

Table31_RunningDifferencesof(SqrdAxis#s-seqPD#s)

Running Differences of (Sqrd Axis #s - sequential PD#s) forms the BIM									
line	Axis # = x	PD # = x ²	1	4	9	16	25	36	
0	0	0	-1	-4	-9	-16	-25	-36	
1	1	1	0	-3	-8	-15	-24	-35	
2	2	4	3	0	-5	-12	-21	-32	
3	3	9	8	5	0	-7	-16	-27	
4	4	16	15	12	7	0	-9	-20	
5	5	25	24	21	16	9	0	-11	
6	6	36	35	32	27	20	11	0	

Table 31

To grow PD Col, select and expand to the bottom and then fill left column by autofill, PD column will auto fill from this

\$'PD # = x2'-D\$2 is formula for expanding Columns,drag across to autofill formula on grid. Drag down to autofill remaining cells below.

Here the resulting PD=Blue 0. Replace these with the actual PD values from Col. C.

One can make a 200x200 BIM, by adding columns out to x² - 40000, i.e., Axis Column 200.

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Table31_RunningDifferencesof(SqrdAxis#s-seqPD#s)

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line	Axis # = x	PD # = x ²	49	64	81	100	121	144
0	0	0	-49	-64	-81	-100	-121	-144
1	7	49	0	-15	-32	-51	-72	-95
2	8	64	15	0	-17	-36	-57	-80
3	9	81	32	17	0	-19	-40	-63
4	10	100	51	36	19	0	-21	-44
5	11	121	72	57	40	21	0	-23
6	12	144	95	80	63	44	23	0

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line	Axis # = x	PD # = x ²	1	4	9	16	25	36
0	0	0	-1	-4	-9	-16	-25	-36
1	28	784	783	780	775	768	759	748
2	29	841	840	837	832	825	816	805
3	30	900	899	896	891	884	875	864
4	31	961	960	957	952	945	936	925
5	32	1024	1023	1020	1015	1008	999	988
6	33	1089	1088	1085	1080	1073	1064	1053
Table 31	<p>To grow PD Col, select and expand to the bottom and then fill left column by autofill, PD column will auto fill from this</p> <p>\$'PD # = x2'-D\$2 is formula for expanding Columns,drag across to autofill formula on grid. Drag down to autofill remaining cells below.</p> <p>Here the resulting PD=Blue 0. Replace these with the actual PD values from Col. C.</p> <p>One can make a 200x200 BIM, by adding columns out to x² - 40000, i.e., Axis Column 200.</p> <p>Copyright©2018, Reginald Brooks, Brooks Design. All rights reserved</p>							

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line	Axis # = x	PD # = x ²	1	4	9	16	25	36	49	64	81	100	121	144	169	196	225	256	289	324	361	400	441	484	529	576	625	676	729	784	841	900	961	1024	1089
0	0	0	-1	-4	-9	-16	-25	-36	-49	-64	-81	-100	-121	-144	-169	-196	-225	-256	-289	-324	-361	-400	-441	-484	-529	-576	-625	-676	-729	-784	-841	-900	-961	-1024	-1089
1	28	784	783	780	775	768	759	748	735	720	703	684	663	640	615	588	559	528	495	460	423	384	343	300	255	208	159	108	55	0	-57	-116	-177	-240	-305
2	29	841	840	837	832	825	816	805	792	777	760	800	720	697	672	645	616	585	552	517	480	441	400	357	312	265	216	165	112	57	0	-59	-120	-183	-248
3	30	900	899	896	891	884	875	864	851	836	819	800	779	756	731	704	675	644	611	576	539	500	459	416	371	324	275	224	171	116	59	0	-61	-124	-189
4	31	961	960	957	952	945	936	925	912	897	880	861	840	817	792	765	736	705	672	637	600	561	520	477	432	385	336	285	232	177	120	61	0	-63	-128
5	32	1024	1023	1020	1015	1008	999	988	975	960	943	924	903	880	855	828	799	768	735	700	663	624	583	540	495	448	399	348	295	240	183	124	63	0	-65
6	33	1089	1088	1085	1080	1073	1064	1053	1040	1025	1008	989	968	945	920	893	864	833	800	765	728	689	648	605	560	513	464	413	360	305	248	189	128	65	0
Table 31	<p>To grow PD Col, select and expand to the bottom and then fill left column by autofill, PD column will auto fill from this</p> <p>\$'PD # = x2'-D\$2 is formula for expanding Columns,drag across to autofill formula on grid. Drag down to autofill remaining cells below.</p> <p>Here the resulting PD=Blue 0. Replace these with the actual PD values from Col. C.</p> <p>One can make a 200x200 BIM, by adding columns out to x² - 40000, i.e., Axis Column 200.</p> <p>Copyright©2018, Reginald Brooks, Brooks Design. All rights reserved</p>																																		

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line	Axis # = x	PD # = x ²																																			
0	0	0	-1	-4	-9	-16	-25	-36	-49	-64	-81	-100	-121	-144	-169	-196	-225	-256	-289	-324	-361	-400	-441	-484	-529	-576	-625	-676	-729	-784	-841	-900	-961	-1024	-1089		
1	1	1	1	-3	-8	-15	-24	-35	-48	-63	-80	-99	-120	-143	-168	-195	-224	-255	-288	-323	-360	-399	-440	-483	-528	-575	-624	-675	-728	-783	-840	-899	-960	-1023	-1088		
2	2	4	3	4	-5	-12	-21	-32	-45	-60	-77	-96	-117	-140	-165	-192	-221	-252	-285	-320	-357	-396	-437	-480	-525	-572	-621	-672	-725	-780	-837	-896	-957	-1020	-1085		
3	3	9	8	5	9	-7	-16	-27	-40	-55	-72	-91	-112	-135	-160	-187	-216	-247	-280	-315	-352	-391	-432	-475	-520	-567	-616	-667	-720	-775	-832	-891	-952	-1015	-1080		
4	4	16	15	12	7	16	-9	-20	-33	-48	-65	-84	-105	-128	-153	-180	-209	-240	-273	-308	-345	-384	-425	-468	-513	-560	-609	-660	-713	-768	-825	-884	-945	-1008	-1073		
5	5	25	24	21	16	9	25	-11	-24	-39	-56	-75	-96	-119	-144	-171	-200	-231	-264	-299	-336	-375	-416	-459	-504	-551	-600	-651	-704	-759	-816	-875	-936	-999	-1064		
6	6	36	35	32	27	20	11	36	-13	-28	-45	-64	-85	-108	-133	-160	-189	-220	-253	-288	-325	-364	-405	-448	-493	-540	-589	-640	-693	-748	-805	-864	-925	-988	-1053		
7	7	49	48	45	40	33	24	13	49	-15	-32	-51	-72	-95	-120	-147	-176	-207	-240	-275	-312	-351	-392	-435	-480	-527	-576	-627	-680	-735	-792	-851	-912	-975	-1040		
8	8	64	63	60	55	48	39	28	15	64	-17	-36	-57	-80	-105	-132	-161	-192	-225	-260	-297	-336	-377	-420	-465	-512	-561	-612	-665	-720	-777	-836	-897	-960	-1025		
9	9	81	80	77	72	65	56	45	32	17	81	-19	-40	-63	-88	-115	-144	-175	-208	-243	-280	-319	-360	-403	-448	-495	-544	-595	-648	-703	-760	-819	-880	-943	-1008		
10	10	100	99	96	91	84	75	64	51	36	19	100	-21	-44	-69	-96	-125	-156	-189	-224	-261	-300	-341	-384	-429	-476	-525	-576	-629	-684	-741	-800	-861	-924	-989		
11	11	121	120	117	112	105	96	85	72	57	40	21	121	-23	-48	-75	-104	-135	-168	-203	-240	-279	-320	-363	-408	-455	-504	-555	-608	-663	-720	-779	-840	-903	-968		
12	12	144	143	140	135	128	119	108	95	80	63	44	23	144	-25	-52	-81	-112	-145	-180	-217	-256	-297	-340	-385	-432	-481	-532	-585	-640	-697	-756	-817	-880	-945		
13	13	169	168	165	160	153	144	133	120	105	88	69	48	25	169	-27	-56	-87	-120	-155	-192	-231	-272	-315	-360	-407	-456	-507	-560	-615	-672	-731	-792	-855	-920		
14	14	196	195	192	187	180	171	160	147	132	115	96	75	52	27	196	-29	-60	-93	-128	-165	-204	-245	-288	-333	-380	-429	-480	-533	-588	-645	-704	-765	-828	-893		
15	15	225	224	221	216	209	200	189	176	161	144	125	104	81	56	29	225	-31	-64	-99	-136	-175	-216	-259	-304	-351	-400	-451	-504	-559	-616	-675	-736	-799	-864		
16	16	256	255	252	247	240	231	220	207	192	175	156	135	112	87	60	31	256	-33	-68	-105	-144	-185	-228	-273	-320	-369	-420	-473	-528	-585	-644	-705	-768	-833		
17	17	289	288	285	280	273	264	253	240	225	208	189	168	145	120	93	64	33	289	-35	-72	-111	-152	-195	-240	-287	-336	-387	-440	-495	-552	-611	-672	-735	-800		
18	18	324	323	320	315	308	299	288	275	260	243	224	203	180	155	128	99	68	35	324	-37	-76	-117	-160	-205	-252	-301	-352	-405	-460	-517	-576	-637	-700	-765		
19	19	361	360	357	352	345	336	325	312	297	280	261	240	217	192	165	136	105	72	37	361	-39	-80	-123	-168	-215	-264	-315	-368	-423	-480	-539	-600	-663	-728		
20	20	400	399	396	391	384	375	364	351	336	319	300	279	256	231	204	175	144	111	76	39	400	-41	-84	-129	-176	-225	-276	-329	-384	-441	-500	-561	-624	-689		
21	21	441	440	437	432	425	416	405	392	377	360	341	320	297	272	245	216	185	152	117	80	41	441	-43	-88	-135	-184	-235	-288	-343	-400	-459	-520	-583	-648		
22	22	484	483	480	475	468	459	448	435	420	403	384	363	340	315	288	259	228	195	160	123	84	43	484	-45	-92	-141	-192	-245	-300	-357	-416	-477	-540	-605		
23	23	529	528	525	520	513	504	493	480	465	448	429	408	385	360	333	304	273	240	205	168	129	88	45	529	-47	-96	-147	-200	-255	-312	-371	-432	-495	-560		
24	24	576	575	572	567	560	551	540	527	512	495	476	455	432	407	380	351	320	287	252	215	176	135	92	47	576	-49	-100	-153	-208	-265	-324	-385	-448	-513		
25	25	625	624	621	616	609	600	589	576	561	544	525	504	481	456	429	400	369	336	301	264	225	184	141	96	49	625	-51	-104	-159	-216	-275	-336	-399	-464		
26	26	676	675	672	667	660	651	640	627	612	595	576	555	532	507	480	451	420	387	352	315	276	235	192	147	100	51	676	-53	-108	-165	-224	-285	-348	-413		
27	27	729	728	725	720	713	704	693	680	665	648	629	608	585	560	533	504	473	440	405	368	329	288	245	200	153	104	53	729	-55	-112	-171	-232	-295	-360		
28	28	784	783	780	775	768	759	748	735	720	703	684	663	640	615	588	559	528	495	460	423	384	343	300	255	208	159	108	55	784	-57	-116	-177	-240	-305		
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31	31	961	960	957	952	945	936	925	912	897	880	861	840	817	792	765	736	705	672	637	600	561	520	477	432	385	336	285	232	177	120	61	961	-63	-128		
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33	33	1089	1088	1085	1080	1073	1064	1053	1040	1025	1008	989	968	945	920	893	864	833	800	765	728	689	648	605	560	513	464	413	360	305	248	189	128	65	1089		
34	34	1156																																			

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