Let $E/\mathbb{Q}$ be an elliptic curve with split multiplicative reduction at p, $q_{E,p}$ the Tate p-adic period see **??**, and $\lambda(a,b)$ the modular symbols of E with the $+$ sign, see **??**. Also, let $\tilde{q}_{E,p} = q_{E,p}/p^{\mathrm{ord}_p(q_{E,p})}$

This Appendix contains a table of 100 elliptic curves that, apparently, do not satisfy conjecture **??**

$$\prod_{0<a<p} a^{D\lambda(a,p)\mathrm{ord}_p(q_{E,p})} \equiv q_{\tilde{E},p}^{D\lambda(0,1)} \in (\mathbb{Z}/p\mathbb{Z})^* / \langle -1 \rangle \tag{1}$$

Remark 0.1. We want to note that this is the equation that Mazur and Tate tested, minus the factor D, in their original article [**?**] pag. 746 equation (*). However, there is a missing factor of $\mathrm{ord}_p(q_{E,q})$ in [**?**] pag. 746 equation (*), as pointed out by de Shalit in [**?**, pag. 254].

For the full list of elliptic curves that, apparently, do not satisfy conjecture **??** see [**?**], which also contains the code used and an explanation of how it works.

- Label: Every elliptic curve has a unique label indexed in the lmfdb.org web page. The first sequence of numbers in each label is the conductor of the elliptic curve i.e. an elliptic curve with label $1890.k3$ has conductor 1890. The terms after the point do not enter into effect for our purposes.

- Prime: This is the prime for which E has split multiplicative reduction and the layer of the Mazur-Tate element i.e. $M = p$.

- Left side: It is the left side of the equation (**??**), i.e.

$$\prod_{0<a<p} a^{\lambda(a,p)\mathrm{ord}_p(q_{E,p})D}$$

- Right side: It is the right side of the equation (**??**), i.e.

$$\tilde{q}_{E,p}^{\lambda(0,1)D}$$

- Rank: Is the $\mathbb{Z}$-rank of the $E(\mathbb{Q})$.

- $q_{E,p}$: Is the Tate p-adic period p-expansion. Because we only need the order and the leading coefficient, we only will express one factor of the expansion.

- mod deg: Given a minimal modular parametrization $\phi : X_0(N) \to E(\mathbb{C})$. The modular degree is $\deg(\phi)$.

Label	Prime	Left side	Right side	rank	$q_{E,p}$	mod deg
11.a3	11	1	9	0	$8 \cdot 11^1 + O(11^2)$	5
14.a5	7	1	3	0	$3 \cdot 7^1 + O(7^2)$	3

14.a4	7	1	2	0	$2 \cdot 7^2 + O(7^3)$	6
15.a4	5	1	3	0	$3 \cdot 5^1 + O(5^2)$	4
15.a7	5	1	2	0	$2 \cdot 5^1 + O(5^2)$	4
19.a3	19	1	7	0	$8 \cdot 19^1 + O(19^2)$	3
26.a3	13	12	4	0	$11 \cdot 13^1 + O(13^2)$	6
35.a2	7	1	4	0	$2 \cdot 7^1 + O(7^2)$	6
37.b3	37	1	26	0	$10 \cdot 37^1 + O(37^2)$	6
38.a2	19	1	11	0	$7 \cdot 19^1 + O(19^2)$	18
77.b1	7	1	4	0	$3 \cdot 7^2 + O(7^3)$	60
126.b2	7	2	1	0	$6 \cdot 7^1 + O(7^2)$	72
126.b1	7	4	1	0	$1 \cdot 7^2 + O(7^3)$	144
130.b4	5	1	3	0	$3 \cdot 5^1 + O(5^2)$	8
130.b4	13	9	6	0	$6 \cdot 13^1 + O(13^2)$	8
158.b3	79	62	4	0	$9 \cdot 79^1 + O(79^2)$	120
182.d3	7	4	1	0	$1 \cdot 7^1 + O(7^2)$	12
189.c1	7	1	4	0	$5 \cdot 7^1 + O(7^2)$	36
195.a6	5	1	3	0	$3 \cdot 5^1 + O(5^2)$	24
195.a6	13	3	2	0	$2 \cdot 13^1 + O(13^2)$	24
195.a7	5	1	2	0	$2 \cdot 5^1 + O(5^2)$	96
195.a7	13	3	11	0	$11 \cdot 13^1 + O(13^2)$	96
234.e1	13	4	12	0	$8 \cdot 13^1 + O(13^2)$	180
278.a1	139	80	35	0	$114 \cdot 139^1 + O(139^2)$	816
315.b1	7	2	1	0	$1 \cdot 7^1 + O(7^2)$	180
326.a3	163	53	140	0	$125 \cdot 163^1 + O(163^2)$	612
370.a1	37	1	10	0	$11 \cdot 37^1 + O(37^2)$	324
378.e3	7	4	1	0	$1 \cdot 7^1 + O(7^2)$	36
378.d1	7	1	2	0	$4 \cdot 7^1 + O(7^2)$	108
378.g3	7	4	2	0	$2 \cdot 7^1 + O(7^2)$	216
434.d2	7	1	4	0	$4 \cdot 7^1 + O(7^2)$	48
434.d2	31	1	5	0	$6 \cdot 31^1 + O(31^2)$	48
485.a3	97	85	65	0	$68 \cdot 97^1 + O(97^2)$	420
546.d3	7	2	1	0	$6 \cdot 7^1 + O(7^2)$	216
550.j1	11	9	1	0	$1 \cdot 11^1 + O(11^2)$	1200
651.b3	7	1	2	0	$3 \cdot 7^1 + O(7^2)$	96
651.b3	31	4	20	0	$19 \cdot 31^1 + O(31^2)$	96
693.b3	7	2	1	0	$6 \cdot 7^2 + O(7^3)$	1800
702.a1	13	1	9	0	$6 \cdot 13^2 + O(13^3)$	3240
702.m2	13	4	10	0	$6 \cdot 13^1 + O(13^2)$	216
702.p3	13	3	1	0	$5 \cdot 13^2 + O(13^3)$	1080
798.d6	19	9	6	0	$14 \cdot 19^1 + O(19^2)$	1152
798.d5	19	6	4	0	$6 \cdot 19^2 + O(19^3)$	2304
806.f3	13	3	1	0	$8 \cdot 13^1 + O(13^2)$	1008
819.c1	13	9	1	0	$5 \cdot 13^1 + O(13^2)$	864

903.b3	7	4	1	0	$6 \cdot 7^2 + O(7^3)$	912
910.g6	7	2	4	0	$2 \cdot 7^2 + O(7^3)$	576
910.g4	7	4	2	0	$4 \cdot 7^1 + O(7^2)$	1152
938.d3	7	1	4	0	$4 \cdot 7^1 + O(7^2)$	528
938.d3	67	9	60	0	$31 \cdot 67^1 + O(67^2)$	528
1118.a2	13	12	10	0	$6 \cdot 13^1 + O(13^2)$	156
1118.a2	43	11	23	0	$25 \cdot 43^1 + O(43^2)$	156
1206.f1	67	39	59	0	$22 \cdot 67^1 + O(67^2)$	10368
1342.b3	61	57	12	0	$16 \cdot 61^1 + O(61^2)$	3200
1422.f1	79	4	62	0	$21 \cdot 79^1 + O(79^2)$	3600
1638.f1	7	1	2	0	$2 \cdot 7^1 + O(7^2)$	3240
1638.f1	13	9	12	0	$12 \cdot 13^1 + O(13^2)$	3240
1806.g3	7	2	4	0	$5 \cdot 7^1 + O(7^2)$	720
1890.k3	7	1	4	0	$5 \cdot 7^2 + O(7^3)$	1296
1890.i2	7	2	3	0	$3 \cdot 7^1 + O(7^2)$	1944
1890.r1	7	4	2	0	$3 \cdot 7^2 + O(7^3)$	3888
1890.t2	7	1	5	0	$5 \cdot 7^1 + O(7^2)$	648
1953.f1	7	4	2	0	$5 \cdot 7^1 + O(7^2)$	6912
1953.f1	31	28	18	0	$10 \cdot 31^1 + O(31^2)$	6912
1995.g3	19	6	9	0	$16 \cdot 19^1 + O(19^2)$	360
2145.b5	5	1	3	0	$2 \cdot 5^3 + O(5^4)$	19968
2145.b5	13	1	5	0	$8 \cdot 13^1 + O(13^2)$	19968
2163.d3	7	1	5	0	$5 \cdot 7^1 + O(7^2)$	312
2163.d3	103	81	18	0	$92 \cdot 103^1 + O(103^2)$	312
2379.a2	13	1	3	0	$4 \cdot 13^1 + O(13^2)$	528
2379.a2	61	9	57	0	$22 \cdot 61^1 + O(61^2)$	528
2405.b3	5	1	3	0	$3 \cdot 5^1 + O(5^2)$	608
2405.b3	37	10	14	0	$14 \cdot 37^1 + O(37^2)$	608
2418.b1	13	9	3	0	$9 \cdot 13^1 + O(13^2)$	1800
2457.f3	13	9	1	0	$8 \cdot 13^2 + O(13^3)$	2160
2502.g3	139	120	36	0	$62 \cdot 139^1 + O(139^2)$	19584
2562.f2	7	4	2	0	$3 \cdot 7^1 + O(7^2)$	648
2562.f2	61	9	56	0	$19 \cdot 61^1 + O(61^2)$	648
2590.a2	7	2	1	0	$1 \cdot 7^1 + O(7^2)$	3960
2590.a2	37	7	33	0	$25 \cdot 37^1 + O(37^2)$	3960
2709.b1	7	1	4	0	$5 \cdot 7^2 + O(7^3)$	65664
2709.b1	43	9	11	0	$32 \cdot 43^1 + O(43^2)$	65664
2718.o1	151	97	84	0	$125 \cdot 151^1 + O(151^2)$	15552
2730.m4	7	2	1	0	$1 \cdot 7^1 + O(7^2)$	5184
2730.m5	7	4	1	0	$1 \cdot 7^2 + O(7^3)$	10368
2771.a1	163	53	133	0	$40 \cdot 163^1 + O(163^2)$	4266
3094.e2	7	4	2	0	$3 \cdot 7^1 + O(7^2)$	1080
3145.b4	5	1	3	0	$2 \cdot 5^3 + O(5^4)$	7872

3145.b4	37	10	23	0	$24 \cdot 37^1 + O(37^2)$	7872
3206.e3	7	1	2	0	$2 \cdot 7^1 + O(7^2)$	1320
3206.e3	229	203	75	0	$65 \cdot 229^1 + O(229^2)$	1320
3294.b1	61	20	25	0	$42 \cdot 61^1 + O(61^2)$	6048
3294.k3	61	25	20	0	$58 \cdot 61^1 + O(61^2)$	2016
3458.c2	13	3	9	0	$9 \cdot 13^1 + O(13^2)$	3888
3458.c2	19	7	1	0	$18 \cdot 19^2 + O(19^3)$	3888
3474.h1	193	130	112	0	$72 \cdot 193^1 + O(193^2)$	25920
3510.o2	13	9	1	0	$5 \cdot 13^1 + O(13^2)$	1296
3605.c3	7	1	4	0	$2 \cdot 7^1 + O(7^2)$	1560
3605.c3	103	9	2	0	$65 \cdot 103^1 + O(103^2)$	1560
3870.h1	43	38	35	0	$22 \cdot 43^1 + O(43^2)$	15552
3906.a1	31	5	1	0	$30 \cdot 31^1 + O(31^2)$	12960
3962.c3	7	1	2	0	$3 \cdot 7^1 + O(7^2)$	1416
3962.c3	283	111	99	0	$209 \cdot 283^1 + O(283^2)$	1416
4123.b1	7	4	1	2	$6 \cdot 7^1 + O(7^2)$	1296
4123.b1	31	25	1	2	$13 \cdot 31^1 + O(31^2)$	1296
4142.c2	109	75	105	0	$77 \cdot 109^1 + O(109^2)$	2592
4158.b1	7	2	4	0	$2 \cdot 7^2 + O(7^3)$	23328
4158.ba2	7	2	1	0	$4 \cdot 7^2 + O(7^3)$	7776
4365.f1	97	54	47	0	$52 \cdot 97^1 + O(97^2)$	10080
4385.b3	877	467	144	0	$385 \cdot 877^1 + O(877^2)$	22800
4826.b1	127	4	76	0	$40 \cdot 127^1 + O(127^2)$	1728
4914.h2	13	3	4	0	$11 \cdot 13^1 + O(13^2)$	7776
4914.l3	7	4	1	0	$1 \cdot 7^1 + O(7^2)$	3888
4914.l3	13	1	3	0	$4 \cdot 13^1 + O(13^2)$	3888
4921.c2	19	7	11	0	$11 \cdot 19^2 + O(19^3)$	7776
5110.b3	73	4	32	0	$23 \cdot 73^1 + O(73^2)$	3168
5246.b2	43	1	36	0	$36 \cdot 43^2 + O(43^3)$	46272
5246.b2	61	34	12	0	$12 \cdot 61^1 + O(61^2)$	46272
5495.a4	5	1	2	0	$2 \cdot 5^1 + O(5^2)$	2896
5495.a4	157	109	69	0	$69 \cdot 157^1 + O(157^2)$	2896
5530.k2	7	4	1	0	$6 \cdot 7^1 + O(7^2)$	8640
5530.k2	79	13	62	0	$65 \cdot 79^1 + O(79^2)$	8640
5565.b5	5	4	2	0	$2 \cdot 5^1 + O(5^2)$	11264
5565.b5	53	44	48	0	$48 \cdot 53^1 + O(53^2)$	11264
5805.g2	43	9	23	0	$25 \cdot 43^1 + O(43^2)$	3672
5859.b3	31	5	25	0	$5 \cdot 31^1 + O(31^2)$	5832
5890.a3	19	4	6	0	$14 \cdot 19^1 + O(19^2)$	3744
6045.f1	13	3	1	0	$8 \cdot 13^1 + O(13^2)$	58320
6045.g3	13	9	1	0	$12 \cdot 13^1 + O(13^2)$	2592
6070.a3	607	162	417	0	$438 \cdot 607^1 + O(607^2)$	36288
6118.i2	19	9	4	0	$13 \cdot 19^1 + O(19^2)$	3168

6138.e1	31	5	1	0	$1 \cdot 31^1 + O(31^2)$	15552
6489.c1	103	15	72	0	$9 \cdot 103^1 + O(103^2)$	22464
6594.k2	157	19	67	0	$112 \cdot 157^1 + O(157^2)$	36288
6606.i1	367	224	242	0	$109 \cdot 367^1 + O(367^2)$	72576
6633.e1	67	6	40	0	$45 \cdot 67^1 + O(67^2)$	31104
6882.f3	37	7	33	0	$17 \cdot 37^1 + O(37^2)$	11520
6886.a1	313	200	194	0	$173 \cdot 313^1 + O(313^2)$	42120
7094.a1	3547	2403	347	0	$793 \cdot 3547^1 + O(3547^2)$	194976
7137.e1	61	16	20	0	$58 \cdot 61^1 + O(61^2)$	38016
7182.j1	7	2	1	0	$6 \cdot 7^2 + O(7^3)$	77760
7182.j1	19	9	4	0	$13 \cdot 19^1 + O(19^2)$	77760
7254.b1	31	18	16	0	$2 \cdot 31^2 + O(31^3)$	272160
7462.i1	7	2	1	0	$6 \cdot 7^2 + O(7^3)$	11232
7826.b1	13	9	1	2	$5 \cdot 13^1 + O(13^2)$	6048
7826.b1	43	6	1	2	$10 \cdot 43^1 + O(43^2)$	6048
8027.b1	349	249	85	0	$337 \cdot 349^1 + O(349^2)$	14136
8235.e1	61	9	57	0	$39 \cdot 61^1 + O(61^2)$	10800
8235.f3	61	57	9	0	$3 \cdot 61^1 + O(61^2)$	3600
8370.e3	31	5	1	0	$1 \cdot 31^1 + O(31^2)$	5184
8414.g2	7	2	1	0	$1 \cdot 7^2 + O(7^3)$	19584
8442.a1	7	4	2	0	$2 \cdot 7^1 + O(7^2)$	142560
8442.a1	67	60	65	0	$28 \cdot 67^1 + O(67^2)$	142560
8685.f1	193	144	112	0	$121 \cdot 193^1 + O(193^2)$	72576
8694.b1	7	2	4	0	$3 \cdot 7^4 + O(7^5)$	684288
8694.l3	7	1	4	0	$5 \cdot 7^4 + O(7^5)$	228096
8757.d1	139	118	91	0	$77 \cdot 139^1 + O(139^2)$	23760
8778.i2	19	6	4	0	$2 \cdot 19^1 + O(19^2)$	3888
8827.c3	13	1	3	0	$4 \cdot 13^1 + O(13^2)$	5364
8827.c3	97	96	62	0	$16 \cdot 97^1 + O(97^2)$	5364
9030.j4	7	4	2	0	$4 \cdot 7^2 + O(7^3)$	62208
9030.j3	7	4	2	0	$5 \cdot 7^1 + O(7^2)$	124416
9135.g1	7	4	1	0	$6 \cdot 7^5 + O(7^6)$	5054400
9243.d3	79	13	62	0	$58 \cdot 79^1 + O(79^2)$	27648
9394.l3	7	4	1	0	$6 \cdot 7^1 + O(7^2)$	4176
9394.l3	61	60	14	0	$40 \cdot 61^1 + O(61^2)$	4176
9490.d3	13	1	9	0	$2 \cdot 13^4 + O(13^5)$	200448
9546.d1	37	9	12	0	$19 \cdot 37^2 + O(37^3)$	596736
9618.e3	7	1	4	0	$2 \cdot 7^1 + O(7^2)$	25056
9618.e3	229	60	144	0	$149 \cdot 229^1 + O(229^2)$	25056
9842.a3	7	2	1	2	$6 \cdot 7^2 + O(7^3)$	20736
9842.a3	37	10	1	2	$9 \cdot 37^1 + O(37^2)$	20736
10062.d1	43	23	11	0	$21 \cdot 43^1 + O(43^2)$	42120
10234.d2	7	2	1	0	$1 \cdot 7^2 + O(7^3)$	70848

10262.d3	7	1	2	0	$5 \cdot 7^1 + O(7^2)$	11040
10262.d3	733	686	549	0	$146 \cdot 733^1 + O(733^2)$	11040
10582.a3	13	3	1	0	$1 \cdot 13^1 + O(13^2)$	34560
10582.a3	37	26	1	0	$1 \cdot 37^2 + O(37^3)$	34560
10621.c3	13	12	4	0	$11 \cdot 13^1 + O(13^2)$	3456
10621.c3	19	7	11	0	$12 \cdot 19^1 + O(19^2)$	3456
10906.k3	19	5	16	0	$17 \cdot 19^2 + O(19^3)$	28224
10990.g3	157	86	90	0	$54 \cdot 157^1 + O(157^2)$	12960
11142.f1	619	362	231	0	$524 \cdot 619^1 + O(619^2)$	518400
11382.e1	7	4	1	0	$6 \cdot 7^1 + O(7^2)$	18144
11382.e1	271	81	90	0	$87 \cdot 271^1 + O(271^2)$	18144
11394.g3	211	34	54	0	$173 \cdot 211^1 + O(211^2)$	50112
11718.e1	7	2	1	0	$1 \cdot 7^1 + O(7^2)$	46656
11718.e1	31	20	4	0	$29 \cdot 31^1 + O(31^2)$	46656
12194.b1	7	2	1	0	$1 \cdot 7^1 + O(7^2)$	7776
12194.b1	13	12	4	0	$11 \cdot 13^1 + O(13^2)$	7776
12215.d3	7	2	1	0	$6 \cdot 7^2 + O(7^3)$	77568
12285.l1	7	1	2	0	$3 \cdot 7^1 + O(7^2)$	19440
12285.l1	13	3	9	0	$3 \cdot 13^1 + O(13^2)$	19440
12831.b1	7	2	4	0	$5 \cdot 7^1 + O(7^2)$	19296
12999.b2	7	1	4	0	$4 \cdot 7^2 + O(7^3)$	28704
12999.b2	619	547	265	0	$418 \cdot 619^1 + O(619^2)$	28704
13455.e1	13	9	1	0	$5 \cdot 13^2 + O(13^3)$	155520
13538.d3	7	4	1	0	$6 \cdot 7^1 + O(7^2)$	80832
13542.e1	61	20	16	0	$22 \cdot 61^2 + O(61^3)$	57888
13797.e3	7	4	2	0	$4 \cdot 7^1 + O(7^2)$	5832
13797.e3	73	3	24	0	$30 \cdot 73^1 + O(73^2)$	5832
13870.e3	19	1	11	0	$2 \cdot 19^2 + O(19^3)$	313632
13870.e3	73	72	9	0	$62 \cdot 73^1 + O(73^2)$	313632
13930.d2	7	4	2	0	$5 \cdot 7^1 + O(7^2)$	9504
13930.d2	199	106	92	0	$107 \cdot 199^1 + O(199^2)$	9504
13930.i3	7	4	1	0	$6 \cdot 7^1 + O(7^2)$	35856
13930.i3	199	63	25	0	$134 \cdot 199^1 + O(199^2)$	35856
14118.d3	13	9	3	0	$11 \cdot 13^1 + O(13^2)$	26784
14130.f1	157	52	153	0	$111 \cdot 157^1 + O(157^2)$	217728
14315.c3	7	1	2	0	$3 \cdot 7^1 + O(7^2)$	9156
14315.c3	409	303	407	0	$35 \cdot 409^1 + O(409^2)$	9156
14539.e3	31	4	7	0	$13 \cdot 31^2 + O(31^3)$	314640
14539.e3	67	24	26	0	$13 \cdot 67^1 + O(67^2)$	314640
14966.c1	7	1	4	0	$2 \cdot 7^2 + O(7^3)$	45600
14966.c1	1069	999	394	0	$785 \cdot 1069^1 + O(1069^2)$	45600
15598.b3	709	537	221	0	$72 \cdot 709^1 + O(709^2)$	81000
15666.b1	373	93	351	0	$144 \cdot 373^1 + O(373^2)$	55296

15694.b1	19	5	17	0	$14 \cdot 19^2 + O(19^3)$	100080
16146.e2	13	3	9	0	$7 \cdot 13^2 + O(13^3)$	186624
16146.n2	13	9	1	0	$11 \cdot 13^2 + O(13^3)$	62208
16254.a2	43	23	11	0	$21 \cdot 43^1 + O(43^2)$	25272
16555.d3	7	2	4	0	$4 \cdot 7^1 + O(7^2)$	8784
16870.a3	7	4	1	0	$6 \cdot 7^1 + O(7^2)$	12744
16870.a3	241	8	113	0	$178 \cdot 241^1 + O(241^2)$	12744
17195.a2	181	156	67	0	$130 \cdot 181^1 + O(181^2)$	8856
17394.f3	223	74	210	0	$59 \cdot 223^1 + O(223^2)$	31104
17603.a1	607	143	177	0	$154 \cdot 607^1 + O(607^2)$	53304
18090.r3	67	33	15	0	$45 \cdot 67^1 + O(67^2)$	10368
18486.e1	13	1	9	0	$6 \cdot 13^1 + O(13^2)$	279936
18486.e1	79	55	1	0	$78 \cdot 79^1 + O(79^2)$	279936
18910.c1	31	9	8	0	$4 \cdot 31^1 + O(31^2)$	67392
18990.n1	211	173	148	0	$63 \cdot 211^1 + O(211^2)$	311040
19474.d2	7	2	4	0	$5 \cdot 7^2 + O(7^3)$	583200
19570.e3	19	17	16	0	$13 \cdot 19^1 + O(19^2)$	57600
19870.a3	1987	1902	1431	0	$398 \cdot 1987^1 + O(1987^2)$	289656
20070.o1	223	55	30	0	$91 \cdot 223^1 + O(223^2)$	97200
20083.b3	7	2	1	0	$6 \cdot 7^2 + O(7^3)$	35424
20083.b3	19	1	7	0	$12 \cdot 19^1 + O(19^2)$	35424
20083.b3	151	20	36	0	$121 \cdot 151^1 + O(151^2)$	35424
20878.f3	13	9	3	0	$3 \cdot 13^1 + O(13^2)$	25056
21242.a3	13	3	1	0	$5 \cdot 13^2 + O(13^3)$	207360
21242.a3	43	35	13	0	$38 \cdot 43^1 + O(43^2)$	207360
21307.b4	13	3	2	0	$2 \cdot 13^1 + O(13^2)$	22320
21307.b4	149	73	66	0	$66 \cdot 149^1 + O(149^2)$	22320
22274.f3	37	7	34	0	$24 \cdot 37^1 + O(37^2)$	27648
22594.b2	13	3	1	0	$8 \cdot 13^1 + O(13^2)$	82080
22778.e1	7	1	4	0	$4 \cdot 7^2 + O(7^3)$	75936
22778.e1	1627	1163	935	0	$1177 \cdot 1627^1 + O(1627^2)$	75936
22890.l1	7	4	6	0	$6 \cdot 7^1 + O(7^2)$	42768
22890.l1	109	29	83	0	$44 \cdot 109^1 + O(109^2)$	42768
23086.f3	7	4	2	0	$3 \cdot 7^2 + O(7^3)$	193536
23254.d3	7	2	1	0	$5 \cdot 7^1 + O(7^2)$	51840
23254.d3	151	2	64	0	$85 \cdot 151^1 + O(151^2)$	51840
23902.e3	19	6	4	0	$17 \cdot 19^1 + O(19^2)$	16848
23959.a1	13	1	9	0	$2 \cdot 13^2 + O(13^3)$	490320
23959.a1	97	22	81	0	$71 \cdot 97^2 + O(97^3)$	490320
24766.d1	7	1	4	0	$2 \cdot 7^1 + O(7^2)$	23400
24766.d1	61	14	60	0	$11 \cdot 61^1 + O(61^2)$	23400
24930.l1	277	91	30	0	$226 \cdot 277^1 + O(277^2)$	233280
25326.f2	67	26	17	0	$57 \cdot 67^1 + O(67^2)$	62208

25470.g3	283	235	152	0	$66 \cdot 283^1 + O(283^2)$	427680
25690.p3	367	210	343	0	$168 \cdot 367^1 + O(367^2)$	368064
25803.f1	61	15	34	0	$3 \cdot 61^2 + O(61^3)$	1886976
26187.g1	7	2	1	0	$1 \cdot 7^1 + O(7^2)$	12744
26190.h1	97	65	44	0	$23 \cdot 97^1 + O(97^2)$	134136
26190.m3	97	31	18	0	$29 \cdot 97^1 + O(97^2)$	44712
26474.b3	31	10	2	0	$23 \cdot 31^1 + O(31^2)$	89424
26838.t1	7	4	1	0	$1 \cdot 7^4 + O(7^5)$	933120
26962.g3	13	10	12	0	$11 \cdot 13^1 + O(13^2)$	35640
26962.g3	61	57	9	0	$9 \cdot 61^1 + O(61^2)$	35640
27027.i1	7	2	3	0	$3 \cdot 7^1 + O(7^2)$	17496
27027.i1	13	3	1	0	$1 \cdot 13^1 + O(13^2)$	17496
27105.f3	13	1	9	0	$7 \cdot 13^1 + O(13^2)$	34272
27105.f3	139	124	65	0	$8 \cdot 139^1 + O(139^2)$	34272
27741.b1	7	1	4	0	$5 \cdot 7^2 + O(7^3)$	36384
27741.b1	1321	358	646	0	$831 \cdot 1321^1 + O(1321^2)$	36384
27790.h2	7	2	4	0	$3 \cdot 7^1 + O(7^2)$	25920
27790.h2	397	256	367	0	$136 \cdot 397^1 + O(397^2)$	25920
27794.k3	13	1	3	0	$10 \cdot 13^1 + O(13^2)$	24000
27794.k3	1069	818	863	0	$948 \cdot 1069^1 + O(1069^2)$	24000
27898.f2	13	3	1	0	$9 \cdot 13^1 + O(13^2)$	44928
27898.f2	37	27	11	0	$24 \cdot 37^1 + O(37^2)$	44928
28210.b2	13	3	1	0	$12 \cdot 13^1 + O(13^2)$	69984
28854.i1	229	129	218	0	$8 \cdot 229^1 + O(229^2)$	285120
29638.k3	73	16	2	0	$59 \cdot 73^1 + O(73^2)$	222336
29711.g2	37	26	10	0	$27 \cdot 37^2 + O(37^3)$	67824
29778.j2	7	2	1	0	$4 \cdot 7^1 + O(7^2)$	612360
29778.j2	709	520	346	0	$377 \cdot 709^1 + O(709^2)$	612360
29818.a1	877	593	596	0	$178 \cdot 877^1 + O(877^2)$	228096
29862.s3	79	62	4	0	$70 \cdot 79^1 + O(79^2)$	46656
30155.a3	163	158	36	0	$98 \cdot 163^2 + O(163^3)$	451008
30310.d2	7	4	1	0	$5 \cdot 7^1 + O(7^2)$	79704
30518.b1	15259	14284	10107	0	$9712 \cdot 15259^1 + O(15259^2)$	2173920
30818.b3	811	471	746	0	$110 \cdot 811^1 + O(811^2)$	25272
31086.i1	157	147	130	0	$46 \cdot 157^1 + O(157^2)$	311040
31174.c1	13	3	1	0	$10 \cdot 13^1 + O(13^2)$	594864
31257.a1	151	121	84	0	$26 \cdot 151^1 + O(151^2)$	259200
31390.d3	73	2	16	0	$69 \cdot 73^1 + O(73^2)$	80640
31934.a3	7	4	1	0	$6 \cdot 7^1 + O(7^2)$	94320
32445.e1	7	2	4	0	$4 \cdot 7^1 + O(7^2)$	336960
32445.e1	103	4	18	0	$35 \cdot 103^1 + O(103^2)$	336960
32718.d2	19	5	17	0	$3 \cdot 19^1 + O(19^2)$	6531840
32741.a3	1129	735	1066	0	$285 \cdot 1129^1 + O(1129^2)$	255948

32922.d1	31	20	4	0	$29 \cdot 31^2 + O(31^3)$	2706048
33054.g2	7	1	2	0	$4 \cdot 7^1 + O(7^2)$	93312
33054.g2	787	396	554	0	$641 \cdot 787^1 + O(787^2)$	93312
33822.e1	1879	223	1814	0	$910 \cdot 1879^1 + O(1879^2)$	1368576
33915.j1	19	17	5	0	$15 \cdot 19^2 + O(19^3)$	181440
34131.c1	31	8	14	0	$13 \cdot 31^1 + O(31^2)$	27528
34131.c1	367	137	236	0	$128 \cdot 367^1 + O(367^2)$	27528
34474.b1	1567	141	219	0	$849 \cdot 1567^1 + O(1567^2)$	333072
34818.c3	829	23	418	0	$642 \cdot 829^1 + O(829^2)$	381600
34995.c4	5	1	2	0	$3 \cdot 5^1 + O(5^2)$	342288
34995.c4	2333	1040	336	0	$1021 \cdot 2333^1 + O(2333^2)$	342288
35049.d3	7	1	2	0	$4 \cdot 7^1 + O(7^2)$	61824
35049.d3	1669	27	1622	0	$425 \cdot 1669^1 + O(1669^2)$	61824
35126.b3	7	2	1	0	$6 \cdot 7^1 + O(7^2)$	508032
35126.b3	193	187	124	0	$160 \cdot 193^1 + O(193^2)$	508032
35415.a1	787	598	203	0	$397 \cdot 787^1 + O(787^2)$	1586304
35658.c1	283	179	152	0	$217 \cdot 283^1 + O(283^2)$	305856
35910.l3	7	4	1	0	$6 \cdot 7^1 + O(7^2)$	46656
35910.l3	19	17	16	0	$4 \cdot 19^1 + O(19^2)$	46656
36218.e3	13	9	1	0	$5 \cdot 13^1 + O(13^2)$	96768
36218.e3	199	86	161	0	$31 \cdot 199^1 + O(199^2)$	96768
36365.c3	7	1	2	0	$4 \cdot 7^1 + O(7^2)$	25680
36365.c3	1039	262	315	0	$731 \cdot 1039^1 + O(1039^2)$	25680
36522.d1	2029	1789	1364	0	$1267 \cdot 2029^1 + O(2029^2)$	1607040
36621.e1	313	144	27	0	$261 \cdot 313^1 + O(313^2)$	196560
36894.s2	13	1	3	0	$6 \cdot 13^1 + O(13^2)$	124416
36894.s2	43	41	31	0	$29 \cdot 43^1 + O(43^2)$	124416
37355.c2	31	2	10	0	$14 \cdot 31^1 + O(31^2)$	19200
37355.c2	241	8	120	0	$222 \cdot 241^1 + O(241^2)$	19200
38358.d1	2131	193	822	0	$207 \cdot 2131^1 + O(2131^2)$	2358720
38934.d1	7	4	1	0	$6 \cdot 7^1 + O(7^2)$	466560
38934.d1	103	4	81	0	$100 \cdot 103^1 + O(103^2)$	466560
38934.i2	103	19	50	0	$101 \cdot 103^1 + O(103^2)$	163296
38997.c1	619	265	547	0	$95 \cdot 619^1 + O(619^2)$	2066688
39195.n1	67	6	40	0	$25 \cdot 67^2 + O(67^3)$	3732480
39277.b3	7	1	2	0	$4 \cdot 7^1 + O(7^2)$	33264
39277.b3	31	19	2	0	$23 \cdot 31^1 + O(31^2)$	33264
39277.b3	181	5	117	0	$152 \cdot 181^1 + O(181^2)$	33264
39438.d1	7	4	1	0	$6 \cdot 7^2 + O(7^3)$	7838208
39438.d1	313	150	174	0	$76 \cdot 313^1 + O(313^2)$	7838208
39465.c1	877	874	849	0	$670 \cdot 877^1 + O(877^2)$	684000
39798.c3	67	19	33	0	$10 \cdot 67^1 + O(67^2)$	101088
39798.j1	67	33	19	0	$35 \cdot 67^1 + O(67^2)$	33696

40770.h3	151	11	90	0	$77 \cdot 151^1 + O(151^2)$	82944
40770.m1	151	90	11	0	$48 \cdot 151^1 + O(151^2)$	248832
41230.i3	7	1	2	0	$5 \cdot 7^1 + O(7^2)$	570240
41230.i3	31	10	2	0	$27 \cdot 31^2 + O(31^3)$	570240
41790.h1	7	1	4	0	$3 \cdot 7^1 + O(7^2)$	165888
41790.h1	199	4	26	0	$130 \cdot 199^1 + O(199^2)$	165888
42658.b3	7	4	1	0	$6 \cdot 7^1 + O(7^2)$	139392
42658.b3	277	175	23	0	$142 \cdot 277^1 + O(277^2)$	139392
42822.b3	61	16	25	0	$19 \cdot 61^1 + O(61^2)$	186624
44310.i3	7	4	2	0	$4 \cdot 7^1 + O(7^2)$	103680
45370.i2	13	1	9	0	$3 \cdot 13^1 + O(13^2)$	667872
45370.i2	349	171	256	0	$347 \cdot 349^1 + O(349^2)$	667872
46035.g2	31	25	5	0	$6 \cdot 31^1 + O(31^2)$	77760
46035.h2	31	1	25	0	$26 \cdot 31^1 + O(31^2)$	25920
46629.i2	157	100	113	0	$127 \cdot 157^1 + O(157^2)$	130464
46761.e3	13	9	3	0	$10 \cdot 13^1 + O(13^2)$	60480
47034.f1	67	6	21	0	$12 \cdot 67^2 + O(67^3)$	4199040
47214.a1	43	36	1	0	$1 \cdot 43^2 + O(43^3)$	9994752
47474.b3	7	1	4	0	$3 \cdot 7^2 + O(7^3)$	151680
47474.b3	3391	2355	1490	0	$1210 \cdot 3391^1 + O(3391^2)$	151680
50626.b3	1489	1119	400	0	$286 \cdot 1489^1 + O(1489^2)$	609120
50817.b3	13	1	9	0	$10 \cdot 13^1 + O(13^2)$	77952
50817.b3	1303	706	617	0	$292 \cdot 1303^1 + O(1303^2)$	77952
51170.k2	7	4	1	0	$6 \cdot 7^1 + O(7^2)$	54432
51245.a3	5	1	3	0	$3 \cdot 5^1 + O(5^2)$	50208
51245.a3	277	144	53	0	$53 \cdot 277^1 + O(277^2)$	50208
51338.a3	7	4	1	0	$6 \cdot 7^1 + O(7^2)$	208656
51338.a3	19	9	6	0	$5 \cdot 19^1 + O(19^2)$	208656
51982.g2	7	4	1	0	$4 \cdot 7^1 + O(7^2)$	101088
51982.g2	79	2	46	0	$59 \cdot 79^1 + O(79^2)$	101088
52110.f1	193	144	130	0	$65 \cdot 193^1 + O(193^2)$	870912
52110.j2	193	109	85	0	$56 \cdot 193^1 + O(193^2)$	290304
52458.f3	7	2	1	0	$1 \cdot 7^1 + O(7^2)$	141696
52458.f3	1249	1181	147	0	$369 \cdot 1249^1 + O(1249^2)$	141696
53382.o2	7	2	1	0	$6 \cdot 7^1 + O(7^2)$	2612736
53382.o2	31	25	1	0	$1 \cdot 31^2 + O(31^3)$	2612736
60014.e1	811	448	659	0	$298 \cdot 811^1 + O(811^2)$	108864
60078.h2	19	6	4	0	$13 \cdot 19^1 + O(19^2)$	165888
60585.g2	7	2	1	0	$6 \cdot 7^1 + O(7^2)$	79488
60585.g2	577	216	425	0	$263 \cdot 577^1 + O(577^2)$	79488
60642.k2	1123	1048	894	0	$663 \cdot 1123^1 + O(1123^2)$	1175040
60853.a3	31	7	4	0	$2 \cdot 31^1 + O(31^2)$	73368
61243.b3	13	12	4	0	$11 \cdot 13^1 + O(13^2)$	51048

61243.b3	673	166	576	0	$24 \cdot 673^1 + O(673^2)$	51048
70115.a2	379	119	255	0	$133 \cdot 379^1 + O(379^2)$	46440
90370.a1	7	1	2	0	$3 \cdot 7^1 + O(7^2)$	254664
90370.a1	1291	585	983	0	$925 \cdot 1291^1 + O(1291^2)$	254664