					*fam7 19 and +30 L4 and +7	*fam11 23 and +30 L8 and + 11	*fam13 1 and + 30 L0 an + 13	*fam17 29 and + 30 L16 and + 17	*fam19 7 and + 30 L4 and +19	*fam23 11 and + 30 L8 and + 23	*fam29 17 and + 30 L16 and + 29	
ps	start	sq root	level 13	*fam1 by 1	*fam7 by 7	*fam11 by 11	*fam13 by 13	*fam17 by 17	*fam19 by 19	*fam23 by 23	*fam29 by 29	Factor
13	13	3	0	13	1.86	1.18	1.00	0.76	0.68	0.57	0.45	TRUE
43	13	7	1	43	6.14	3.91	3.31	2.53	2.26	1.87	1.48	FALSE
73	13	9	2	73	10.43	6.64	5.62	4.29	3.84	3.17	2.52	FALSE
103	13	10	3	103	14.71	9.36	7.92	6.06	5.42	4.48	3.55	FALSE
133	13	12	4	133	19.00	12.09	10.23	7.82	7.00	5.78	4.59	TRUE
163	13	13	5	163	23.29	14.82	12.54	9.59	8.58	7.09	5.62	FALSE
193	13	14	6	193	27.57	17.55	14.85	11.35	10.16	8.39	6.66	FALSE
223	13	15	7	223	31.86	20.27	17.15	13.12	11.74	9.70	7.69	FALSE
253	13	16	8	253	36.14	23.00	19.46	14.88	13.32	11.00	8.72	TRUE
283	13	17	9	283	40.43	25.73	21.77	16.65	14.89	12.30	9.76	FALSE
313	13	18	10	313	44.71	28.45	24.08	18.41	16.47	13.61	10.79	FALSE
343	13	19	11	343	49.00	31.18	26.38	20.18	18.05	14.91	11.83	TRUE
373	13	20	12	373	53.29	33.91	28.69	21.94	19.63	16.22	12.86	FALSE
403	13	20	13	403	57.57	36.64	31.00	23.71	21.21	17.52	13.90	TRUE
433	13	21	14	433	61.86	39.36	33.31	25.47	22.79	18.83	14.93	FALSE
463	13	22	15	463	66.14	42.09	35.62	27.24	24.37	20.13	15.97	FALSE
493	13	23	16	493	70.43	44.82	37.92	29.00	25.95	21.43	17.00	TRUE
523	13	23	17	523	74.71	47.55	40.23	30.76	27.53	22.74	18.03	FALSE
553	13	24	18	553	79.00	50.27	42.54	32.53	29.11	24.04	19.07	TRUE
583	13	25	19	583	83.29	53.00	44.85	34.29	30.68	25.35	20.10	TRUE
613	13	25	20	613	87.57	55.73	47.15	36.06	32.26	26.65	21.14	FALSE
643	13	26	21	643	91.86	58.45	49.46	37.82	33.84	27.96	22.17	FALSE
673	13	26	22	673	96.14	61.18	51.77	39.59	35.42	29.26	23.21	FALSE
703	13	27	23	703	100.43	63.91	54.08	41.35	37.00	30.57	24.24	TRUE
733	13	27	24	733	104.71	66.64	56.38	43.12	38.58	31.87	25.28	FALSE
763	13	28	25	763	109.00	69.36	58.69	44.88	40.16	33.17	26.31	TRUE
793	13	29	26	793	113.29	72.09	61.00	46.65	41.74	34.48	27.34	TRUE
823	13	29	27	823	117.57	74.82	63.31	48.41	43.32	35.78	28.38	FALSE
853	13	30	28	853	121.86	77.55	65.62	50.18	44.89	37.09	29.41	FALSE
883	13	30	29	883	126.14	80.27	67.92	51.94	46.47	38.39	30.45	FALSE
913	13	31	30	913	130.43	83.00	70.23	53.71	48.05	39.70	31.48	TRUE
943	13	31	31	943	134.71	85.73	72.54	55.47	49.63	41.00	32.52	TRUE
973	13	32	32	973	139.00	88.45	74.85	57.24	51.21	42.30	33.55	TRUE
1003	13	32	33	1003	143.29	91.18	77.15	59.00	52.79	43.61	34.59	TRUE

*fam7	*fam11	*fam13	*fam17	*fam19	*fam23	*fam29
19 and +30	23 and +30	1 and + 30	29 and + 30	7 and + 30	11 and + 30	17 and + 30
L4 and +7	L8 and + 11	L0 an + 13	L16 and + 17	L4 and +19	L8 and + 23	L16 and + 29

ps	start	sq root	level 13	*fam1 by 1	*fam7 by 7	*fam11 by 11	*fam13 by 13	*fam17 by 17	*fam19 by 19	*fam23 by 23	*fam29 by 29	Factor
1033	13	33	34	1033	147.57	93.91	79.46	60.76	54.37	44.91	35.62	FALSE
1063	13	33	35	1063	151.86	96.64	81.77	62.53	55.95	46.22	36.66	FALSE
1093	13	33	36	1093	156.14	99.36	84.08	64.29	57.53	47.52	37.69	FALSE
1123	13	34	37	1123	160.43	102.09	86.38	66.06	59.11	48.83	38.72	FALSE
1153	13	34	38	1153	164.71	104.82	88.69	67.82	60.68	50.13	39.76	FALSE
1183	13	35	39	1183	169.00	107.55	91.00	69.59	62.26	51.43	40.79	TRUE
1213	13	35	40	1213	173.29	110.27	93.31	71.35	63.84	52.74	41.83	FALSE
1243	13	36	41	1243	177.57	113.00	95.62	73.12	65.42	54.04	42.86	TRUE
1273	13	36	42	1273	181.86	115.73	97.92	74.88	67.00	55.35	43.90	TRUE
1303	13	37	43	1303	186.14	118.45	100.23	76.65	68.58	56.65	44.93	FALSE
1333	13	37	44	1333	190.43	121.18	102.54	78.41	70.16	57.96	45.97	FALSE
1363	13	37	45	1363	194.71	123.91	104.85	80.18	71.74	59.26	47.00	TRUE
1393	13	38	46	1393	199.00	126.64	107.15	81.94	73.32	60.57	48.03	TRUE
1423	13	38	47	1423	203.29	129.36	109.46	83.71	74.89	61.87	49.07	FALSE
1453	13	39	48	1453	207.57	132.09	111.77	85.47	76.47	63.17	50.10	FALSE
1483	13	39	49	1483	211.86	134.82	114.08	87.24	78.05	64.48	51.14	FALSE
1513	13	39	50	1513	216.14	137.55	116.38	89.00	79.63	65.78	52.17	TRUE
1543	13	40	51	1543	220.43	140.27	118.69	90.76	81.21	67.09	53.21	FALSE
1573	13	40	52	1573	224.71	143.00	121.00	92.53	82.79	68.39	54.24	TRUE
1603	13	40	53	1603	229.00	145.73	123.31	94.29	84.37	69.70	55.28	TRUE
1633	13	41	54	1633	233.29	148.45	125.62	96.06	85.95	71.00	56.31	TRUE
1663	13	41	55	1663	237.57	151.18	127.92	97.82	87.53	72.30	57.34	FALSE
1693	13	42	56	1693	241.86	153.91	130.23	99.59	89.11	73.61	58.38	FALSE
1723	13	42	57	1723	246.14	156.64	132.54	101.35	90.68	74.91	59.41	FALSE
1753	13	42	58	1753	250.43	159.36	134.85	103.12	92.26	76.22	60.45	FALSE
1783	13	43	59	1783	254.71	162.09	137.15	104.88	93.84	77.52	61.48	FALSE
1813	13	43	60	1813	259.00	164.82	139.46	106.65	95.42	78.83	62.52	TRUE
1843	13	43	61	1843	263.29	167.55	141.77	108.41	97.00	80.13	63.55	TRUE
1873	13	44	62	1873	267.57	170.27	144.08	110.18	98.58	81.43	64.59	FALSE
1903	13	44	63	1903	271.86	173.00	146.38	111.94	100.16	82.74	65.62	TRUE
1933	13	44	64	1933	276.14	175.73	148.69	113.71	101.74	84.04	66.66	FALSE
1963	13	45	65	1963	280.43	178.45	151.00	115.47	103.32	85.35	67.69	TRUE
1993	13	45	66	1993	284.71	181.18	153.31	117.24	104.89	86.65	68.72	FALSE
2023	13	45	67	2023	289.00	183.91	155.62	119.00	106.47	87.96	69.76	TRUE

	*fam7	*fam11	*fam13	*fam17	*fam19	*fam23	*fam29
	19 and +30	23 and +30	1 and + 30	29 and + 30	7 and + 30	11 and + 30	17 and + 30
	L4 and +7	L8 and + 11	L0 an + 13	L16 and + 17	L4 and +19	L8 and + 23	L16 and + 29

ps	start	sq root	level 13	*fam1 by 1	*fam7 by 7	*fam11 by 11	*fam13 by 13	*fam17 by 17	*fam19 by 19	*fam23 by 23	*fam29 by 29	Factor
2053	13	46	68	2053	293.29	186.64	157.92	120.76	108.05	89.26	70.79	FALSE
2083	13	46	69	2083	297.57	189.36	160.23	122.53	109.63	90.57	71.83	FALSE
2113	13	46	70	2113	301.86	192.09	162.54	124.29	111.21	91.87	72.86	FALSE
2143	13	47	71	2143	306.14	194.82	164.85	126.06	112.79	93.17	73.90	FALSE
2173	13	47	72	2173	310.43	197.55	167.15	127.82	114.37	94.48	74.93	FALSE
2203	13	47	73	2203	314.71	200.27	169.46	129.59	115.95	95.78	75.97	FALSE
2233	13	48	74	2233	319.00	203.00	171.77	131.35	117.53	97.09	77.00	TRUE
2263	13	48	75	2263	323.29	205.73	174.08	133.12	119.11	98.39	78.03	FALSE
2293	13	48	76	2293	327.57	208.45	176.38	134.88	120.68	99.70	79.07	FALSE
2323	13	49	77	2323	331.86	211.18	178.69	136.65	122.26	101.00	80.10	TRUE
2353	13	49	78	2353	336.14	213.91	181.00	138.41	123.84	102.30	81.14	TRUE
2383	13	49	79	2383	340.43	216.64	183.31	140.18	125.42	103.61	82.17	FALSE
2413	13	50	80	2413	344.71	219.36	185.62	141.94	127.00	104.91	83.21	TRUE
2443	13	50	81	2443	349.00	222.09	187.92	143.71	128.58	106.22	84.24	TRUE
2473	13	50	82	2473	353.29	224.82	190.23	145.47	130.16	107.52	85.28	FALSE
2503	13	50	83	2503	357.57	227.55	192.54	147.24	131.74	108.83	86.31	FALSE
2533	13	51	84	2533	361.86	230.27	194.85	149.00	133.32	110.13	87.34	TRUE
2563	13	51	85	2563	366.14	233.00	197.15	150.76	134.89	111.43	88.38	TRUE
2593	13	51	86	2593	370.43	235.73	199.46	152.53	136.47	112.74	89.41	FALSE
2623	13	52	87	2623	374.71	238.45	201.77	154.29	138.05	114.04	90.45	FALSE
2653	13	52	88	2653	379.00	241.18	204.08	156.06	139.63	115.35	91.48	TRUE
2683	13	52	89	2683	383.29	243.91	206.38	157.82	141.21	116.65	92.52	FALSE
2713	13	53	90	2713	387.57	246.64	208.69	159.59	142.79	117.96	93.55	FALSE
2743	13	53	91	2743	391.86	249.36	211.00	161.35	144.37	119.26	94.59	TRUE
2773	13	53	92	2773	396.14	252.09	213.31	163.12	145.95	120.57	95.62	FALSE
2803	13	53	93	2803	400.43	254.82	215.62	164.88	147.53	121.87	96.66	FALSE
2833	13	54	94	2833	404.71	257.55	217.92	166.65	149.11	123.17	97.69	FALSE
2863	13	54	95	2863	409.00	260.27	220.23	168.41	150.68	124.48	98.72	TRUE
2893	13	54	96	2893	413.29	263.00	222.54	170.18	152.26	125.78	99.76	TRUE
2923	13	55	97	2923	417.57	265.73	224.85	171.94	153.84	127.09	100.79	FALSE
2953	13	55	98	2953	421.86	268.45	227.15	173.71	155.42	128.39	101.83	FALSE
2983	13	55	99	2983	426.14	271.18	229.46	175.47	157.00	129.70	102.86	TRUE
3013	13	55	100	3013	430.43	273.91	231.77	177.24	158.58	131.00	103.90	TRUE
3043	13	56	101	3043	434.71	276.64	234.08	179.00	160.16	132.30	104.93	TRUE

	*fam7	*fam11	*fam13	*fam17	*fam19	*fam23	*fam29
	19 and +30	23 and +30	1 and + 30	29 and + 30	7 and + 30	11 and + 30	17 and + 30
	L4 and +7	L8 and + 11	L0 an + 13	L16 and + 17	L4 and +19	L8 and + 23	L16 and + 29

| | | | | *fam1 | *fam7 | *fam11 | *fam13 | *fam17 | *fam19 | *fam23 | *fam29 | |
ps	start	sq root	level 13	by 1	by 7	by 11	by 13	by 17	by 19	by 23	by 29	Factor
3073	13	56	102	3073	439.00	279.36	236.38	180.76	161.74	133.61	105.97	TRUE
3103	13	56	103	3103	443.29	282.09	238.69	182.53	163.32	134.91	107.00	TRUE
3133	13	56	104	3133	447.57	284.82	241.00	184.29	164.89	136.22	108.03	TRUE
3163	13	57	105	3163	451.86	287.55	243.31	186.06	166.47	137.52	109.07	FALSE
3193	13	57	106	3193	456.14	290.27	245.62	187.82	168.05	138.83	110.10	FALSE
3223	13	57	107	3223	460.43	293.00	247.92	189.59	169.63	140.13	111.14	TRUE
3253	13	57	108	3253	464.71	295.73	250.23	191.35	171.21	141.43	112.17	FALSE
3283	13	58	109	3283	469.00	298.45	252.54	193.12	172.79	142.74	113.21	TRUE
3313	13	58	110	3313	473.29	301.18	254.85	194.88	174.37	144.04	114.24	FALSE
3343	13	58	111	3343	477.57	303.91	257.15	196.65	175.95	145.35	115.28	FALSE
3373	13	59	112	3373	481.86	306.64	259.46	198.41	177.53	146.65	116.31	FALSE
3403	13	59	113	3403	486.14	309.36	261.77	200.18	179.11	147.96	117.34	FALSE
3433	13	59	114	3433	490.43	312.09	264.08	201.94	180.68	149.26	118.38	FALSE
3463	13	59	115	3463	494.71	314.82	266.38	203.71	182.26	150.57	119.41	FALSE
3493	13	60	116	3493	499.00	317.55	268.69	205.47	183.84	151.87	120.45	TRUE
3523	13	60	117	3523	503.29	320.27	271.00	207.24	185.42	153.17	121.48	TRUE
3553	13	60	118	3553	507.57	323.00	273.31	209.00	187.00	154.48	122.52	TRUE
3583	13	60	119	3583	511.86	325.73	275.62	210.76	188.58	155.78	123.55	FALSE
3613	13	61	120	3613	516.14	328.45	277.92	212.53	190.16	157.09	124.59	FALSE
3643	13	61	121	3643	520.43	331.18	280.23	214.29	191.74	158.39	125.62	FALSE
3673	13	61	122	3673	524.71	333.91	282.54	216.06	193.32	159.70	126.66	FALSE
3703	13	61	123	3703	529.00	336.64	284.85	217.82	194.89	161.00	127.69	TRUE
3733	13	62	124	3733	533.29	339.36	287.15	219.59	196.47	162.30	128.72	FALSE
3763	13	62	125	3763	537.57	342.09	289.46	221.35	198.05	163.61	129.76	FALSE
3793	13	62	126	3793	541.86	344.82	291.77	223.12	199.63	164.91	130.79	FALSE
3823	13	62	127	3823	546.14	347.55	294.08	224.88	201.21	166.22	131.83	FALSE
3853	13	63	128	3853	550.43	350.27	296.38	226.65	202.79	167.52	132.86	FALSE
3883	13	63	129	3883	554.71	353.00	298.69	228.41	204.37	168.83	133.90	TRUE
3913	13	63	130	3913	559.00	355.73	301.00	230.18	205.95	170.13	134.93	TRUE
3943	13	63	131	3943	563.29	358.45	303.31	231.94	207.53	171.43	135.97	FALSE
3973	13	63	132	3973	567.57	361.18	305.62	233.71	209.11	172.74	137.00	TRUE
4003	13	64	133	4003	571.86	363.91	307.92	235.47	210.68	174.04	138.03	FALSE
4033	13	64	134	4033	576.14	366.64	310.23	237.24	212.26	175.35	139.07	FALSE
4063	13	64	135	4063	580.43	369.36	312.54	239.00	213.84	176.65	140.10	TRUE