY more

If r=2, 4, 6, 8, 1

=r(p^2-1)/24, then

(6)

VAN DER POL h

(7)

and it is also true

(8)

(9) p<sub>10</sub>(np +

(10) p<sub>14</sub>(np +

and that for any

(11) p

Some examples fo

(12) p<sub>5</sub>(

more generally, if

A<sub>5</sub> = 5/24 · (25<sup>n</sup> - 1),

(13) p<sub>5</sub>(5<sup>2n+1</sup>

Also

(14) p<sub>5</sub>(343n

(15) p<sub>5</sub>(1331

(16) p<sub>7</sub>(125n

(17) p<sub>9</sub>(125n

(18) p<sub>11</sub>(125

To facilitate the function p<sub>r</sub>(n) for digital computer D.C. These are the was employed. Th occurred rather qu succeeded in calcul

MATHEMATICS

A TABLE OF THE COEFFICIENTS OF THE POWERS OF  $\eta(\tau)$ <sup>1)</sup>

BY

MORRIS NEWMAN

(Communicated by Prof. B. VAN DER POL at the meeting of November 26, 1955)

The Dedekind modular form  $\eta(\tau)$ , defined by

(1) 
$$\eta(\tau) = x^{1/24} \prod_{n=1}^{\infty} (1 - x^n), \quad x = \exp 2\pi i \tau, \quad \text{Im } \tau > 0$$

plays a fundamental role in the theory of the elliptic modular functions and in those parts of the analytic theory of numbers concerned with modular transformations of series. The coefficients of the powers of  $\eta(\tau)$  possess numerous arithmetical properties of great interest and include, for example, the partition function  $p(n)$  (the number of unrestricted partitions of  $n$ ) and Ramanujan's function  $\tau(n)$ , generated by  $x^{1/24}\eta^{-1}(\tau)$  and  $\eta^{24}(\tau)$ , respectively. We define

(2) 
$$\prod_{n=1}^{\infty} (1 - x^n)^r = \sum_{n=0}^{\infty} p_r(n) x^n$$

and make the convention that  $p_r(n)$  is zero if  $n$  is not a non-negative integer.

$p_1(n)$ ,  $p_3(n)$  are well-known functions: Indeed EULER and JACOBI have shown respectively that

(3) 
$$\begin{cases} \prod_{n=1}^{\infty} (1 - x^n) = \sum_{n=-\infty}^{\infty} (-1)^n x^{(3n^2+n)/2} \\ \prod_{n=1}^{\infty} (1 - x^n)^3 = \sum_{n=0}^{\infty} (-1)^n (2n+1) x^{(n^2+n)/2} \end{cases}$$

$p_{24}(n) = \tau(n+1)$  has also been investigated thoroughly. RAMANUJAN conjectured and MORDELL proved that  $\tau(n)$  is multiplicative. As a matter of fact MORDELL showed that if  $p$  is a prime then

(4) 
$$\tau(np) = \tau(n) \tau(p) - p^{11} \tau(n/p)$$

as well as similar identities for all positive even  $r$  dividing 24 [1].

In some recent papers [2, 3, 4, 5] the author made a study of these coefficients, and succeeded in showing that identities similar to (4) exist for all positive integral  $r$  and all primes  $p > 3$ . For example, if  $r$  is an

<sup>1)</sup> The preparation of this paper was supported (in part) by the Office of Naval Research.

even integer not exceeding 24 such that  $\delta = r(p-1)/24$  is an integer, then

$$(5) \quad p_r(np + \delta) = p_r(n) p_r(\delta) - p^{(r/2)-1} p_r\left(\frac{n-\delta}{p}\right).$$

If  $r=2, 4, 6, 8, 10, 14, 26$ ,  $p$  satisfies  $r(p+1) \equiv 0 \pmod{24}$ , and  $\Delta = r(p^2-1)/24$ , then

$$(6) \quad p_r(np + \Delta) = (-p)^{(r/2)-1} p_r(n/p).$$

VAN DER POL has shown the especially simple formula [6]

$$(7) \quad p_8(2n+1) = -8 p_8(n/2)$$

and it is also true that

$$(8) \quad p_6(3n+2) = 9 p_6(n/3)$$

$$(9) \quad p_{10}(np + \frac{5}{12}(p^2-1)) = p^4 p_{10}(n/p) \quad (p \equiv 7 \pmod{12})$$

$$(10) \quad p_{14}(np + \frac{7}{12}(p^2-1)) = -p^6 p_{14}(n/p) \quad (p \equiv 5 \pmod{12})$$

and that for any prime  $p > 3$ ,

$$(11) \quad p_2(np + \frac{1}{2}(p^2-1)) = (-1)^{(p+1)/2} p_2(n/p).$$

Some examples for  $r$  odd are

$$(12) \quad p_5(125n+5) + 6 p_5(5n) + 125 p_5\left(\frac{n-1}{5}\right) = 0;$$

more generally, if  $\lambda_0=1$ ,  $\lambda_1=-6$ ,  $\lambda_{\alpha+1}+6\lambda_{\alpha}+125\lambda_{\alpha-1}=0$  ( $\alpha \geq 1$ ); and if  $\Delta_{\alpha}=5/24 \cdot (25^{\alpha}-1)$ , then

$$(13) \quad p_5(5^{2\alpha+1}n + \Delta_{\alpha}) - \lambda_{\alpha} p_5(5n) + 125 \lambda_{\alpha-1} p_5\left(\frac{n-1}{5}\right) = 0.$$

Also

$$(14) \quad p_5(343n+157) - 16 p_5(7n+3) + 7^3 p_5\left(\frac{n-1}{7}\right) = 0$$

$$(15) \quad p_5(1331n+388) - 12 p_5(11n+3) + 11^3 p_5\left(\frac{n-2}{11}\right) = 0$$

$$(16) \quad p_7(125n+57) - 66 p_7(5n+2) + 5^5 p_7\left(\frac{n-1}{5}\right) = 0$$

$$(17) \quad p_9(125n+109) + 210 p_9(5n+4) + 5^7 p_9\left(\frac{n-1}{5}\right) = 0$$

$$(18) \quad p_{11}(125n+36) + 2694 p_{11}(5n+1) + 5^9 p_{11}\left(\frac{n-2}{5}\right) = 0.$$

To facilitate the study of these coefficients, the author tabulated the function  $p_r(n)$  for positive values of  $r$  on SEAC, the high speed electronic digital computer of the National Bureau of Standards at Washington, D.C. These are the table which are given here. A single precision program was employed. The word length of SEAC is 44 binary digits, so overflow occurred rather quickly for large values of  $r$  and  $n$ . Nevertheless, the author succeeded in calculating  $p_r(n)$  for  $1 \leq r \leq 13$ ,  $1 \leq n \leq 800$ ;  $r=14$ ,  $1 \leq n \leq 750$ ;

$r=15, 1 \leq n \leq 500$ ;  $r=16, 1 \leq n \leq 400$ ; as well as for larger values of  $r$  and correspondingly fewer values of  $n$ . The range of the table could easily have been extended by means of a double precision program, but this did not seem especially desirable, the table being extensive enough for most purposes. The computations were performed on two separate occasions using different recursion formulas, as a check. The first,

$$(19) \quad np_r(n) = \sum_{k=1}^n (rk + k - n) \lambda_k p_r(n - k),$$

where

$$\lambda_k = \begin{cases} (-1)^s & k = (3s^2 \pm s)/2 \\ 0 & \text{otherwise} \end{cases}$$

possesses the obvious advantage of sparseness, there being at most  $O(\sqrt{n})$  terms in the summation. The second,

$$(20) \quad np_r(n) = -r \sum_{k=1}^n \sigma(k) p_r(n - k), \quad \sigma(k) = \sum_{d|k} d,$$

is somewhat simpler, but is not sparse, there being  $n$  terms in the summation. The total time consumed by SEAC in performing both sets of computations did not exceed 4 hours.

These coefficients had previously been calculated by FERGUSON and MILLER on a desk calculator for  $1 \leq r \leq 24, 1 \leq n \leq 300$ ; as well as for some additional values of  $r$  and  $n$ . Unfortunately, FERGUSON and MILLER did not publish their table. However, the author received from Professor LEHMER a portion of their table which he was able to check against his own results. The tables agreed in every detail.

*National Bureau of Standards  
Washington, D.C.*

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n	p <sub>1</sub> (n)	p <sub>2</sub> (n)	p <sub>3</sub> (n)	p <sub>4</sub> (n)	p <sub>5</sub> (n)	p <sub>6</sub> (n)	p <sub>7</sub> (n)	p <sub>8</sub> (n)
1								
2	-1	-2	-3	-4	-5	-6	-7	-8
3	0	-1	0	-2	1	-3	2	-4
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0

n	p <sub>1</sub> (n)	p <sub>2</sub> (n)	p <sub>3</sub> (n)	p <sub>4</sub> (n)	p <sub>5</sub> (n)	p <sub>6</sub> (n)	p <sub>7</sub> (n)	p <sub>8</sub> (n)
101	0	-2	0	20	-90	-486	476	3584
102	0	-1	0	10	-120	-782	1190	10640
103	0	-2	0	25	-35	0	644	0
104	0	-2	0	60	0	0	2429	10010
105	0	4	29	44	15	58	-1317	-7072
106	0	0	0	18	65	-330	-1631	0
107	0	0	0	-40	-60	0	-2009	0
108	0	2	0	0	115	290	574	8750
109	0	0	0	0	105	0	-2895	0
110	0	2	0	38	191	441	679	992
111	0	0	0	0	160	468	-931	0
112	0	0	0	0	50	-55	-702	-4930
113	0	0	0	0	-56	-180	0	-1778
114	0	3	0	0	5	850	2912	-5720
115	0	-2	0	8	120	522	637	0
116	0	0	0	0	-145	0	-21	-11914
117	-1	0	0	0	-80	-130	0	-280
118	0	4	0	0	-22	-160	0	1470
119	0	2	0	0	305	810	1554	0
120	0	0	-31	-80	-230	-700	-1435	-3723
121	0	-2	0	44	85	-780	266	11200
122	0	0	0	50	-20	0	-1823	4340
123	0	0	0	-16	-185	-1260	0	-1442
124	0	-2	0	0	-270	0	3136	12350
125	0	0	0	-52	-100	0	700	0
126	-1	0	0	26	260	1188	-1218	-8584
127	0	-2	0	8	40	-918	-3584	0
128	0	0	0	2	70	0	-3661	0
129	0	2	0	20	230	238	10640	0
130	0	0	0	0	-89	-558	-2618	0
131	0	-2	0	56	190	0	882	0
132	0	0	0	28	-120	529	861	1190
133	0	-2	0	0	-120	180	2688	-8000
134	0	-2	0	0	15	0	-4340	-21560
135	0	-2	0	56	160	682	2324	0
136	0	0	33	64	140	1092	3087	8246
137	0	0	0	-52	-210	-193	-1330	-14560
138	0	2	0	4	50	0	-1617	0
139	0	-2	0	3	20	330	2163	0
140	0	-1	0	-27	90	0	1764	17138
141	0	0	0	44	95	180	1925	0
142	0	0	0	-58	-135	-462	1260	3640
143	0	0	0	56	30	0	658	0
144	0	0	0	0	-95	-1150	-2079	-2590
145	1	2	0	-32	-340	0	1442	5168
146	0	-2	0	-34	-115	-540	623	14924
147	0	0	0	2	-185	0	-980	0
148	0	-2	0	-80	65	930	2177	0
149	0	0	0	0	55	0	-5649	-10240
150	0	2	0	0	120	-1102	-4067	0

n	p <sub>1</sub> (n)	p <sub>2</sub> (n)	p <sub>3</sub> (n)	p <sub>4</sub> (n)	p <sub>5</sub> (n)	p <sub>6</sub> (n)	p <sub>7</sub> (n)	p <sub>8</sub> (n)
51	1	2	0	-16	45	-108	791	0
52	0	1	0	-22	70	0	238	-3850
53	0	-2	0	0	65	0	539	0
54	0	0	0	-10	45	0	-511	-3400
55	0	2	21	32	-55	-300	-819	0
56	0	0	0	-34	-100	99	112	2703
57	1	0	0	-8	-45	412	924	4160
58	0	0	0	14	10	210	-1245	-2500
59	0	-2	0	0	-115	0	-875	0
60	0	0	0	45	109	418	133	3458
61	0	-2	0	-4	-160	-254	-665	0
62	0	0	0	38	55	0	-28	0
63	0	-2	0	8	-20	0	889	0
64	0	0	0	0	-70	-510	-105	-1150
65	0	0	0	0	110	378	2093	-456
66	0	-4	-23	-34	-20	-540	-770	-5236
67	0	0	0	-8	105	138	1120	0
68	0	0	0	38	185	0	336	0
69	0	-2	0	0	70	-230	-1351	-4480
70	-1	-1	0	-32	-130	-462	14	6032
71	0	2	0	-56	85	0	-630	0
72	0	0	0	2	65	611	1400	6160
73	0	0	0	-28	60	570	-483	0
74	0	0	0	0	-50	0	-1813	-3220
75	0	0	0	0	-1	0	-1820	0
76	0	0	0	-16	-130	132	749	4466
77	-1	-2	0	20	10	0	-560	0
78	0	0	25	66	-55	50	1071	0
79	0	4	0	-40	-165	-150	1008	0
80	0	0	0	-20	-110	0	602	-7378
81	0	0	0	44	165	110	0	-1456
82	0	0	0	0	15	637	-3920	0
83	0	0	0	32	-630	-651	0	0
84	0	-2	0	0	-30	-350	125	0
85	0	0	0	40	-160	0	1162	4096
86	0	-2	0	0	45	0	126	2200
87	0	0	0	8	-90	-598	-1274	0
88	0	0	0	-23	60	450	-378	0
89	0	2	0	0	-5	0	7	7040
90	0	0	0	-46	10	361	-980	812
91	0	-2	-27	-40	100	660	154	0
92	1	0	0	18	165	162	-2800	-4030
93	0	0	0	16	-155	-550	-1421	0
94	0	-2	0	0	60	420	1078	5600
95	0	0	0	-16	-230	0	1841	0
96	0	-2	0	-46	-145	0	315	-4913
97	0	0	0	0	-55	378	980	-9520
98	0	0	0	-32	0	0	756	0
99	0	0	0	0	35	650	2653	0
100	1	2	0	26	100	-798	-3374	-10400

n	p <sub>1</sub> (n)	p <sub>2</sub> (n)	p <sub>3</sub> (n)	p <sub>4</sub> (n)	p <sub>5</sub> (n)	p <sub>6</sub> (n)	p <sub>7</sub> (n)	p <sub>8</sub> (n)
151	0	2	0	-40	-210	-726	-3801	0
152	0	0	0	0	190	0	3332	12710
153	0	0	-35	-52	-95	-70	-196	0
154	0	1	0	50	275	210	71	-19780
155	1	0	0	72	5	0	-105	0
156	0	-2	0	26	-220	-2100	-427	-17600
157	0	0	0	0	160	2100	3185	0
158	0	0	0	0	-20	-105	28	-7000
159	0	0	0	0	15	490	-1393	0
160	0	0	0	-15	300	1218	553	-7700
161	0	2	0	20	250	0	-1575	10648
162	0	0	0	64	160	0	-4228	20900
163	0	0	0	0	65	-630	-1281	0
164	0	0	0	0	-200	-990	2247	0
165	0	0	0	44	300	1178	7633	19712
166	0	2	0	-10	-145	0	-1022	-15136
167	0	0	0	0	-15	0	420	0
168	0	-2	0	62	40	770	14	0
169	0	-2	0	0	10	-1350	-7364	-3040
170	0	-4	0	14	-260	0	2310	23800
171	0	2	37	-8	-340	-1260	-1659	0
172	0	0	0	15	900	0	-1120	0
173	0	0	0	-52	155	0	665	0
174	0	-2	0	0	-110	-540	-4480	-12040
175	0	0	0	-64	-1	-1302	-1638	0
176	-1	-2	0	16	-35	0	-1407	-12167
177	0	0	0	-28	-25	-518	1344	-8

n	p <sub>1</sub> (n)	p <sub>2</sub> (n)	p <sub>3</sub> (n)	p <sub>4</sub> (n)	p <sub>5</sub> (n)	p <sub>6</sub> (n)	p <sub>7</sub> (n)	p <sub>8</sub> (n)
201	0	0	0	0	-110	0	-1603	-13984
202	0	2	0	0	-60	-1518	-2002	-28420
203	0	2	0	0	-295	0	-2716	0
204	0	0	0	-45	-125	0	4039	17390
205	0	0	0	68	-165	858	1330	0
206	0	2	0	-70	-135	0	-3423	-26656
207	0	0	0	0	185	1258	-4459	0
208	0	0	0	14	-130	-1470	77	15625
209	0	-4	0	0	-195	0	1211	30800
210	1	-2	41	28	260	923	6223	1892
211	0	0	0	-104	-360	414	3220	0
212	0	0	0	-128	40	0	1050	-3990
213	0	-2	0	-28	380	410	-1365	0
214	0	0	0	0	280	1650	9660	13160
215	0	0	0	56	410	0	-4095	0
216	0	2	0	-46	-185	-1980	-3262	0
217	0	0	0	68	-250	0	6860	27200
218	0	-2	0	0	-15	1170	3423	0
219	0	0	0	0	165	1610	1988	0
220	0	0	0	-22	-200	738	-2842	-20482
221	0	0	0	-4	105	0	-5390	0
222	1	0	0	-32	195	0	-6300	0
223	0	-2	0	40	260	0	-616	0
224	0	-2	0	0	235	0	1302	24050
225	0	-4	0	-8	-40	-2700	-4431	-21624
226	0	-2	0	0	10	228	-497	-26600
227	0	0	0	0	40	-1782	854	0
228	0	2	0	63	-105	0	2191	0
229	0	0	0	0	265	0	3255	-33280
230	0	0	0	74	20	0	-7217	-16072
231	0	0	-43	-80	-160	-770	-700	0
232	0	0	0	112	-235	258	-5453	0
233	0	-2	0	68	-70	0	3934	20000
234	0	-1	0	0	-420	-430	-5551	6160
235	0	0	0	0	200	1482	2233	0
236	0	2	0	4	-75	0	714	36146
237	0	0	0	20	125	-1100	1988	0
238	0	-2	0	-58	-505	-1230	-3419	0
239	0	0	0	0	255	0	8029	0
240	0	0	0	0	-110	961	11788	35400
241	0	0	0	-76	-30	1140	2667	-27664
242	0	0	0	2	-45	0	-2240	-10780
243	0	0	0	56	270	0	77	0
244	0	0	0	-76	-25	-1890	1960	15050
245	0	0	0	-76	-500	-1638	-4733	0
246	0	2	0	64	310	2340	5796	31376
247	-1	0	0	-40	-20	0	-6020	0
248	0	4	0	-34	-260	0	1988	0
249	0	2	0	0	265	1850	4340	0
250	0	-2	0	-32	180	0	-7427	-23452

n	p <sub>1</sub> (n)	p <sub>2</sub> (n)	p <sub>3</sub> (n)	p <sub>4</sub> (n)	p <sub>5</sub> (n)	p <sub>6</sub> (n)	p <sub>7</sub> (n)	p <sub>8</sub> (n)
301	1	2	0	-32	5	-2508	2660	0
302	0	0	0	-90	-455	0	7266	44840
303	0	-2	0	0	0	20	490	5908
304	0	0	0	50	-115	1410	5894	0
305	0	0	0	68	55	0	-7014	-35728
306	0	2	0	0	-635	539	-735	2756
307	0	0	0	112	-110	2442	-3080	0
308	0	2	0	21	-180	1690	-7875	-13750
309	0	2	0	0	-290	-2150	-13412	0
310	0	3	0	86	40	3300	14364	3192
311	0	-2	0	56	-20	0	-1918	0
312	0	0	0	-82	-320	-1598	-10290	-55510
313	0	2	0	-4	75	0	5474	0
314	0	2	0	0	105	0	4900	0
315	0	0	0	-56	200	1300	8036	0
316	0	-2	0	112	225	0	-6629	-83300
317	0	0	0	0	260	0	-7280	0
318	0	0	0	0	80	0	-3199	0
319	0	0	0	0	-730	-2070	-13748	0
320	0	0	0	0	-200	0	1617	65073
321	0	-2	0	0	330	3060	6188	59024
322	0	0	0	62	60	2322	-3080	-50020
323	0	2	0	-104	-45	0	-1445	0
324	0	2	0	0	280	-2590	-5572	51520
325	0	0	-51	-76	80	-102	-700	11648
326	0	0	0	160	345	-2268	5922	0
327	0	-2	0	-8	215	0	5334	0
328	0	0	0	0	-345	-1980	5901	0
329	0	0	0	20	485	0	6804	31360
330	-1	0	0	-128	-275	-2542	3157	-45628
331	0	0	0	-40	-45	990	-525	0
332	0	0	0	-70	360	10192	28910	0
333	0	0	0	-52	540	0	-3346	0
334	0	0	0	0	10	98	0	0
335	0	-2	0	-88	-40	-918	-6734	0
336	0	-4	0	-34	225	-828	7014	50654
337	0	0	0	68	-25	0	-5810	0
338	0	2	0	2	55	0	9300	0
339	0	-4	0	0	-370	0	5894	0
340	0	0	0	28	-420	1122	1113	-40138
341	0	-2	0	0	-620	0	3045	-32768
342	0	0	0	-10	380	3531	1680	-61680
343	0	0	0	0	-35	2730	-4480	0
344	0	2	0	0	-20	-2430	-8379	-15370
345	-1	0	0	16	-210	-1862	-1813	-17600
346	0	2	0	64	170	1380	-357	21476
347	0	0	0	-88	-340	0	7840	0
348	0	-2	0	38	480	0	546	0
349	0	0	0	0	-545	0	2548	0
350	0	-2	0	0	1	0	-10388	-60352

n	p <sub>1</sub> (n)	p <sub>2</sub> (n)	p <sub>3</sub> (n)	p <sub>4</sub> (n)	p <sub>5</sub> (n)	p <sub>6</sub> (n)	p <sub>7</sub> (n)	p <sub>8</sub> (n)
251	0	0	0	0	265	0	686	0
252	0	-1	0	0	-45	-1118	-2548	-41470
253	0	0	45	-36	110	90	-3493	0
254	0	-2	0	-70	265	-270	952	-12920
255	0	2	0	-64	-54	-1558	-4172	0
256	0	0	0	0	580	198	903	-4606
257	0	0	0	-52	-125	0	4018	9200
258	0	0	0	62	-55	-2030	-5691	-38500
259	0	2	0	0	165	660	-4725	0
260	-1	-2	0	112	140	0	2457	0
261	0	4	0	44	-325	0	-5509	3648
262	0	0	0	-22	-345	-1998	-1582	43400
263	0	0	0	22	265	810	448	0
264	0	2	0	0	-220	0	1785	-12740
265	0	-2	0	-80	200	1722	1421	-41888
266	0	0	0	50	505	0	3836	0
267	0	0	0	88	5	-1462	-3920	0
268	0	-2	0	-58	-170	-2940	1274	0
269	0	0	0	0	140	0	4102	0
270	0	0	0	26	-130	0	14742	39368
271	0	-2	0	80	70	0	1820	0
272	0	0	0	0	-350	1089	6720	-29120
273	0	0	0	0	-450	2170	1106	0
274	0	0	0	0	265	1170	-4662	-12220
275	0	2	0	40	-380	0	-3841	0
276	0	-2	47	-70	-30	1800	-700	17056
277	0	0	0	68	225	232	-840	35640
278	0	0	0	74	90	0	-945	0
279	0	0	0	80	-335	-470	2807	0
280	0	-2	0	-41	45	0	2631	-24389
281	0	-2	0	-56	-150	756	1078	-48256
282	0	0	0	-82	40	658	-1911	-26620
283	0	0	0	-64	240	0	4900	0
284	0	0	0	0	570	0	-13797	-46690
285	0	0	0	0	291	0	238	0
286	0	-2	0	0	45	-2652	-3129	31304
287	1	0	0	-40	-340	0	5096	0
288	0	-2	0	-64	55	2050	-2912	0
289	0	-2	0	0	420	-780	-10290	-49280
290	0	1	0	-34	-20	0	-3717	61600
291	0	0	0	80	-60	-1260	-4389	0
292	0	0	0	10	-45	5600	2191	50150
293	0	2	0	-52	-50	0	0	0
294	0	2	0	0	100	0	-5655	-20680
295	0	2	0	0	-140	-2262	5614	0
296	0	0	0	14	105	0	-3332	7600
297	0	0	0	0	330	756	10220	25760
298	0	-2	0	-82	-360	-1710	2961	0
299	0	-4	0	0	330	0	3066	0
300	0	0	49	-74	320	98	-3787	0

n	p <sub>1</sub> (n)	p <sub>2</sub> (n)	p <sub>3</sub> (n)	p <sub>4</sub> (n)	p <sub>5</sub> (n)	p <sub>6</sub> (n)	p <sub>7</sub> (n)	p <sub>8</sub> (n)
351	0	0	53	-72	115	-2772	4501	0
352	0	-3	0	82	-220	-318	-18396	34960
353	0	0	0	16	225	1530	658	0
354	0	0	0	0	-355	-1820	-8750	67340
355	0	2	0	32	-20	2058	-3101	0
356	0	-2	0	0	74	-270	3430	34494
357	0	0	0	92	-305	-742	-7216	-56320
358	0	2	0	64	165	2610	-707	65000
359	0	0	0	0	-140	0	4179	0
360	0	0	0	62	280	0	-203	0
361	0	0	0	0	-345	-3666	-7784	-6496
362	0	0	0	0	425	0	4508	12980
363	0	2	0	-83	90	-2870	3829	0
364	0	0	0	0	545	0	14994	61490
365	0	4	0	88	670	0	17570	0
366	0	0	0	-44	-420	-3420	-11396	-77000
367	0	0	0	8	560	-300	280	0
368	0	0	0	47				

n	P <sub>1</sub> (n)	P <sub>2</sub> (n)	P <sub>3</sub> (n)	P <sub>4</sub> (n)	P <sub>5</sub> (n)	P <sub>6</sub> (n)	P <sub>7</sub> (n)	P <sub>8</sub> (n)
401	0	2	0	0	275	0	7399	83200
402	0	-2	0	160	345	-3182	602	0
403	0	0	0	0	85	-2550	12425	0
404	0	-4	0	-70	-800	0	7322	-56750
405	0	-2	0	0	-15	2842	-2674	-28572
406	0	0	57	-86	525	840	6223	0
407	0	0	0	-56	90	-342	-11466	0
408	0	0	0	16	-160	0	378	-7125
409	0	-2	0	0	140	570	-756	-85120
410	0	0	0	0	40	0	4368	63308
411	0	-2	0	80	390	0	-7	0
412	0	0	0	-22	-170	-3900	-1862	-83230
413	0	-2	0	160	330	0	6636	0
414	0	0	0	0	345	-1870	9212	0
415	0	0	0	0	10	0	21861	0
416	0	-2	0	0	640	3780	4312	-49714
417	0	0	0	-100	-520	-2438	-17220	-80080
418	0	0	0	4	835	0	-3367	0
419	0	0	0	0	345	0	-9702	0
420	0	1	0	26	130	-1357	-11732	92100
421	0	0	0	-180	-430	2100	10549	56576
422	0	0	0	0	215	0	-9100	69160
423	0	2	0	8	-10	2090	-721	0
424	0	0	0	0	305	3330	-12040	-49280
425	-1	-2	0	-52	-500	0	-16996	0
426	0	2	0	-46	-230	0	-3262	85484
427	0	0	0	0	-365	1482	8372	0
428	0	0	0	16	-350	0	-10108	0
429	0	0	0	-100	75	5940	15113	0
430	0	-4	0	0	-220	-2958	-17724	-41272
431	0	0	0	0	56	70	3948	0
432	0	0	0	98	380	0	9240	81650
433	0	0	2	0	-490	-2310	-6041	-70000
434	0	0	2	0	-480	-1710	9646	48620
435	0	0	-59	-152	-460	-118	10626	0
436	0	2	0	86	195	3588	2366	0
437	0	0	0	112	270	0	-6510	0
438	0	0	0	0	-280	-590	-2940	0
439	0	0	0	0	-80	0	-11326	0
440	0	2	0	-128	-30	0	21	76538
441	0	0	0	-100	445	-2700	-6468	-7936
442	-1	0	0	-32	-95	-924	13580	15860
443	0	4	0	56	-250	-3510	19383	0
444	0	3	0	0	70	2530	3335	-160160
445	0	-2	0	44	-70	2100	12369	0
446	0	0	0	-70	-85	0	-5523	-127400
447	0	0	0	80	-225	-3478	-1400	0
448	0	0	0	62	-400	0	-10864	0
449	0	0	0	0	-25	0	13930	39440
450	0	0	0	100	580	1298	9534	-23000

n	P <sub>1</sub> (n)	P <sub>2</sub> (n)	P <sub>3</sub> (n)	P <sub>4</sub> (n)	P <sub>5</sub> (n)	P <sub>6</sub> (n)	P <sub>7</sub> (n)	P <sub>8</sub> (n)
501	0	0	0	-56	1010	4788	1722	0
502	0	2	0	0	-650	882	-8162	0
503	0	-2	0	-88	-230	0	-13006	0
504	0	0	0	55	435	-3710	-22050	0
505	0	0	0	-8	180	19796	0	68672
506	0	2	0	110	145	891	-1134	17556
507	0	0	0	0	-560	4042	10619	0
508	0	0	0	86	-45	0	210	-22750
509	0	0	0	0	-345	0	-12782	0
510	0	0	0	38	-400	1700	-7742	31808
511	0	2	0	104	825	4692	10766	0
512	0	0	0	112	270	0	-13062	0
513	0	0	0	-28	-300	-2950	-14826	0
514	0	0	0	0	-160	-3630	7567	100100
515	0	0	0	0	490	3978	14056	0
516	0	0	0	64	460	0	1519	-49786
517	0	0	0	0	565	-1638	4200	-85120
518	0	-2	0	-106	-475	0	-5950	0
519	0	2	0	0	140	0	-2989	0
520	0	1	0	14	460	2562	21707	-64400
521	0	6	0	0	-410	0	-1659	0
522	0	0	0	28	-2100	3922	-21560	-121660
523	0	2	0	-80	-370	0	742	0
524	0	0	0	0	-100	1890	7049	93170
525	0	-2	0	0	-500	0	9016	0
526	0	0	0	0	-20	-348	378	-118816
527	0	0	0	-112	-705	0	4354	0
528	0	2	65	98	-60	130	12810	0
529	0	0	0	-100	10	-4620	23793	-9520
530	0	-2	0	-94	-55	0	4368	-57200
531	0	2	0	80	-140	-2520	11410	0
532	-1	0	0	-80	-260	-2142	8918	-114550
533	0	2	0	40	-180	0	3857	64000
534	0	0	0	0	-135	-910	-15155	89320
535	0	-2	0	-72	-240	-4162	-13608	0
536	0	0	0	110	640	0	-6846	84854
537	0	0	0	0	-535	0	14210	172480
538	0	0	0	-46	485	1170	-1379	0
539	0	-2	0	0	15	0	-11467	0
540	0	-2	0	-80	-610	-3422	-26929	-108862
541	0	0	0	0	30	-1740	-4102	0
542	0	0	0	-70	250	3762	5880	121520
543	0	0	0	-88	5	1620	-5824	0
544	0	2	0	0	490	0	15477	0
545	0	0	0	-4	-270	0	-13874	-65968
546	0	2	0	0	-175	0	-8344	0
547	0	0	0	-144	290	0	-11480	0
548	0	-2	0	0	520	0	1183	0
549	0	0	0	0	-405	-2380	125217	116480
550	0	0	0	86	640	0	5250	-26600

n	P <sub>1</sub> (n)	P <sub>2</sub> (n)	P <sub>3</sub> (n)	P <sub>4</sub> (n)	P <sub>5</sub> (n)	P <sub>6</sub> (n)	P <sub>7</sub> (n)	P <sub>8</sub> (n)
451	0	-2	0	104	-440	-2166	-3297	0
452	0	0	0	38	275	0	4760	0
453	0	-2	0	-28	-60	-3430	196	0
454	0	2	0	-10	60	0	-3381	0
455	0	0	0	104	550	0	16891	0
456	0	4	0	0	735	-1210	-11718	-38553
457	0	0	0	-32	-155	0	-3185	45760
458	0	0	0	14	420	0	700	0
459	0	0	0	0	550	0	-13146	0
460	0	2	0	0	-49	0	-12705	98642
461	0	0	0	-76	205	-972	-9779	0
462	0	0	0	0	-55	1849	18760	66640
463	0	-2	0	136	5	5460	-5159	0
464	0	-2	0	0	-60	0	-26670	-104720
465	0	2	61	92	80	122	-7336	95312
466	0	0	0	-94	-530	3300	4165	29036
467	0	0	0	-88	-645	0	-700	0
468	0	0	0	-53	-60	610	2093	0
469	0	-4	0	0	665	2970	-13678	0
470	0	-2	0	32	340	0	15687	0
471	0	2	0	0	200	-2520	-3871	0
472	0	0	0	98	-490	-2622	4820	45220
473	0	0	0	0	100	0	11872	0
474	0	-2	0	0	200	0	6041	-77380
475	0	-2	0	104	-140	1098	-11928	0
476	0	0	0	-106	-440	0	8344	53534
477	1	2	0	-152	-100	0	-6804	0
478	0	-2	0	-32	-220	3570	2660	0
479	0	-2	0	0	240	0	-15001	0
480	0	0	0	-128	35	900	5117	0
481	0	0	0	-4	555	0	-6041	29784
482	0	0	0	0	10	0	6027	-109060
483	0	0	0	-56	-925	-3190	5838	0
484	0	4	0	0	-205	-1020	3094	-8710
485	0	-2	0	0	-20	0	15904	-89600
486	0	0	0	-106	-810	-2268	4746	-69496
487	0	0	0	40	-170	3498	22470	0
488	0	-2	0	0	95	0	8589	0
489	0	-2	0	0	600	0	4431	-34720
490	0	-2	0	0	-800	-6300	-20875	-103588
491	0	0	0	88	15	0	5852	0
492	0	0	0	-70	-275	0	13160	120640
493	0	-4	0	0	80	-1830	-11109	0
494	0	1	0	0	650	0	-3885	113960
495	1	4	0	56	390	0	-553	0
496	0	0	0	-63	-44	225	-3900	3234
497	0	0	0	112	-26	-2700	-8120	-98800
498	0	0	0	126	300	3410	2905	0
499	0	0	0	0	-445	-630	-12586	0
500	0	0	0	-106	-199	0	-5887	49504

n	P <sub>1</sub> (n)	P <sub>2</sub> (n)	P <sub>3</sub> (n)	P <sub>4</sub> (n)	P <sub>5</sub> (n)	P <sub>6</sub> (n)	P <sub>7</sub> (n)	P <sub>8</sub> (n)
551	-1	0	0	56	-455	-2548	-10348	0
552	0	0	0	62	-920	2209	16548	4970
553	0	2	0	-76	-80	4410	2667	0
554	0	-4	0	160	200	0	-19348	-24820
555	0	-2	0	-16	550	3658	-18305	0
556	0	-2	0	0	-160	-858	-5789	34706
557	0	0	0	-68	790	0	-27720	0
558	0	-4	0	0	325	0	12229	110000
559	0	2	0	0	605	-3990	-2674	0
560	0	0	0	-34	-520	0	29596	-68921
561	0	-2	-67	80	655	4212	14056	-137104
562	0	0	0	-98	450	3300	-5698	-147560
563	0	0	0	-8	140	0	-2408	0
564	0	0	0	0	-210	1540	2548	-134890
565	0	-2	0	116	290	0	-11879	0
566	0	2	0	-32	-630	0	14679	64

n	P <sub>1</sub> (n)	P <sub>2</sub> (n)	P <sub>3</sub> (n)	P <sub>4</sub> (n)	P <sub>5</sub> (n)	P <sub>6</sub> (n)	P <sub>7</sub> (n)	P <sub>8</sub> (n)
601	0	2	0	116	-200	4200	-9457	0
602	0	0	0	110	-170	0	-28350	-160320
603	0	-2	0	0	210	0	-5509	0
604	0	0	0	0	450	4770	-14665	6270
605	0	0	0	-76	80	1242	-3234	0
606	0	0	0	26	595	1430	12103	0
607	0	0	0	-112	260	0	9758	0
608	0	0	0	0	570	0	2646	-148750
609	0	-2	0	0	0	545	4730	38486
610	1	2	0	-32	-160	-1518	-6104	-59092
611	0	-2	0	16	535	0	24416	0
612	0	0	0	-118	40	0	7434	0
613	0	0	0	64	-65	0	5152	0
614	0	2	0	0	-525	0	14462	-74460
615	0	2	0	8	-190	0	-637	0
616	0	2	0	50	10	7560	3066	190893
617	0	0	0	92	395	-7420	-158240	0
618	0	2	0	-82	50	-4270	-13692	0
619	0	0	0	0	-620	-3510	2072	12621
620	0	0	0	135	540	0	16261	155918
621	0	0	0	116	-350	0	16380	0
622	0	0	0	122	260	0	-1540	-138040
623	0	-2	0	-16	-195	-2070	1372	0
624	0	-2	0	0	30	0	-18221	-90610
625	0	-4	0	44	-242	-396	-910	140800
626	0	0	0	-34	80	0	8659	22484
627	0	0	0	0	465	-1900	-9226	0
628	0	2	0	122	745	0	-9954	0
629	0	2	0	20	-345	0	-1274	0
630	0	-2	-71	-224	6	-142	9674	56056
631	0	-2	0	184	-245	-2178	-6762	0
632	0	0	0	110	315	-18655	-6937	16240
633	0	0	0	0	-100	3060	-6937	58000
634	0	0	0	0	-1020	0	17052	0
635	0	-2	0	-200	-940	0	-10262	0
636	0	0	0	0	775	5808	-1491	0
637	0	0	0	-108	-560	-4902	-23464	0
638	0	0	0	160	715	0	4865	0
639	0	-2	0	0	-725	-3350	-19054	0
640	0	2	0	0	-1050	-3900	-3801	0
641	0	2	0	-124	-690	0	-4803	61800
642	0	0	0	98	575	0	8400	0
643	0	-2	0	0	130	0	17535	0
644	0	0	0	0	-95	0	-17471	-121210
645	0	-2	0	-56	260	-3276	-28794	-85184
646	0	-2	0	86	260	0	18445	-80600
647	0	0	0	0	575	0	-2240	0
648	0	0	0	2	-742	-4030	-9913	0
649	0	2	0	0	85	4410	4081	-167200
650	0	0	0	0	-280	5499	1239	5852

n	P <sub>1</sub> (n)	P <sub>2</sub> (n)	P <sub>3</sub> (n)	P <sub>4</sub> (n)	P <sub>5</sub> (n)	P <sub>6</sub> (n)	P <sub>7</sub> (n)	P <sub>8</sub> (n)
701	0	0	0	-104	-275	0	13573	0
702	0	2	0	0	-560	5291	3038	-29640
703	0	0	-73	-112	-200	5460	889	31570
704	0	0	0	45	-345	450	-32655	-31570
705	0	2	0	116	495	0	609	97336
706	0	-4	0	-124	-490	-330	1764	238000
707	0	0	0	228	380	0	29302	0
708	0	0	0	-80	-600	-3550	24290	0
709	0	0	0	425	1050	0	38514	71680
710	0	2	0	-106	-640	0	-2555	-171808
711	0	0	0	0	-375	2772	18116	0
712	0	0	0	-130	75	0	-12348	-69190
713	0	0	0	0	135	-1350	-6888	0
714	0	0	0	0	1430	4690	-9436	187220
715	1	2	0	40	-270	-4278	-29127	0
716	0	-4	0	-70	475	0	33047	212800
717	0	0	0	64	190	0	11620	0
718	0	0	0	64	350	2070	-14959	0
719	0	2	0	0	-570	0	-14560	0
720	0	2	0	0	370	0	-5530	-163618
721	0	0	0	-76	1120	6900	15820	181424
722	0	0	0	-128	-195	0	1680	0
723	0	-2	0	128	300	0	-11109	0
724	0	-2	0	0	1060	-1950	-10185	0
725	0	0	0	-176	-719	0	40523	0
726	0	-2	0	-10	410	0	-5299	-106216
727	0	-2	0	32	-50	5418	-7014	0
728	0	2	0	0	135	0	14532	0
729	0	-4	0	-100	-220	-5830	-44604	-13120
730	0	-2	0	-68	15	0	6594	200270
731	0	0	0	0	1140	990	-2065	0
732	0	0	0	0	-1075	-8316	16646	-35420
733	0	0	0	0	155	0	-11501	0
734	0	0	0	0	430	0	-3073	-52360
735	0	2	0	0	-860	-9420	-28000	0
736	0	-2	0	-176	-395	0	8736	-103823
737	1	0	0	68	440	0	-2198	-141440
738	0	0	0	160	370	5330	2632	0
739	0	-2	0	0	-485	-59080	-59080	0
740	0	0	0	74	200	0	-27482	-204262
741	0	2	77	116	-225	-5580	-7777	164864
742	0	0	0	-140	-760	-462	-24220	0
743	0	-4	0	-16	285	0	26257	0
744	0	2	0	0	690	4420	40887	0
745	0	2	0	0	230	0	-16016	-291200
746	0	0	0	130	735	0	-7315	-142324
747	0	0	0	80	-420	-1078	25760	0
748	0	0	0	159	-256	-10189	-10189	0
749	0	0	0	0	-655	-5670	13335	0
750	0	-2	0	160	-100	4402	38374	103952

n	P <sub>1</sub> (n)	P <sub>2</sub> (n)	P <sub>3</sub> (n)	P <sub>4</sub> (n)	P <sub>5</sub> (n)	P <sub>6</sub> (n)	P <sub>7</sub> (n)	P <sub>8</sub> (n)
651	-1	-4	0	-64	75	3348	-25200	0
652	0	-2	0	-64	360	3618	101920	0
653	0	0	0	-124	640	0	-15967	0
654	0	0	0	-70	700	7434	-122360	0
655	0	0	0	32	-50	-4758	18081	0
656	0	-2	0	-80	-545	0	7266	0
657	0	0	0	-52	45	0	24843	0
658	0	0	0	0	215	2130	27076	-110500
659	0	0	0	0	210	5130	17437	0
660	0	-1	0	0	60	0	5264	112000
661	0	2	0	-76	-300	-3174	-1820	-157696
662	0	0	0	0	-420	0	9842	174440
663	0	4	0	0	-510	0	-7539	0
664	0	-4	0	0	740	4290	3234	75530
665	0	0	0	-32	900	0	-16002	121088
666	0	2	73	64	320	-1080	1869	171236
667	0	0	0	-112	-180	-5100	1440	0
668	0	2	0	-128	-500	0	-3934	0
669	0	0	0	0	225	730	455	0
670	0	0	0	122	1030	0	-9751	-150568
671	0	-2	0	104	-390	0	-11767	0
672	-1	0	0	-20	-465	-1022	10500	166430
673	0	0	0	184	560	3450	25088	0
674	0	2	0	0	-730	0	-35007	-98260
675	0	2	0	56	-80	7700	14784	0
676	0	0	0	26	485	-4092	-19117	-12166
677	0	-2	0	0	405	0	3738	24320
678	0	0	0	-44	-470	-5390	-11256	0
679	0	0	0	-40	165	0	5880	0
680	0	-2	0	0	385	0	41134	269500
681	0	0	0	-224	-175	-2002	-18494	-190400
682	0	0	0	50	390	-5358	-924	0
683	0	0	0	128	-20	0	-7903	0
684	0	2	0	0	-565	3500	60590	0
685	0	2	0	-4	-320	-2982	-16609	0
686	0	2	0	0	-800	1188	-16660	0
687	0	0	0	128	-415	1898	-20062	0
688	0	2	0	98	-600	-5310	-13727	0
689	0	2	0	0	160	0	-23716	0
690	0	3	0	0	-1090	0	10395	-36176
691	0	2	0	0	-150	0	3584	0
692	0	0	0	122	70	0	-3640	-271040
693	0	2	0	44	530	0	2632	0
694	0	-2	0	0	75	-2190	-27258	-131560
695	0	0	0	112	540	0	12544	0
696	0	-2	0	-34	180	-1980	-9086	-183274
697	0	0	0	0	90	-4422	26040	96320
698	0	-2	0	0	-990	0	-35	0
699	0	2	0	0	-30	4810	-2548	0
700	0	0	0	86	860	4002	14169	0

n	P <sub>1</sub> (n)	P <sub>2</sub> (n)	P <sub>3</sub> (n)	P <sub>4</sub> (n)	P <sub>5</sub> (n)	P <sub>6</sub> (n)	P <sub>7</sub> (n)	P <sub>8</sub> (n)
751	0	-2	0	-40	-115	6612	15428	0
752	0	-1	0	50	-520	0	-12040	20020
753	0	0	0	-124	-865	0	-4998	0
754	0	-2	0	-130	-170	0	-7854	266520
755	0	0	0	0	595	0	2247	0
756	0	0	0	28	795	1331	14910	6806
757	0	0	0	0	-280	2100	-1435	0
758	0	0	0	86	-580	-3150	1613	175000
759	0	2	0	0	-560	-5590	-5775	0
760	0	0	0	-94	-800	6018	44198	47558
761	0	-2	0	-4	75	0	-6335	-186496
762	0	0	0	-170	2002	0	-10710	-123220
763	0	2	0	112	-410	0	-14658	0
764	0	0	0	0	-145	0	203870	0
765	0	2	0	44	170	5976	283	

$p_9(n)$	$n$	$p_9(n)$	$p_{10}(n)$	$p_{11}(n)$	$p_{12}(n)$	$p_{13}(n)$
0	1	9	10	11	12	13
-29640	2	27	35	44	54	65
0	3	12	30	55	88	130
-3157	4	90	105	110	99	65
9733	5	135	238	374	540	728
238000	6	94	0	143	418	871
71680	7	59	260	462	648	715
-171808	8	189	165	55	594	1540
0	9	140	495	836	845	78
0	10	657	1054	1287	1056	6513
0	11	162	770	2069	4104	2730
-69190	12	135	595	902	209	8605
187220	13	171	0	1210	4104	4355
0	14	910	715	275	594	2483
0	15	702	2162	3795	4256	13299
212800	16	495	455	1507	6480	2275
0	17	837	0	2431	4752	11440
0	18	673	2380	3575	298	10010
-163618	19	900	1820	385	5016	19734
0	20	243	2401	8690	17226	41834
181424	21	1053	680	1661	12109	11375
0	22	257	1495	1143	5346	12870
0	23	1566	3080	1265	1296	2730
0	24	2700	1615	4290	9063	14911
0	25	1764	6958	12716	7128	33201
106216	26	81	1925	2299	19494	25155
13120	27	1188	0	11440	29160	18963
200200	28	1377	0	3905	10032	44172
0	29	270	5100	8635	7665	31540
0	30	2043	1442	10472	28925	2520
35420	31	3321	8330	6105	8712	3661
52360	32	756	5355	20548	22572	15282
0	33	3726	1330	1540	21812	32652
0	34	3015	0	8690	49248	104975
0	35	4563	16790	24904	46872	46799
0	36	3348	0	29634	67562	38285
0	37	504	8190	25003	2508	34614
0	38	351	8265	8470	47520	8424
0	39	1350	0	23320	76912	26730
0	40	468	1918	18183	25191	21087
54864	41	891	0	4741	67716	38664
0	42	7074	8415	2420	32076	53424
0	43	1611	10230	19195	7128	9018
0	44	2700	7140	2200	29754	37800
11200	45	2423	9362	18271	36784	44577
2324	46	1512	7315	5643	51072	48573
0	47	3267	10010	52382	45144	7425
0	48	5265	0	14520	122398	34101
0	49	1800	14260	990	53450	27000
3952	50	3510	14641	12287	11285	31266

$n$	$p_9(n)$	$p_{10}(n)$	$p_{11}(n)$	$p_{12}(n)$	$p_{13}(n)$
101	12177	58280	98659	52272	1134393
102	6318	14245	96063	930204	1528670
103	23751	14420	64350	406296	1548820
104	13230	0	62480	451440	1172730
105	37206	0	83919	339196	2553668
106	7794	64515	235972	562464	856037
107	12393	54180	12925	653400	167570
108	19619	5525	55440	374528	197080
109	18490	39270	117590	810744	1361360
110	20223	176295	115588	248292	2138318
111	21303	0	365090	779360	3598855
112	3630	0	355908	20691	1733160
113	12933	57970	126445	744876	965575
114	11980	16835	54450	272746	1809145
115	36730	100558	101114	570240	1399604
116	18171	0	211816	153846	1575743
117	7992	18550	441837	69984	1466920
118	6373	84035	34045	622944	663260
119	29700	64380	209330	1154736	832130
120	2565	146879	657074	657074	1874444
121	135	0	198308	694980	3810495
122	14472	33320	8789	489402	768170
123	43888	90440	49335	349448	1753050
124	19800	61845	93555	812592	2158065
125	24516	0	587356	1341900	6194188
126	10044	64860	236335	2216160	3649693
127	18963	0	237094	384912	74813
128	44172	0	70125	1323540	3719170
129	31540	60720	62480	26224	980415
130	2520	193438	386441	5806	295542
131	3661	0	365797	943272	4148872
132	15282	0	18413	1052676	567775
133	32652	10660	141680	357048	4948060
134	11475	104975	63525	967518	901095
135	46799	250852	71423	518320	2073435
136	22995	38285	773806	441408	906438
137	34614	19180	420288	112860	1996995
138	8424	175780	222726	626440	6264440
139	26730	0	3520	421344	596050
140	21087	104638	515262	196614	3592407
141	38664	45510	34012	1552276	2235532
142	53424	95095	303688	541728	1450670
143	9018	108460	253660	151588	1108380
144	37800	124355	10285	1067021	1417175
145	44577	114002	463149	1468776	7966261
146	48573	0	15566	1672170	6839651
147	7425	243530	747077	414072	1505855
148	34101	183260	192665	2216160	493600
149	27000	0	160930	1715472	2732730
150	31266	130321	493680	1064800	5673057

$n$	$p_9(n)$	$p_{10}(n)$	$p_{11}(n)$	$p_{12}(n)$	$p_{13}(n)$
51	2970	5320	39578	27256	1261
52	6741	21620	53823	57024	167310
53	8910	10150	21615	122384	66950
54	1620	15015	9460	99002	80080
55	7227	0	29580	3576	319176
56	7506	2925	43681	22966	277680
57	648	24990	43701	121616	22475
58	13923	14105	34650	41392	477620
59	9045	0	9185	52712	239005
60	7854	58765	105314	130549	345371
61	5385	0	49306	206712	240422
62	2079	0	108515	180036	363350
63	815	2470	9515	336512	965575
64	6930	12155	1760	145200	281985
65	1107	20398	17664	100980	370369
66	1495	26455	17842	73568	667929
67	12231	17710	142450	221815	176605
68	5049	25025	27885	317142	467740
69	8100	24010	27170	44265	47700
70	15075	28083	82566	15552	871630
71	11205	15950	38984	225720	15370
72	4104	0	42658	564135	32076
73	10719	24600	10890	173990	173
74	18900	0	49335	381875	174
75	7371	64078	19580	868595	175
76	5310	0	125345	668096	176
77	7587	9890	16257	229824	177
78	756	35815	30305	120878	178
79	6390	37310	47630	233928	179
80	11799	38398	154308	993239	180
81	16632	19530	154066	111340	181
82	4041	0	92037	349920	182
83	13500	0	36410	491832	183
84	1020	3795	26125	196569	184
85	9117	50370	178277	82764	185
86	297	69580	182545	707454	186
87	23274	26240	159610	18392	187
88	12078	44485	20460	92016	188
89	9180	75670	70400	493668	189
90	4212	0	227370	559450	190
91	16236	45240	67155	1932566	191
92	5535	12925	37455	16092	192
93	9855	0	173250	320760	193
94	29700	0	59785	361152	194
95	3780	90482	55341	724032	195
96	2862	61880	62733	7106	196
97	11034	0	281215	270864	197
98	23463	32045	1430	530442	198
99	13500	59280	94490	56168	199
100	20322	58562	306438	261744	200

$n$	$p_9(n)$	$p_{10}(n)$	$p_{11}(n)$	$p_{12}(n)$	$p_{13}(n)$
151	35442	0	342925	135432	4277977
152	17874	0	252735	1875852	271000
153	3996	0	201465	152592	5758480
154	53820	93620	11660	327072	3756675
155	15220	24242	545842	370728	1070849
156	32643	142065	148357	584858	6529535
157	19305	148580	344564	470448	320580
158	6210	83265	334510	2482866	117000
159	18090	102340	51260	320760	1338610
160	22815	0	92191	1468368	105417
161	20817	141610	385242	496584	4163861
162	39076	660649	68324	64920	44920
163	81819	125310	201630	1198824	7494955
164	43470	133285	66550	114048	3068780
165	8076	107282	764763	377948	8065070
166	9828	51765	211244	29502	1024842
167	2376	72030	169730	1177848	1342575
168	74034	0	615890	639122	4385420
169	47700	0	326975	355752	4087760
170	65826	276962	948552	2298240	5637021
171	45900	201005	2276560	2294292	2294292
172	29232	129675	734932	2659392	238810
173	17604	175070	2904660	8685950	8685950
174	13500	0	768735	3991570	3138850
175	37746	351118	50677	1715472	15358694
176	39636	50470	164329	142918	14203722
177	6156	164220	390839	2531088	1407835
178	37269	80155	19870	627264	513370
179	3780	101010	450450	3592220	3592220
180	86184	290878	89188	1772023	13149864
181	16971	0	4334	1566588	3990415
182	29511	0	1661561	3648348	996840
183	9477	0	201190	1089232	4581200
184	33165	34545	465850	1705374	12069460
185	118719	435400	1179706	1715472	2066740
186	57348	168245	955876	3505	

n	p <sub>9</sub> (n)	p <sub>10</sub> (n)	p <sub>11</sub> (n)	p <sub>12</sub> (n)	p <sub>13</sub> (n)
201	- 4455	77910	170643	- 1779008	- 15059772
202	- 46827	0	- 525052	- 1360314	- 7110155
203	20163	146740	401390	- 160920	7957950
204	100440	0	- 242385	2640506	4050475
205	- 135162	- 806400	- 211728	3905704	3942777
206	- 81000	- 255645	106469	674784	- 16062787
207	- 40392	0	1835482	3656664	- 1392820
208	51687	208740	721655	1779888	2009280
209	16065	0	- 587290	- 4980204	- 4460173
210	- 61074	- 277035	- 1479521	- 237994	9951630
211	- 86994	0	- 182545	128304	9387521
212	86481	142975	- 1437029	- 124146	- 124146
213	13446	108290	169400	3956944	18298800
214	91440	0	- 444675	2708640	- 1414140
215	46683	0	- 938234	- 3882384	- 5542466
216	55512	- 252105	- 384953	- 64958	- 8770177
217	41292	283410	1540176	384912	3202030
218	999	- 218075	- 125730	- 3430944	- 4307160
219	- 32400	213710	325490	- 6501352	- 10150140
220	- 7452	279841	1636316	897237	6917222
221	28728	280280	- 720C49	- 4607604	7445542
222	47790	203980	867328	1406716	- 4342975
223	- 42471	0	- 1129645	- 2359368	- 8225100
224	5400	- 292725	- 171380	3776706	- 1181050
225	- 100008	120238	1520671	9302040	5947441
226	- 88659	0	1134177	- 892320	- 37319529
227	46710	116090	- 300883	1986336	3670680
228	- 26460	- 285775	- 307560	- 3180694	- 16526760
229	- 64390	- 161070	- 377575	2437776	11143860
230	10530	0	1480500	6685470	33197736
231	52434	- 232870	- 1684958	- 4351216	- 14026467
232	- 32211	- 313225	- 641421	- 757888	- 9316555
233	- 2349	- 326830	- 147620	7079940	26332020
234	- 60275	67130	664400	- 1919456	- 1919456
235	36306	235060	- 283778	- 1450536	- 3040219
236	- 20034	- 121975	- 1642905	- 6534000	- 1215032
237	- 3159	0	- 852742	- 174724	4359515
238	4527	338675	- 374660	- 1929906	- 2352475
239	- 18630	- 280830	- 548405	3221856	- 2306655
240	123390	656642	1246399	124564	- 3564160
241	98307	221650	194656	- 4333824	- 34159840
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247	- 4887	- 56980	358831	- 2886840	- 10991110
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304	- 93870	733040	- 959860	627264	20520045
305	- 207414	- 1027922	- 4066864	541728	45084065
306	- 2376	452235	- 475695	- 4195862	- 42031262
307	1917	0	- 2374460	- 11162448	- 24013385
308	- 6939	- 559845	- 206070	125514	8156480
309	45225	0	216195	6457340	18807360
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311	- 77004	- 356730	1866238	- 2618352	- 6433245
312	- 73386	0	1174261	- 9068819	- 15391090
313	52250	585900	1460855	5417280	40554150
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317	20493	384370	2172324	18171648	8532225
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323	- 104328	605930	1391995	2481192	- 35236175
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326	- 49896	- 501725	1006577	5291298	- 10082696
327	40176	448630	- 271337	5452920	50823500
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340	- 95004	0	2704955	8985612	- 39393356
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346	121950	717145	2558661	4704480	1587287
347	- 35694	0	654951	- 8009496	- 555370
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254	39960	0	22825	- 434006	- 5180630
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256	- 22986	- 640780	- 861861	3430944	23368540
257	- 97416	- 217140	1813196	- 1471824	5750290
258	- 72360	0	699270	6499840	4015180
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260	102787	720291	430474	- 6741846	- 22150167
261	- 19116	29260	- 2662803	- 7721956	29509065
262	207153	0	- 2485670	- 220704	1904305
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264	- 10530	0	1196800	1048473	- 646190
265	115938	571438	1212992	759132	- 39185279
266	59103	0	16401	- 7200468	- 5648273
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268	26442	- 363255	21010	- 524016	- 2954520
269	62100	730593	1187485	- 494420	- 1083355
270	204120	0	277992	682066	20067814
271	- 84942	- 309540	- 224719	6713400	36405924
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273	50760	383980	159645	5394716	20678130
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357	11070	360620	4728570	- 1216880	- 12140115
358	188100	0	- 1358832	- 977020	- 977020
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618	-1024380	-1922340	-9055585	41705798	152873760
619	-884700	-1090210	-10066925	-8097408	58132165
620	578340	2535358	12724559	40131828	337527996
621	-85968	2126670	331364	-16008840	72403604
622	-543222	0	-16912875	-43879968	-15609890
623	872345	1579640	3131910	7187400	160820400
624	97200	0	-4259585	27181154	165729980
625	884313	0	-15537478	14684076	174077449
626	-296649	-1147220	-1054350	-43442784	-311842050
627	-329940	-2220225	-4793579	72462600	-115802245
628	-467766	1503425	5682820	59762448	105900350
629	-482220	0	920590	-5714820	-296847980
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632	-359303	-540995	-8414450	-119672640	-185514160
633	226125	0	-3473250	49231600	104502060
634	149940	0	-3293840	-5131874	103101570
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637	745137	996710	16807593	1469752	-264203940
638	285741	0	403600	-108262386	128301155
639	727920	-236670	-651035	-32392325	739
640	-358002	-8467200	-18384630	-36683328	316644705
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644	-300700	0	-8617895	9020426	72183540
645	126058	-1551598	-22814913	-46526564	-84763081
646	429345	1915865	3895342	46588608	341793270
647	268245	3048020	6082054	1416096	41483845
648	320112	0	-7197075	-36644014	22385220
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703	-441468	0	1881165	-303472	243100
704	545130	0	-6781610	-5065182	-401761230
705	9072	-1364398	13473042	40223304	-49168756
706	261189	-1716715	515185	-11966922	589299126
707	-72891	-3573570	-10836243	-83822904	-359716305
708	-49410	1662595	-314325	-41759036	189280780
709	117045	903210	1379345	78480000	162557095
710	-129735	0	8160200	5383422	-164188999
711	582120	1947400	-12960695	-610864	89980553
712	-444600	0	3611982	-2096688	-144590355
713	699192	0	-6821235	9341244	-821921100
714	95850	-2864875	-10930920	-119711482	12815660
715	-705870	8001600	24776378	60003376	579045038
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717	-246726	-2626360	-13081772	-81857952	-152807070
718	1278648	-3934840	5983350	58862272	259773800
719	774900	-498680	6154005	48537600	275873760
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721	886644	0	7364159	-1494768	-121312165
722	155007	-3112105	23386209	-57619134	-43429685
723	460161	-2390570	-10750960	-49842232	113835280
724	-79200	1386635	1686860	-35754048	-60127795
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732	-199584	0	-31321609	-57897180	-143206635
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735	874800	8562900	12566532	47123648	210015676
736	-38922	-138415	-28659565	-33858000	-243761882
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746	-179334	-294871	-17816711	7775542	76797294
747	412776	3346420	-4039178	92635488	541601060
748	643005	0	-49635408	-17632130	-17632130
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655	232389	3484558	6866354	41171328	283242063
656	-305910	1858325	-10896842	-4717548	-31799586
657	142452	0	-24959297	50936688	285327900
658	331002	-2412215	-6718195	78016224	-606740680
659	-27135	1151940	1383030	11617352	18963310
660	-460785	-3232075	5587186	-64603490	-416388980
661	-423108	-469030	-6193506	-37194552	-216274149
662	-475524	2630355	-7933886	-4074264	-13629525
663	-426060	0	-5279230	21451760	285694605
664	-137610	0	9193910	55291248	85315620
665	-399303	3055918	-14199647	-16471080	-51527993
666	-118692	0	-12967658	-51497600	-144894698
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668	-751977	1266160	-6160660	63714816	-155537980
669	737100	-3519530	1216510	11373008	26864435
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671	126644	0	-1250370	-45685728	-232722750
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679	411750	0	4969690	7361640	84647420
680	235899	0	-2878271	131402898	190211099
681	-1071036	-5145560	-3673417	769824	-133290895
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685	424791	0	21870486	38168328	718050619
686	264411	-2724695	-23669360	-33076242	379223637
687	76590	-201880	10156025	-97219440	-86651110
688	274437	0	-1291290	-14963454	373677520
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690	-152228	-1994398	-13546544	-15800874	-109906611
691	344025	501410	-6727523	-80225640	70851508
692	-655722	0	12027204	77286430	77286430
693	710255	2141790	9249240	56481832	-213461560
694	433800	-2157000	5595975	-113402900	-113402900
695	-684207	-372722	-7312602	-51148152	-815691279
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697	-382158	-2610300	-31004314	-29752576	-3749995
698	610200	5140765	10464465	181716480	150084480
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755	6183	1509662	15786916	263563160	263563160
756	-894564	-6770330	-19732559	17673876	514151378
757	505494	4140010	13449480	-7313328	145016495
758	396277	0	16626390	-5133348	23883580
759	173655	-3356990	-14434750	-38572128	-203805095
760	-467208	-1519868	7829316	19460331	-11158432
761	45657	-715680	21666568	25147044	165901645
762	-33264	0	-21816465	7260242	-430889225
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3	182	245	320	403	0	16023735	103	0	1608165	8602880	503	319538142
4	105	105	260	404	0	160603560	104	0	15036840	9638150	504	0
5	924	1107	1248	405	54536978	452304160	105	98282	0	27615760	505	405276144
6	1547	2485	3712	406	0	183073815	106	4466539	1866045	47931392	506	-110473993
7	506	195	1664	407	589572984	961056890	107	5499494	14079420	41403648	507	-219491286
8	3003	4860	6890	408	55909021	1125755750	108	6279273	25952060	71866500	508	0
9	0	2420	7280	409	0	352440270	109	0	782605	7754240	509	0
10	1729	3990	5566	410	83612452	635650470	110	2425787	13162500	33155564	510	0
11	6372	8190	4160	411	0	797549250	111	1519518	3784270	61717760	511	1165970234
12	9177	19695	33670	412	176110011	58738925	112	1305564	23607940	15276417	512	670484437
13	13090	13755	4640	413	593731658	1399611960	113	0	21802365	425660	513	49661612
14	15625	38475	74240	414	265990625	191137540	114	0	13822370	794560	514	-1106597500
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16	17017	9750	14035	416	358668233	783949320	116	4682055	5443200	3649100	516	340871335
17	10556	34020	54288	417	291661020	890818460	117	0	36745585	28487744	517	29247500
18	30107	43015	27040	418	406457765	47226390	118	9235303	453350	94656000	518	468820079
19	0	46605	142720	419	0	126344225	119	0	32495760	3656580	519	0
20	7084	13860	1503	420	814266453	437009050	120	2622893	257900	81574418	520	761144643
21	89206	127385	110240	421	137559526	1719657045	121	9712066	10418370	32075680	521	0
22	11571	186485	289536	422	0	1534705380	122	7432439	35281575	12886016	522	-692475861
23	69160	165240	222720	423	0	2102816345	123	1407406	29239370	14114880	523	-1263776514
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26	0	92340	123904	426	93021929	580935915	126	20878627	36269395	123149312	526	0
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32	0	271215	755943	432	0	2440543855	132	16235492	21403445	194000924	532	0
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34	0	20475	176560	434	0	1004920200	134	0	49460220	68282240	534	0
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37	0	209340	250432	437	0	937900215	137	874874	10128510	37107200	537	791228438
38	76153	284130	1688760	438	367737524	830874585	138	5307757	3267385	38363520	538	0
39	181750	337645	324450	439	164937500	-1547523525	139	14437500	9231495	74551360	539	1393643750
40	168245	294225	988858	440	0	395822700	140	26439842	4416930	10489648	540	-201043920
41	397320	269325	1025440	441	852164714	-2567823845	141	12796784	84066950	17515680	541	52156104
42	639066	1707970	2233008	442	0	1202662515	142	0	23607940	45167616	542	0
43	399126	70305	1965320	443	415496340	544649130	143	2048606	24423640	172372520	543	0
44	0	1297620	3857360	444	0	264582415	144	0	20576010	392080	544	0
45	67158	574210	1118240	445	346199854	734009220	145	16777684	22731630	55204864	545	-706451368
46	92092	492765	965120	446	0	-2828489625	146	13346151	33827220	19162800	546	1436046194
47	530348	251370	2204800	447	0	555435895	147	0	55611745	14226368	547	-590947280
48	0	847245	2004730	448	888297982	507956850	148	16316223	3761930	225157740	548	0
49	0	1102725	976720	449	0	1045570680	149	0	25008750	51508320	549	0
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54	0	153730	1076480	454	0	246513115	154	0	19254415	56376320	554	0
55	0	1239420	451456	455	0	960510717	155	18404458	21898880	93302976	555	0
56	56446	800370	718840	456	73831835	1511489950	156	5817735	10246400	171786240	556	411778913
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58	1248884	472080	2478080	458	218259441	613856380	158	0	62460720	75279360	558	-522962517
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60	651651	2707950	1791403	460	527070621	1912811340	160	0	55884579	256942738	560	-1417691519
61	1262884	761490	609320	461	0	603183730	161	26266766	49246300	207319840	561	0
62	1272747	591268	491368	462	212944028	923557075	162	1616615	109977255	10281232	562	-1289053948
63	212742	712255	844480	463	174715450	132335955	163	4643562	58941300	90721280	563	-978201224
64	1203125	1869450	12957490	464	470421875	-156722330	164	24711875	17829630	235567240	564	-180796875
65	566370	1047150	10023792	465	818643462	500479525	165	8626058	48743275	57907200	565	0
66	0	1169350	1459640	466	0	1000591305	166	14084161	26869050	23790280	566	20195776
67	1525510	728805	1892800	467	7567714	168759620	167	23977954	47617605	144318720	567	2270076172
68	893893	500175	5073260	468	471810717	172239340	168	24137569	63874760	191692800	568	869128183
69	0	5564055	10816320	469	0	546479935	169	0	60856560	92868400	569	0
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72	467544	935990	6593384	472	0	602677530	172	3041898	6648915	9900200	572	-802433945
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75	2244242	151789	8932928	475	130264134	424509120	175	49349482	85312500	1881984	575	1053903032
76	245973	2775045	9584640	476	0	990662400	176	6623540	-119541825	-31269888	576	0
77	3796114	8922360	9821760	477	0	1315914955	177	26415480	131014845	31964600	577	0
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79	0	4736745	2254760	479	0	144329470	179	0	39905460	241901760	579	0
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85	782782	4813590	16841344	485	492394994	965302920	185	0	25446960	189459160	585	-1104222042
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258	0	-192726765	-1347578960	658	-2579320178
259	0	-138847800	153936640	659	0
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262	0	51395190	-2325519744	662	1604314635
263	-53494716	-19180980	-65112320	663	-270993618
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266	29343886	346177800	-78146880	666	2022637708
267	63990822	93074815	641513600	667	95601586
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269	0	104821740	1304091360	669	0
270	0	-414098090	-439129600	670	333826416
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273	-250543524	-316337450	-160416400	673	0
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276	108434235	-59564715	-823173120	676	0
277	87827740	126289705	-43416884	677	0
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283	0	262051335	-633601280	683	48585614
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291	-126725676	-61253535	266614400	691	2376121748
292	-131134549	13485615	2545389404	692	-764508017
293	-5954926	-107341605	1428535680	693	0
294	0	49052485	1994903040	694	0
295	-37049936	-511757400	-1783265536	695	0
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n	P <sub>14</sub> (n)	P <sub>15</sub> (n)	P <sub>16</sub> (n)	n	P <sub>14</sub> (n)
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353	220800555	-1207600	-461570640	398	-258777519
354	0	79454865	897079040	399	0
355	0	315375360	414639680	400	0
356	0	373773015	1121402880	396	325382695
357	-15820694	404649425	272005600	397	-4712058
358	9662576	106058940	-1344170880	398	-258777519
359	0	228337380	984663680	399	0
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361	-25955296	108348240	-6273280	396	325382695
362	-57019508	-1034874270	-3738648576	397	-4712058
363	-264986008	33644275	163352760	398	-258777519
364	24410625	375707475	259508520	399	0
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