	*fam7	*fam11	*fam13	*fam17	*fam19	*fam23	*fam29
	17 and +30	19 and +30	23 and + 30	7 and + 30	11 and + 30	13 and + 30	1 and + 30
	L3 and +7	L6 and + 11	L9 and + 13	L3 and + 17	L6 and +19	L9 and + 23	L0 and + 29

ps	start	sq root	level 29	*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
29	29	3	0	29	4.14	2.64	2.23	1.71	1.53	1.26	1.00	TRUE
59	29	7	1	59	8.43	5.36	4.54	3.47	3.11	2.57	2.03	FALSE
89	29	9	2	89	12.71	8.09	6.85	5.24	4.68	3.87	3.07	FALSE
119	29	10	3	119	17.00	10.82	9.15	7.00	6.26	5.17	4.10	TRUE
149	29	12	4	149	21.29	13.55	11.46	8.76	7.84	6.48	5.14	FALSE
179	29	13	5	179	25.57	16.27	13.77	10.53	9.42	7.78	6.17	FALSE
209	29	14	6	209	29.86	19.00	16.08	12.29	11.00	9.09	7.21	TRUE
239	29	15	7	239	34.14	21.73	18.38	14.06	12.58	10.39	8.24	FALSE
269	29	16	8	269	38.43	24.45	20.69	15.82	14.16	11.70	9.28	FALSE
299	29	17	9	299	42.71	27.18	23.00	17.59	15.74	13.00	10.31	TRUE
329	29	18	10	329	47.00	29.91	25.31	19.35	17.32	14.30	11.34	TRUE
359	29	19	11	359	51.29	32.64	27.62	21.12	18.89	15.61	12.38	FALSE
389	29	20	12	389	55.57	35.36	29.92	22.88	20.47	16.91	13.41	FALSE
419	29	20	13	419	59.86	38.09	32.23	24.65	22.05	18.22	14.45	FALSE
449	29	21	14	449	64.14	40.82	34.54	26.41	23.63	19.52	15.48	FALSE
479	29	22	15	479	68.43	43.55	36.85	28.18	25.21	20.83	16.52	FALSE
509	29	23	16	509	72.71	46.27	39.15	29.94	26.79	22.13	17.55	FALSE
539	29	23	17	539	77.00	49.00	41.46	31.71	28.37	23.43	18.59	TRUE
569	29	24	18	569	81.29	51.73	43.77	33.47	29.95	24.74	19.62	FALSE
599	29	25	19	599	85.57	54.45	46.08	35.24	31.53	26.04	20.66	FALSE
629	29	25	20	629	89.86	57.18	48.38	37.00	33.11	27.35	21.69	TRUE
659	29	26	21	659	94.14	59.91	50.69	38.76	34.68	28.65	22.72	FALSE
689	29	26	22	689	98.43	62.64	53.00	40.53	36.26	29.96	23.76	TRUE
719	29	27	23	719	102.71	65.36	55.31	42.29	37.84	31.26	24.79	FALSE
749	29	27	24	749	107.00	68.09	57.62	44.06	39.42	32.57	25.83	TRUE
779	29	28	25	779	111.29	70.82	59.92	45.82	41.00	33.87	26.86	TRUE
809	29	29	26	809	115.57	73.55	62.23	47.59	42.58	35.17	27.90	FALSE
839	29	29	27	839	119.86	76.27	64.54	49.35	44.16	36.48	28.93	FALSE
869	29	30	28	869	124.14	79.00	66.85	51.12	45.74	37.78	29.97	TRUE
899	29	30	29	899	128.43	81.73	69.15	52.88	47.32	39.09	31.00	TRUE
929	29	31	30	929	132.71	84.45	71.46	54.65	48.89	40.39	32.03	FALSE
959	29	31	31	959	137.00	87.18	73.77	56.41	50.47	41.70	33.07	TRUE
989	29	32	32	989	141.29	89.91	76.08	58.18	52.05	43.00	34.10	TRUE
1019	29	32	33	1019	145.57	92.64	78.38	59.94	53.63	44.30	35.14	FALSE

*fam7	*fam11	*fam13	*fam17	*fam19	*fam23	*fam29
17 and +30	19 and +30	23 and + 30	7 and + 30	11 and + 30	13 and + 30	1 and + 30
L3 and +7	L6 and + 11	L9 and + 13	L3 and + 17	L6 and +19	L9 and + 23	L0 and + 29

ps	start	sq root	level 29	*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
1049	29	33	34	1049	149.86	95.36	80.69	61.71	55.21	45.61	36.17	FALSE
1079	29	33	35	1079	154.14	98.09	83.00	63.47	56.79	46.91	37.21	TRUE
1109	29	33	36	1109	158.43	100.82	85.31	65.24	58.37	48.22	38.24	FALSE
1139	29	34	37	1139	162.71	103.55	87.62	67.00	59.95	49.52	39.28	TRUE
1169	29	34	38	1169	167.00	106.27	89.92	68.76	61.53	50.83	40.31	TRUE
1199	29	35	39	1199	171.29	109.00	92.23	70.53	63.11	52.13	41.34	TRUE
1229	29	35	40	1229	175.57	111.73	94.54	72.29	64.68	53.43	42.38	FALSE
1259	29	36	41	1259	179.86	114.45	96.85	74.06	66.26	54.74	43.41	FALSE
1289	29	36	42	1289	184.14	117.18	99.15	75.82	67.84	56.04	44.45	FALSE
1319	29	37	43	1319	188.43	119.91	101.46	77.59	69.42	57.35	45.48	FALSE
1349	29	37	44	1349	192.71	122.64	103.77	79.35	71.00	58.65	46.52	TRUE
1379	29	37	45	1379	197.00	125.36	106.08	81.12	72.58	59.96	47.55	TRUE
1409	29	38	46	1409	201.29	128.09	108.38	82.88	74.16	61.26	48.59	FALSE
1439	29	38	47	1439	205.57	130.82	110.69	84.65	75.74	62.57	49.62	FALSE
1469	29	39	48	1469	209.86	133.55	113.00	86.41	77.32	63.87	50.66	TRUE
1499	29	39	49	1499	214.14	136.27	115.31	88.18	78.89	65.17	51.69	FALSE
1529	29	39	50	1529	218.43	139.00	117.62	89.94	80.47	66.48	52.72	TRUE
1559	29	40	51	1559	222.71	141.73	119.92	91.71	82.05	67.78	53.76	FALSE
1589	29	40	52	1589	227.00	144.45	122.23	93.47	83.63	69.09	54.79	TRUE
1619	29	40	53	1619	231.29	147.18	124.54	95.24	85.21	70.39	55.83	FALSE
1649	29	41	54	1649	235.57	149.91	126.85	97.00	86.79	71.70	56.86	TRUE
1679	29	41	55	1679	239.86	152.64	129.15	98.76	88.37	73.00	57.90	TRUE
1709	29	42	56	1709	244.14	155.36	131.46	100.53	89.95	74.30	58.93	FALSE
1739	29	42	57	1739	248.43	158.09	133.77	102.29	91.53	75.61	59.97	FALSE
1769	29	42	58	1769	252.71	160.82	136.08	104.06	93.11	76.91	61.00	TRUE
1799	29	43	59	1799	257.00	163.55	138.38	105.82	94.68	78.22	62.03	TRUE
1829	29	43	60	1829	261.29	166.27	140.69	107.59	96.26	79.52	63.07	FALSE
1859	29	43	61	1859	265.57	169.00	143.00	109.35	97.84	80.83	64.10	TRUE
1889	29	44	62	1889	269.86	171.73	145.31	111.12	99.42	82.13	65.14	FALSE
1919	29	44	63	1919	274.14	174.45	147.62	112.88	101.00	83.43	66.17	TRUE
1949	29	44	64	1949	278.43	177.18	149.92	114.65	102.58	84.74	67.21	FALSE
1979	29	45	65	1979	282.71	179.91	152.23	116.41	104.16	86.04	68.24	FALSE
2009	29	45	66	2009	287.00	182.64	154.54	118.18	105.74	87.35	69.28	TRUE
2039	29	45	67	2039	291.29	185.36	156.85	119.94	107.32	88.65	70.31	FALSE

					*fam7 17 and +30 L3 and +7	*fam11 19 and +30 L6 and +11	*fam13 23 and +30 L9 and +13	*fam17 7 and +30 L3 and +17	*fam19 11 and +30 L6 and +19	*fam23 13 and +30 L9 and +23	*fam29 1 and +30 L0 and +29

ps	start	sq root	level 29	*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
2069	29	46	68	2069	295.57	188.09	159.15	121.71	108.89	89.96	71.34	FALSE
2099	29	46	69	2099	299.86	190.82	161.46	123.47	110.47	91.26	72.38	FALSE
2129	29	46	70	2129	304.14	193.55	163.77	125.24	112.05	92.57	73.41	FALSE
2159	29	47	71	2159	308.43	196.27	166.08	127.00	113.63	93.87	74.45	TRUE
2189	29	47	72	2189	312.71	199.00	168.38	128.76	115.21	95.17	75.48	TRUE
2219	29	47	73	2219	317.00	201.73	170.69	130.53	116.79	96.48	76.52	TRUE
2249	29	48	74	2249	321.29	204.45	173.00	132.29	118.37	97.78	77.55	TRUE
2279	29	48	75	2279	325.57	207.18	175.31	134.06	119.95	99.09	78.59	FALSE
2309	29	48	76	2309	329.86	209.91	177.62	135.82	121.53	100.39	79.62	FALSE
2339	29	49	77	2339	334.14	212.64	179.92	137.59	123.11	101.70	80.66	FALSE
2369	29	49	78	2369	338.43	215.36	182.23	139.35	124.68	103.00	81.69	TRUE
2399	29	49	79	2399	342.71	218.09	184.54	141.12	126.26	104.30	82.72	FALSE
2429	29	50	80	2429	347.00	220.82	186.85	142.88	127.84	105.61	83.76	TRUE
2459	29	50	81	2459	351.29	223.55	189.15	144.65	129.42	106.91	84.79	FALSE
2489	29	50	82	2489	355.57	226.27	191.46	146.41	131.00	108.22	85.83	TRUE
2519	29	50	83	2519	359.86	229.00	193.77	148.18	132.58	109.52	86.86	TRUE
2549	29	51	84	2549	364.14	231.73	196.08	149.94	134.16	110.83	87.90	FALSE
2579	29	51	85	2579	368.43	234.45	198.38	151.71	135.74	112.13	88.93	FALSE
2609	29	51	86	2609	372.71	237.18	200.69	153.47	137.32	113.43	89.97	FALSE
2639	29	52	87	2639	377.00	239.91	203.00	155.24	138.89	114.74	91.00	TRUE
2669	29	52	88	2669	381.29	242.64	205.31	157.00	140.47	116.04	92.03	TRUE
2699	29	52	89	2699	385.57	245.36	207.62	158.76	142.05	117.35	93.07	FALSE
2729	29	53	90	2729	389.86	248.09	209.92	160.53	143.63	118.65	94.10	FALSE
2759	29	53	91	2759	394.14	250.82	212.23	162.29	145.21	119.96	95.14	FALSE
2789	29	53	92	2789	398.43	253.55	214.54	164.06	146.79	121.26	96.17	FALSE
2819	29	53	93	2819	402.71	256.27	216.85	165.82	148.37	122.57	97.21	FALSE
2849	29	54	94	2849	407.00	259.00	219.15	167.59	149.95	123.87	98.24	TRUE
2879	29	54	95	2879	411.29	261.73	221.46	169.35	151.53	125.17	99.28	FALSE
2909	29	54	96	2909	415.57	264.45	223.77	171.12	153.11	126.48	100.31	FALSE
2939	29	55	97	2939	419.86	267.18	226.08	172.88	154.68	127.78	101.34	FALSE
2969	29	55	98	2969	424.14	269.91	228.38	174.65	156.26	129.09	102.38	FALSE
2999	29	55	99	2999	428.43	272.64	230.69	176.41	157.84	130.39	103.41	FALSE
3029	29	55	100	3029	432.71	275.36	233.00	178.18	159.42	131.70	104.45	TRUE
3059	29	56	101	3059	437.00	278.09	235.31	179.94	161.00	133.00	105.48	TRUE

*fam7	*fam11	*fam13	*fam17	*fam19	*fam23	*fam29
17 and +30	19 and +30	23 and + 30	7 and + 30	11 and + 30	13 and + 30	1 and + 30
L3 and +7	L6 and + 11	L9 and + 13	L3 and + 17	L6 and +19	L9 and + 23	L0 and + 29

ps	start	sq root	level 29	*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
3089	29	56	102	3089	441.29	280.82	237.62	181.71	162.58	134.30	106.52	FALSE
3119	29	56	103	3119	445.57	283.55	239.92	183.47	164.16	135.61	107.55	FALSE
3149	29	56	104	3149	449.86	286.27	242.23	185.24	165.74	136.91	108.59	FALSE
3179	29	57	105	3179	454.14	289.00	244.54	187.00	167.32	138.22	109.62	TRUE
3209	29	57	106	3209	458.43	291.73	246.85	188.76	168.89	139.52	110.66	FALSE
3239	29	57	107	3239	462.71	294.45	249.15	190.53	170.47	140.83	111.69	FALSE
3269	29	57	108	3269	467.00	297.18	251.46	192.29	172.05	142.13	112.72	TRUE
3299	29	58	109	3299	471.29	299.91	253.77	194.06	173.63	143.43	113.76	FALSE
3329	29	58	110	3329	475.57	302.64	256.08	195.82	175.21	144.74	114.79	FALSE
3359	29	58	111	3359	479.86	305.36	258.38	197.59	176.79	146.04	115.83	FALSE
3389	29	59	112	3389	484.14	308.09	260.69	199.35	178.37	147.35	116.86	FALSE
3419	29	59	113	3419	488.43	310.82	263.00	201.12	179.95	148.65	117.90	TRUE
3449	29	59	114	3449	492.71	313.55	265.31	202.88	181.53	149.96	118.93	FALSE
3479	29	59	115	3479	497.00	316.27	267.62	204.65	183.11	151.26	119.97	TRUE
3509	29	60	116	3509	501.29	319.00	269.92	206.41	184.68	152.57	121.00	TRUE
3539	29	60	117	3539	505.57	321.73	272.23	208.18	186.26	153.87	122.03	FALSE
3569	29	60	118	3569	509.86	324.45	274.54	209.94	187.84	155.17	123.07	FALSE
3599	29	60	119	3599	514.14	327.18	276.85	211.71	189.42	156.48	124.10	FALSE
3629	29	61	120	3629	518.43	329.91	279.15	213.47	191.00	157.78	125.14	TRUE
3659	29	61	121	3659	522.71	332.64	281.46	215.24	192.58	159.09	126.17	FALSE
3689	29	61	122	3689	527.00	335.36	283.77	217.00	194.16	160.39	127.21	TRUE
3719	29	61	123	3719	531.29	338.09	286.08	218.76	195.74	161.70	128.24	FALSE
3749	29	62	124	3749	535.57	340.82	288.38	220.53	197.32	163.00	129.28	TRUE
3779	29	62	125	3779	539.86	343.55	290.69	222.29	198.89	164.30	130.31	FALSE
3809	29	62	126	3809	544.14	346.27	293.00	224.06	200.47	165.61	131.34	TRUE
3839	29	62	127	3839	548.43	349.00	295.31	225.82	202.05	166.91	132.38	TRUE
3869	29	63	128	3869	552.71	351.73	297.62	227.59	203.63	168.22	133.41	FALSE
3899	29	63	129	3899	557.00	354.45	299.92	229.35	205.21	169.52	134.45	TRUE
3929	29	63	130	3929	561.29	357.18	302.23	231.12	206.79	170.83	135.48	FALSE
3959	29	63	131	3959	565.57	359.91	304.54	232.88	208.37	172.13	136.52	FALSE
3989	29	63	132	3989	569.86	362.64	306.85	234.65	209.95	173.43	137.55	FALSE
4019	29	64	133	4019	574.14	365.36	309.15	236.41	211.53	174.74	138.59	FALSE
4049	29	64	134	4049	578.43	368.09	311.46	238.18	213.11	176.04	139.62	FALSE
4079	29	64	135	4079	582.71	370.82	313.77	239.94	214.68	177.35	140.66	FALSE