

*fam7	*fam11	*fam13	*fam17	*fam19	*fam23	*fam29
29 and +30	13 and +30	11 and + 30	19 and + 30	17 and + 30	1 and + 30	7 and + 30
L6 and +7	L4 and + 11	L4 and + 13	L10 and + 17	L10 and +19	L0 and + 23	L6 and + 29

ps	start	sq root	level 23	*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
23	23	3	0	23	3.29	2.09	1.77	1.35	1.21	1.00	0.79	TRUE
53	23	7	1	53	7.57	4.82	4.08	3.12	2.79	2.30	1.83	FALSE
83	23	9	2	83	11.86	7.55	6.38	4.88	4.37	3.61	2.86	FALSE
113	23	10	3	113	16.14	10.27	8.69	6.65	5.95	4.91	3.90	FALSE
143	23	12	4	143	20.43	13.00	11.00	8.41	7.53	6.22	4.93	TRUE
173	23	13	5	173	24.71	15.73	13.31	10.18	9.11	7.52	5.97	FALSE
203	23	14	6	203	29.00	18.45	15.62	11.94	10.68	8.83	7.00	TRUE
233	23	15	7	233	33.29	21.18	17.92	13.71	12.26	10.13	8.03	FALSE
263	23	16	8	263	37.57	23.91	20.23	15.47	13.84	11.43	9.07	FALSE
293	23	17	9	293	41.86	26.64	22.54	17.24	15.42	12.74	10.10	FALSE
323	23	18	10	323	46.14	29.36	24.85	19.00	17.00	14.04	11.14	TRUE
353	23	19	11	353	50.43	32.09	27.15	20.76	18.58	15.35	12.17	FALSE
383	23	20	12	383	54.71	34.82	29.46	22.53	20.16	16.65	13.21	FALSE
413	23	20	13	413	59.00	37.55	31.77	24.29	21.74	17.96	14.24	TRUE
443	23	21	14	443	63.29	40.27	34.08	26.06	23.32	19.26	15.28	FALSE
473	23	22	15	473	67.57	43.00	36.38	27.82	24.89	20.57	16.31	TRUE
503	23	23	16	503	71.86	45.73	38.69	29.59	26.47	21.87	17.34	FALSE
533	23	23	17	533	76.14	48.45	41.00	31.35	28.05	23.17	18.38	TRUE
563	23	24	18	563	80.43	51.18	43.31	33.12	29.63	24.48	19.41	FALSE
593	23	25	19	593	84.71	53.91	45.62	34.88	31.21	25.78	20.45	FALSE
623	23	25	20	623	89.00	56.64	47.92	36.65	32.79	27.09	21.48	TRUE
653	23	26	21	653	93.29	59.36	50.23	38.41	34.37	28.39	22.52	FALSE
683	23	26	22	683	97.57	62.09	52.54	40.18	35.95	29.70	23.55	FALSE
713	23	27	23	713	101.86	64.82	54.85	41.94	37.53	31.00	24.59	TRUE
743	23	27	24	743	106.14	67.55	57.15	43.71	39.11	32.30	25.62	FALSE
773	23	28	25	773	110.43	70.27	59.46	45.47	40.68	33.61	26.66	FALSE
803	23	29	26	803	114.71	73.00	61.77	47.24	42.26	34.91	27.69	TRUE
833	23	29	27	833	119.00	75.73	64.08	49.00	43.84	36.22	28.72	TRUE
863	23	30	28	863	123.29	78.45	66.38	50.76	45.42	37.52	29.76	FALSE
893	23	30	29	893	127.57	81.18	68.69	52.53	47.00	38.83	30.79	TRUE
923	23	31	30	923	131.86	83.91	71.00	54.29	48.58	40.13	31.83	TRUE
953	23	31	31	953	136.14	86.64	73.31	56.06	50.16	41.43	32.86	FALSE
983	23	32	32	983	140.43	89.36	75.62	57.82	51.74	42.74	33.90	FALSE
1013	23	32	33	1013	144.71	92.09	77.92	59.59	53.32	44.04	34.93	FALSE

*fam7	*fam11	*fam13	*fam17	*fam19	*fam23	*fam29
29 and +30	13 and +30	11 and + 30	19 and + 30	17 and + 30	1 and + 30	7 and + 30
L6 and +7	L4 and + 11	L4 and + 13	L10 and + 17	L10 and +19	L0 and + 23	L6 and + 29

ps	start	sq root	level 23	*fam1	*fam7	*fam11	*fam13	*fam17	*fam19	*fam23	*fam29	Factor
				by 1	by 7	by 11	by 13	by 17	by 19	by 23	by 29	
1043	23	33	34	1043	149.00	94.82	80.23	61.35	54.89	45.35	35.97	TRUE
1073	23	33	35	1073	153.29	97.55	82.54	63.12	56.47	46.65	37.00	TRUE
1103	23	33	36	1103	157.57	100.27	84.85	64.88	58.05	47.96	38.03	FALSE
1133	23	34	37	1133	161.86	103.00	87.15	66.65	59.63	49.26	39.07	TRUE
1163	23	34	38	1163	166.14	105.73	89.46	68.41	61.21	50.57	40.10	FALSE
1193	23	35	39	1193	170.43	108.45	91.77	70.18	62.79	51.87	41.14	FALSE
1223	23	35	40	1223	174.71	111.18	94.08	71.94	64.37	53.17	42.17	FALSE
1253	23	36	41	1253	179.00	113.91	96.38	73.71	65.95	54.48	43.21	TRUE
1283	23	36	42	1283	183.29	116.64	98.69	75.47	67.53	55.78	44.24	FALSE
1313	23	37	43	1313	187.57	119.36	101.00	77.24	69.11	57.09	45.28	TRUE
1343	23	37	44	1343	191.86	122.09	103.31	79.00	70.68	58.39	46.31	TRUE
1373	23	37	45	1373	196.14	124.82	105.62	80.76	72.26	59.70	47.34	FALSE
1403	23	38	46	1403	200.43	127.55	107.92	82.53	73.84	61.00	48.38	TRUE
1433	23	38	47	1433	204.71	130.27	110.23	84.29	75.42	62.30	49.41	FALSE
1463	23	39	48	1463	209.00	133.00	112.54	86.06	77.00	63.61	50.45	TRUE
1493	23	39	49	1493	213.29	135.73	114.85	87.82	78.58	64.91	51.48	FALSE
1523	23	39	50	1523	217.57	138.45	117.15	89.59	80.16	66.22	52.52	FALSE
1553	23	40	51	1553	221.86	141.18	119.46	91.35	81.74	67.52	53.55	FALSE
1583	23	40	52	1583	226.14	143.91	121.77	93.12	83.32	68.83	54.59	FALSE
1613	23	40	53	1613	230.43	146.64	124.08	94.88	84.89	70.13	55.62	FALSE
1643	23	41	54	1643	234.71	149.36	126.38	96.65	86.47	71.43	56.66	FALSE
1673	23	41	55	1673	239.00	152.09	128.69	98.41	88.05	72.74	57.69	TRUE
1703	23	42	56	1703	243.29	154.82	131.00	100.18	89.63	74.04	58.72	TRUE
1733	23	42	57	1733	247.57	157.55	133.31	101.94	91.21	75.35	59.76	FALSE
1763	23	42	58	1763	251.86	160.27	135.62	103.71	92.79	76.65	60.79	FALSE
1793	23	43	59	1793	256.14	163.00	137.92	105.47	94.37	77.96	61.83	TRUE
1823	23	43	60	1823	260.43	165.73	140.23	107.24	95.95	79.26	62.86	FALSE
1853	23	43	61	1853	264.71	168.45	142.54	109.00	97.53	80.57	63.90	TRUE
1883	23	44	62	1883	269.00	171.18	144.85	110.76	99.11	81.87	64.93	TRUE
1913	23	44	63	1913	273.29	173.91	147.15	112.53	100.68	83.17	65.97	FALSE
1943	23	44	64	1943	277.57	176.64	149.46	114.29	102.26	84.48	67.00	TRUE
1973	23	45	65	1973	281.86	179.36	151.77	116.06	103.84	85.78	68.03	FALSE
2003	23	45	66	2003	286.14	182.09	154.08	117.82	105.42	87.09	69.07	FALSE
2033	23	45	67	2033	290.43	184.82	156.38	119.59	107.00	88.39	70.10	TRUE

*fam7	*fam11	*fam13	*fam17	*fam19	*fam23	*fam29
29 and +30	13 and +30	11 and + 30	19 and + 30	17 and + 30	1 and + 30	7 and + 30
L6 and +7	L4 and + 11	L4 and + 13	L10 and + 17	L10 and +19	L0 and + 23	L6 and + 29

ps	start	sq root	level 23	*fam1	*fam7	*fam11	*fam13	*fam17	*fam19	*fam23	*fam29	Factor
				by 1	by 7	by 11	by 13	by 17	by 19	by 23	by 29	
2063	23	46	68	2063	294.71	187.55	158.69	121.35	108.58	89.70	71.14	FALSE
2093	23	46	69	2093	299.00	190.27	161.00	123.12	110.16	91.00	72.17	TRUE
2123	23	46	70	2123	303.29	193.00	163.31	124.88	111.74	92.30	73.21	TRUE
2153	23	47	71	2153	307.57	195.73	165.62	126.65	113.32	93.61	74.24	FALSE
2183	23	47	72	2183	311.86	198.45	167.92	128.41	114.89	94.91	75.28	FALSE
2213	23	47	73	2213	316.14	201.18	170.23	130.18	116.47	96.22	76.31	FALSE
2243	23	48	74	2243	320.43	203.91	172.54	131.94	118.05	97.52	77.34	FALSE
2273	23	48	75	2273	324.71	206.64	174.85	133.71	119.63	98.83	78.38	FALSE
2303	23	48	76	2303	329.00	209.36	177.15	135.47	121.21	100.13	79.41	TRUE
2333	23	49	77	2333	333.29	212.09	179.46	137.24	122.79	101.43	80.45	FALSE
2363	23	49	78	2363	337.57	214.82	181.77	139.00	124.37	102.74	81.48	TRUE
2393	23	49	79	2393	341.86	217.55	184.08	140.76	125.95	104.04	82.52	FALSE
2423	23	50	80	2423	346.14	220.27	186.38	142.53	127.53	105.35	83.55	FALSE
2453	23	50	81	2453	350.43	223.00	188.69	144.29	129.11	106.65	84.59	TRUE
2483	23	50	82	2483	354.71	225.73	191.00	146.06	130.68	107.96	85.62	TRUE
2513	23	50	83	2513	359.00	228.45	193.31	147.82	132.26	109.26	86.66	TRUE
2543	23	51	84	2543	363.29	231.18	195.62	149.59	133.84	110.57	87.69	FALSE
2573	23	51	85	2573	367.57	233.91	197.92	151.35	135.42	111.87	88.72	FALSE
2603	23	51	86	2603	371.86	236.64	200.23	153.12	137.00	113.17	89.76	TRUE
2633	23	52	87	2633	376.14	239.36	202.54	154.88	138.58	114.48	90.79	FALSE
2663	23	52	88	2663	380.43	242.09	204.85	156.65	140.16	115.78	91.83	FALSE
2693	23	52	89	2693	384.71	244.82	207.15	158.41	141.74	117.09	92.86	FALSE
2723	23	53	90	2723	389.00	247.55	209.46	160.18	143.32	118.39	93.90	TRUE
2753	23	53	91	2753	393.29	250.27	211.77	161.94	144.89	119.70	94.93	FALSE
2783	23	53	92	2783	397.57	253.00	214.08	163.71	146.47	121.00	95.97	TRUE
2813	23	53	93	2813	401.86	255.73	216.38	165.47	148.05	122.30	97.00	TRUE
2843	23	54	94	2843	406.14	258.45	218.69	167.24	149.63	123.61	98.03	FALSE
2873	23	54	95	2873	410.43	261.18	221.00	169.00	151.21	124.91	99.07	TRUE
2903	23	54	96	2903	414.71	263.91	223.31	170.76	152.79	126.22	100.10	FALSE
2933	23	55	97	2933	419.00	266.64	225.62	172.53	154.37	127.52	101.14	TRUE
2963	23	55	98	2963	423.29	269.36	227.92	174.29	155.95	128.83	102.17	FALSE
2993	23	55	99	2993	427.57	272.09	230.23	176.06	157.53	130.13	103.21	FALSE
3023	23	55	100	3023	431.86	274.82	232.54	177.82	159.11	131.43	104.24	FALSE
3053	23	56	101	3053	436.14	277.55	234.85	179.59	160.68	132.74	105.28	FALSE

*fam7	*fam11	*fam13	*fam17	*fam19	*fam23	*fam29
29 and +30	13 and +30	11 and + 30	19 and + 30	17 and + 30	1 and + 30	7 and + 30
L6 and +7	L4 and + 11	L4 and + 13	L10 and + 17	L10 and +19	L0 and + 23	L6 and + 29

ps	start	sq root	level 23	*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
3083	23	56	102	3083	440.43	280.27	237.15	181.35	162.26	134.04	106.31	FALSE
3113	23	56	103	3113	444.71	283.00	239.46	183.12	163.84	135.35	107.34	TRUE
3143	23	56	104	3143	449.00	285.73	241.77	184.88	165.42	136.65	108.38	TRUE
3173	23	57	105	3173	453.29	288.45	244.08	186.65	167.00	137.96	109.41	TRUE
3203	23	57	106	3203	457.57	291.18	246.38	188.41	168.58	139.26	110.45	FALSE
3233	23	57	107	3233	461.86	293.91	248.69	190.18	170.16	140.57	111.48	FALSE
3263	23	57	108	3263	466.14	296.64	251.00	191.94	171.74	141.87	112.52	TRUE
3293	23	58	109	3293	470.43	299.36	253.31	193.71	173.32	143.17	113.55	FALSE
3323	23	58	110	3323	474.71	302.09	255.62	195.47	174.89	144.48	114.59	FALSE
3353	23	58	111	3353	479.00	304.82	257.92	197.24	176.47	145.78	115.62	TRUE
3383	23	59	112	3383	483.29	307.55	260.23	199.00	178.05	147.09	116.66	TRUE
3413	23	59	113	3413	487.57	310.27	262.54	200.76	179.63	148.39	117.69	FALSE
3443	23	59	114	3443	491.86	313.00	264.85	202.53	181.21	149.70	118.72	TRUE
3473	23	59	115	3473	496.14	315.73	267.15	204.29	182.79	151.00	119.76	TRUE
3503	23	60	116	3503	500.43	318.45	269.46	206.06	184.37	152.30	120.79	FALSE
3533	23	60	117	3533	504.71	321.18	271.77	207.82	185.95	153.61	121.83	FALSE
3563	23	60	118	3563	509.00	323.91	274.08	209.59	187.53	154.91	122.86	TRUE
3593	23	60	119	3593	513.29	326.64	276.38	211.35	189.11	156.22	123.90	FALSE
3623	23	61	120	3623	517.57	329.36	278.69	213.12	190.68	157.52	124.93	FALSE
3653	23	61	121	3653	521.86	332.09	281.00	214.88	192.26	158.83	125.97	TRUE
3683	23	61	122	3683	526.14	334.82	283.31	216.65	193.84	160.13	127.00	TRUE
3713	23	61	123	3713	530.43	337.55	285.62	218.41	195.42	161.43	128.03	FALSE
3743	23	62	124	3743	534.71	340.27	287.92	220.18	197.00	162.74	129.07	TRUE
3773	23	62	125	3773	539.00	343.00	290.23	221.94	198.58	164.04	130.10	TRUE
3803	23	62	126	3803	543.29	345.73	292.54	223.71	200.16	165.35	131.14	FALSE
3833	23	62	127	3833	547.57	348.45	294.85	225.47	201.74	166.65	132.17	FALSE
3863	23	63	128	3863	551.86	351.18	297.15	227.24	203.32	167.96	133.21	FALSE
3893	23	63	129	3893	556.14	353.91	299.46	229.00	204.89	169.26	134.24	TRUE
3923	23	63	130	3923	560.43	356.64	301.77	230.76	206.47	170.57	135.28	FALSE
3953	23	63	131	3953	564.71	359.36	304.08	232.53	208.05	171.87	136.31	FALSE
3983	23	63	132	3983	569.00	362.09	306.38	234.29	209.63	173.17	137.34	TRUE
4013	23	64	133	4013	573.29	364.82	308.69	236.06	211.21	174.48	138.38	FALSE
4043	23	64	134	4043	577.57	367.55	311.00	237.82	212.79	175.78	139.41	TRUE
4073	23	64	135	4073	581.86	370.27	313.31	239.59	214.37	177.09	140.45	FALSE