

Table55\_BIM-GB\_IG

Comparing: Running Differences of (Sqrd Axis #s - sequential PD#s) forms the BIM																														
line	Axis # = x	PD # = x <sup>2</sup>	5	5&7	7	7&11	11	11&13	13	13&17	17	17&19	19	19&23	23	23&29	29	29&31	31	31&37	37	37&41	41	41&43	43	43&47	47	47&53	53	
3	0	0	25	Dups: 5 & 7	49	Dups: 7 & 11	121	Dups: 11 & 13	169	Dups: 13 & 17	289	Dups: 17 & 19	361	Dups: 19 & 23	529	Dups: 23 & 29	841	Dups: 29 & 31	961	Dups: 31 & 37	1369	Dups: 37 & 41	1681	Dups: 41 & 43	1849	Dups: 43 & 47	2209	Dups: 47 & 53	2809	
4	1	1	24		48		120		168		288		360		528		840		960		1368		1680		1848		2208		2808	
5	2	4	21		45		117		165		285		357		525		837		957		1365		1677		1845		2205		2805	
6	3	9	16		40		112		160		280		352		520		832		952		1360		1672		1840		2200		2800	
7	4	16	9		33		105		153		273		345		513		825		945		1353		1665		1833		2193		2793	
8	5	25	25	Dup in Line 4	24		96		144		264		336		504		816		936		1344		1656		1824		2184		2784	
9	6	36			13		85		133		253		325		493		805		925		1333		1645		1813		2173		2773	
10	7	49			49		72	Dup in Line 4	120		240		312		480		792		912		1320		1632		1800		2160		2760	
11	8	64					57	Dup in Line 7	105		225		297		465		777		897		1305		1617		1785		2145		2745	
12	9	81				Dup in Line 6	40		88		208	Dup in Line 6	280		448		760		880		1288		1600		1768		2128		2728	
13	10	100					21		69		189		261		429		741		861		1269		1581		1749		2109		2709	
14	11	121					121		48	Dup in Line 4	168	Dup in Line 10	240		408		720	Dup in Line 4	840		1248		1560		1728		2088		2688	
15	12	144							25		145		217		385		697		817		1225		1537		1705		2065		2665	
16	13	169							169	Dup in Line 10	120		192	Dup in Line 4	360		672	Dup in Line 10	792		1200		1512	Dup in Line 4	1680		2040		2640	
17	14	196									93		165		333		645		765		1173		1485		1653		2013		2613	
18	15	225									64		136		304		616		736		1144		1456		1624		1984		2584	
19	16	256									33		105		273		585		705		1113		1425		1593		1953		2553	
20	17	289									289		72	Dup in Line 14	240		552	Dup in Line 16	672		1080		1392	Dup in Line 14	1560		1920		2520	
21	18	324											37		205		517		637		1045		1357		1525		1885		2485	
22	19	361												361		168	Dup in Line 10	480		600		1008	Dup in Line 10	1320		1488	Dup in Line 4	1848	2448	
23	20	400													129		441		561		969		1281		1449		1809		2409	
24	21	441													88		400		520		928		1240		1408	Dup in Line 12	1768		2368	
25	22	484													45		357		477		885		1197		1365		1725		2325	
26	23	529														529		312		432	Dup in Line 14	840		1152	Dup in Line 22	1320	Dup in Line 16	1680	2280	
27	24	576														265		385		793		1105		1273		1633		2233		
28	25	625															216		336		744		1056		1224		1584	Dup in Line 8	2184	
29	26	676															165		285		693		1005		1173		1533		2133	
30	27	729															112		232		640		952		1120		1480		2080	
31	28	784															57		177		585		897		1065		1425		2025	
32	29	841																841		120		528	Dup in Line 26	840		1008		1368		1968
33	30	900																	61		469		781		949		1309		1909	
34	31	961																		961		408		720		888		1248	Dup in Line 22	1848
35	32	1024																			345		657		825		1185		1785	
36	33	1089																			280		592		760	Dup in Line 30	1120		1720	
37	34	1156																			213		525		693		1053		1653	
38	35	1225																			144		456		624		984	Dup in Line 28	1584	
39	36	1296																			73		385		553		913		1513	
40	37	1369																				1369		312		480		840		1440
41	38	1444																					237		405		765		1365	
42	39	1521																					160		328		688		1288	
43	40	1600																					81		249		609		1209	
44	41	1681																						1681		168		528		1128
45	42	1764																							85		445		1045	
46	43	1849																								1849		360		960
47	44	1936																										273		873
48	45	2025																										184		784
49	46	2116																										93		693
50	47	2209																										2209		600
51	48	2304																												505
52	49	2401																												408
53	50	2500																												309
54	51	2601																												208
55	52	2704																												105
56	53	2809																												2809

Table 55

Every PRIME ( $\geq 3$ ) falls on an Active Row (AR). ARs come in pair sets (ODD—Even—ODD) and they are NEVER  $\pm 3$ . ARs may contain a PRIME, a PPT, both or none. Non-ARs fall between the AR pair sets and are ALWAYS  $\pm 3$ . They are NOT PRIME.

~ Here we compare the two individual ARs of each pair set — providing that it is PRIME, i.e. ARs that are NOT PRIME are NOT listed — with a Duplicates (Dups) Column between. We are looking to see if, indeed, the "Dups" in every PREVIOUS AR are matched in the NEXT AR. True so far.

~ PRIME Gaps result in jumps to the NEXT AR set that has a PRIME member and that often results in comparing the PREVIOUS and NEXT from different AR sets.

~ Formula: IFERROR("Dup in Line "&MATCH(E, D,0), "")

Copyright©2020, Reginald Brooks, Brooks Design. All rights reserved

Table55\_BIM-GB\_JG

Comparing: Running Differences of (Sqrtd Axis #s - sequential PDF#s) forms the BIM

line	Axis # = x	PD # = y	53	53-59	59	59-61	61	61-67	67	67-71	71	71-73	73	73-79	79	79-83	83	83-89	89	89-97	97	97-101	101	101-103	103	103-107	107	107-109	109	109-113	113
3	0	0	2809	Dups: 59 & 61	3481	Dups: 59 & 61	3721	Dups: 61 & 67	4489	Dups: 67 & 71	5041	Dups: 71 & 73	5329	Dups: 73 & 79	6241	Dups: 79 & 83	6880	Dups: 83 & 89	7921	Dups: 89 & 97	9409	Dups: 97-101	10201	Dups: 101-103	10609	Dups: 103-107	11449	Dups: 107-109	11881	Dups: 109-113	12769
4	1	1	2808		3480		3720		4488		5040		5328		6240		6888		7920		9408		10200		10608		11448		11880		12768
5	2	4	2805		3477		3717		4485		5037		5325		6237		6885		7917		9405		10197		10605		11445		11877		12765
6	3	9	2800		3472		3712		4480		5032		5320		6232		6880		7912		9400		10192		10600		11440		11872		12760
7	4	16	2793		3465		3705		4473		5025		5313		6225		6873		7905		9393		10185		10593		11433		11865		12753
8	5	25	2784		3456		3696		4464		5016		5304		6216		6864		7896		9384		10176		10584		11424		11856		12744
9	6	36	2773		3445		3685		4453		5005		5293		6205		6853		7885		9373		10165		10573		11413		11845		12733
10	7	49	2760		3432		3672		4440		4992		5280		6192		6840		7872		9360		10152		10560		11400		11832		12720
11	8	64	2745		3417		3657		4425		4977		5265		6177		6825		7857		9345		10137		10545		11385		11817		12705
12	9	81	2728		3400		3640		4408		4960		5248		6160		6808		7840		9328		10120		10528		11368		11800		12688
13	10	100	2709		3381		3621		4389		4941		5229		6141		6789		7821		9309		10101		10509		11349		11781		12669
14	11	121	2688		3360		3600		4368		4920		5208		6120		6768		7800		9288		10080		10488		11328		11760		12648
15	12	144	2665		3337		3577		4345		4897		5185		6097		6745		7777		9265		10057		10465		11305		11737		12625
16	13	169	2640		3312		3552		4320		4872		5160		6072		6720		7752		9240		10032		10440		11280		11712		12600
17	14	196	2613		3285		3525		4293		4845		5133		6045		6693		7725		9213		10005		10413		11253		11685		12573
18	15	225	2584		3256		3496		4264		4816		5104		6016		6664		7696		9184		9976		10384		11224		11656		12544
19	16	256	2553		3225	Dup in Line 7	3465		4233		4785		5073		5985		6633		7665		9153		9945		10353		11193		11625		12513
20	17	289	2520		3192	Dup in Line 10	3432		4200		4752	Dup in Line 4	5040		5952		6600		7632		9120		9912		10320		11160		11592		12480
21	18	324	2485		3157		3397		4165		4717	Dup in Line 9	5005		5917		6565		7597		9065		9877		10285		11125		11557		12445
22	19	361	2448		3120	Dup in Line 14	3360		4128		4680		4968		5880		6528		7560		9048		9840		10248		11088		11520		12408
23	20	400	2409		3081		3321		4089		4641		4929		5841		6489		7521		9009		9801		10209		11049		11481		12369
24	21	441	2368		3040		3280		4048		4600		4888		5800		6448		7480		8968		9760		10168		11008	Dup in Line 6	11440		12328
25	22	484	2325		2997		3237		4005		4557	Dup in Line 17	4845		5757		6405		7437		8925		9717		10125		10965		11397		12285
26	23	529	2280		2952	Dup in Line 20	3192		3960		4512		4800		5712		6360		7392		8880		9672	Dup in Line 14	10080		10920		11352		12240
27	24	576	2233		2905		3145		3913		4465		4753		5665		6313		7345		8833		9625		10033		10873	Dup in Line 15	11305		12193
28	25	625	2184		2856		3096		3864		4416		4704		5616		6264		7296		8784		9576		9984		10824		11256		12144
29	26	676	2133	Dup in Line 5	2805		3045		3813		4365		4653		5565		6213		7245		8733		9525		9933		10773		11205		12093
30	27	729	2080		2752		2992		3760		4312	Dup in Line 24	4600		5512	Dup in Line 12	6160		7192		8680		9472		9880		10720		11152		12040
31	28	784	2025		2697		2937	Dup in Line 7	3705		4257		4545		5457		6105		7137		8625		9417		9825		10665		11097		11985
32	29	841	1968	Dup in Line 16	2640		2880		3648	Dup in Line 20	4200		4488		5400		6048		7080		8568	Dup in Line 10	9360		9768	Dup in Line 4	10608		11040		11928
33	30	900	1909		2581		2821		3589		4141		4429		5341		5989		7021		8509		9301		9709		10549		10981		11869
34	31	961	1848	Dup in Line 20	2520		2760		3528		4080		4368	Dup in Line 10	5280		5928		6960		8448	Dup in Line 16	9240		9648	Dup in Line 14	10488	Dup in Line 26	10920		11808
35	32	1024	1785		2457	Dup in Line 31	2697	Dup in Line 19	3465		4017		4305		5217		5865		6897		8385		9177		9585		10425		10857		11745
36	33	1089	1720		2392		2632		3400		3952		4240		5152	Dup in Line 24	5800		6832		8320		9112		9520		10360		10792		11680
37	34	1156	1653	Dup in Line 25	2325		2565		3333		3885		4173		5085		5733		6765		8253		9045		9453		10293		10725		11613
38	35	1225	1584		2256		2496		3264		3816		4104		5016		5664		6696		8184		8976		9384		10224		10656		11544
39	36	1296	1513		2185		2425		3193		3745		4033		4945		5593		6625		8113		8905		9313		10153		10585		11473
40	37	1369	1440		2112		2352		3120		3672		3960		4872		5520		6552		8040		8832	Dup in Line 34	9240	Dup in Line 26	10080		10512		11400
41	38	1444	1365		2037		2277	Dup in Line 29	3045		3597	Dup in Line 37	3885		4797		5445		6477		7965		8757		9165		10005		10437		11325
42	39	1521	1288		1960		2200		2968		3520		3808		4720		5368		6400		7888	Dup in Line 30	8680		9088		9928	Dup in Line 36	10360		11248
43	40	1600	1209		1881		2121		2889		3441		3729		4641		5289		6321		7809		8601		9009		9849		10281		11169
44	41	1681	1128		1800		2040		2808		3360		3648		4560		5208		6240		7728		8520		8928	Dup in Line 32	9768		10200		11088
45	42	1764	1045		1717		1957		2725		3277		3565		4477		5125		6157		7645		8437		8845		9685		10117		11005
46	43	1849	960		1632		1872		2640		3192		3480		4392		5040		6072	Dup in Line 22	7560		8352		8760		9600		10032	Dup in Line 34	10920
47	44	1936	873		1545		1785		2553		3105		3393	Dup in Line 35	4305		4953		5985		7473		8265		8673		9513		9945		10833
48	4																														

Table65: BMM-GB\_IG

Line	AR #	FD #	FD # <sup>2</sup>	113	113-127	127	127-131	131	131-137	137	137-139	139	139-149	149	149-151	151	151-157	157	157-163	163	163-167	167	167-173	173	173-179	179	179-181	181-191	191	191-193	193
Comparing Running Differences of (Dup'd ARs vs. sequential FDs) forms the BMM																															
0	0	12768	Dups: 113-127	16126	17181	Dups: 127-131	17181	Dups: 131-137	18768	Dups: 137-139	19320	19848	20201	Dups: 149-151	22801	Dups: 151-157	24648	Dups: 157-163	26508	Dups: 163-167	28388	Dups: 167-173	29928	Dups: 173-179	32041	Dups: 179-181	32766	Dups: 181-191	36481	Dups: 191-193	37248
1	1	12768		16126		17181		18768		19320		20201		22801		24648		26508		28388		29928		32041		32766		36481		37248	
2	4	12765	16125	17157	18765	19317	22197	22797	24645	26505	27885	29925	32037	32757	36477	37245															
3	9	12753	16113	17145	18753	19305	22185	22785	24633	26503	27873	29913	32025	32745	36465	37233															
4	16	12744	16104	17136	18744	19296	22176	22776	24624	26544	27864	29904	32016	32736	36456	37224															
5	25	12733	16093	17125	18733	19285	22165	22765	24613	26533	27853	29893	32005	32725	36445	37213															
6	36	12720	16080	17112	18720	19272	22152	22752	24600	26520	27840	29880	31992	32712	36432	37200															
7	49	12705	16065	17097	18705	19257	22137	22737	24585	26505	27825	29865	31977	32697	36417	37185															
8	64	12688	16048	17080	18688	19240	22120	22720	24568	26488	27808	29848	31960	32680	36400	37168															
9	81	12669	16029	17061	18669	19221	22101	22701	24549	26469	27789	29829	31941	32661	36381	37149															
10	100	12648	16008	17040	18648	19200	22080	22680	24528	26448	27768	29808	31920	32640	36360	37128															
11	121	12625	15985	17017	18625	19177	22057	22657	24505	26425	27745	29785	31897	32617	36337	37105															
12	144	12600	15960	16992	18600	19152	22032	22632	24480	26400	27720	29760	31872	32592	36312	37080															
13	169	12573	15933	16966	18573	19125	22005	22605	24453	26373	27693	29733	31845	32566	36285	37053															
14	196	12544	15904	16936	18544	19096	21976	22576	24424	26344	27664	29704	31816	32536	36256	37024															
15	225	12513	15873	16906	18513	19065	21945	22545	24393	26313	27633	29673	31785	32505	36223	36993															
16	256	12480	15840	16872	18480	19032	21912	22512	24360	26280	27600	29640	31752	32472	36192	36960															
17	289	12445	15805	16837	18445	18997	21877	22477	24325	26245	27565	29605	31717	32437	36157	36925															
18	324	12408	15768	16800	18408	18960	21840	22440	24288	26208	27538	29568	31680	32400	36120	36888															
19	361	12369	15729	16761	18369	18921	21801	22401	24249	26169	27489	29529	31641	32361	36081	36849															
20	400	12328	15688	16720	18328	18880	21760	22360	24208	26128	27448	29488	31600	32320	36040	36808															
21	441	12283	15645	16677	18285	18837	21717	22317	24165	26085	27405	29445	31557	32277	35997	36765															
22	484	12240	15600	16632	18240	18792	21672	22272	24120	26040	27360	29400	31512	32232	35952	36720															
23	529	12193	15553	16585	18193	18745	21625	22225	24073	25993	27313	29353	31465	32185	35905	36673															
24	576	12144	15504	16536	18144	18696	21576	22176	24024	25944	27264	29304	31416	32136	35856	36624															
25	625	12093	15453	16485	18093	18645	21525	22125	23973	25893	27213	29253	31365	32085	35805	36573															
26	676	12040	15400	16432	18040	18592	21472	22072	23920	25840	27160	29200	31312	32032	35752	36520															
27	729	11985	15345	16377	17985	18537	21417	22017	23865	25785	27105	29145	31257	31977	35697	36465															
28	784	11928	15288	16320	17928	18480	21360	21960	23808	25728	27048	29088	31200	31920	35640	36408															
29	841	11869	15229	16261	17869	18421	21301	21901	23749	25669	26989	29029	31141	31861	35581	36349															
30	900	11808	15168	16200	17808	18360	21240	21840	23688	25608	26928	28968	31080	31800	35520	36288															
31	961	11745	15105	16137	17745	18297	21177	21777	23625	25545	26865	28905	31017	31737	35457	36225															
32	1024	11680	15040	16072	17680	18232	21112	21712	23560	25480	26800	28840	30952	31672	35392	36160															
33	1089	11613	14973	16005	17613	18165	21045	21645	23493	25413	26733	28773	30885	31605	35325	36093															
34	1156	11544	14904	15936	17544	18096	20976	21576	23424	25344	26664	28704	30816	31536	35256	36024															
35	1225	11473	14833	15866	17473	18025	20905	21505	23353	25273	26593	28633	30745	31465	35185	35953															
36	1296	11400	14760	15792	17400	17952	20832	21432	23280	25200	26520	28560	30672	31392	35112	35880															
37	1369	11325	14685	15717	17325	17877	20757	21357	23205	25125	26445	28485	30597	31317	35037	35805															
38	1444	11248	14608	15640	17248	17800	20680	21280	23128	25048	26368	28408	30520	31240	34960	35728															
39	1521	11169	14529	15561	17169	17721	20601	21201	23049	24969	26289	28329	30441	31161	34881	35649															
40	1600	11088	14448	15480	17088	17640	20520	21120	22968	24888	26208	28248	30360	31080	34800	35568															
41	1681	11005	14365	15397	17005	17557	20437	21037	22885	24805	26125	28165	30277	30997	34717	35485															
42	1764	10920	14280	15312	16920	17472	20352	20952	22800	24720	26040	28080	30192	30912	34632	35400															
43	1849	10833	14193	15225	16833	17385	20265	20865	22713	24633	25953	27993	30105	30825	34545	35313															
44	1936	10744	14104	15136	16744	17296	20176	20776	22624	24544	25864	27904	30016	30736	34456	35224															
45	2025	10653	14013	15045	16653	17205	20085	20685	22533	24453	25773	27813	29925	30645	34365	35133															
46	2116	10560	13920	14952	16560	17112	19992	20592	22440	24360	25680	27720	29832	30552	34272	35040															
47	2209	10465	13825	14857	16465	17017	19897	20497	22345	24265	25585	27625	29737	30457	34177	34945															
48	2304	10368	13728	14760	16368	16920	19800	20400	22248	24168	25488	27528	29640	30360	34080	34848															
49	2401	10269	13629	14661	16269	16821	19701	20301	22149	24069	25389	27429	29541	30261	33981	34749															
50	2500	10168	13528	14560	16168	16720	19600	20200	22048	23968	25288	27328	29440	30160	33880	34648															
51	2601	10065	13425	14457	16065	16617	19497	20097	21949	23869	25185	27225	29337	30057	33777	34545															
52	2704	9960	13320	14352	15960	16512	19392	20000	21840	23790	25080	27120	29232	29952	33672	34440															
53	2809	9853	13213	14245	15853	16405	19285	19885	21733	23693	24973	27013	29125	29845	33565	34333															
54	2916	9744	13104	14136	15744	16296	19176	19776	21624	23544	24864	26904	29016	29736	33456	34224															
55	3025	9633	12993	14025	15633	16185	19065	19665	21465	23433	24753	26813	28905	29625	33345	34113															
56	3136	9520	12880	13912	15520	16072	18952	19552	21300	23320	24640	26700	28800	29512	33232	34000															
57	3249	9405	Dup in Line 5	13765	13797	15405	15957	Dup in Line 25	18837	19437	21265	Dup in Line 41	23205	24525	26565	28677	29597	33117	33865												
58	3364	9298	Dup in Line 14	12648	13680	15296	15840	18720	19320	21168	23096	24408	26448	28448	29460	28560	33000	33768													
59	3481	9189	12529	13561	15196	15721	18601	19201	21049	22999	24289	26329	28341	29161	32881	33649															
60	3600	9048	Dup in Line 22	12428	13440	15040	15600	Dup in Line 32	18480	19080	20928	24168	Dup in Line 44	26248	28320	29440	Dup in Line 4	32760	33528												
61	3721	8925	Dup in Line 25	12285	13317	14825	15477	18337	18637	20805	22725	24245	26145	28197	28917	32637	33405														
62	3844	8800	12160	13192	14700	15332	Dup in Line 36	18232	18532	20680	22600	24080	26020	28020	28792	Dup in Line 60	32512	33280													
63	3969	8673	12033	13065	14673	15225	18105	18705	20553	22473	23953	27945	28865	29625	32385	33153															
64	4096	8544	11904	12936	14544	15096	17976	18576	20424	22344	23864	27816	28736	29526	32256	33024															
65	4225	8413	11773	12805	14413	14965	17845	18445	20293	22213	23733	27673	28645	29405	32125	32893															
66	4356	8280	11640	12672	14280	14832	17712	18312	20160	22080	23600	27540	28520	29300	31992	Dup in Line 64	32760	32760													
67	4489	8145	11505	12537	14145	14697	17577	181																							