

Table 107b Make_BIM_different Axis: Prime Diagonal (PD)

Table 107 Make BIM with different Axis: Prime Diagonal (PD)																						
line	Axis # = x	PD	1	4	9	16	25	36	49	64	81	100	121	144	169	196	225	256	289	324	361	400
0	0	0	-1	-16	-81	-256	-625	-1296	-2401	-4096	-6561	-10000	-14641	-20736	-28561	-38416	-50625	-65536	-83521	-104976	-130321	-160000
1	1	1	1	-15	-80	-255	-624	-1295	-2400	-4095	-6560	-9999	-14640	-20735	-28560	-38415	-50624	-65535	-83520	-104975	-130320	-159999
2	4	16	15	16	-65	-240	-609	-1280	-2385	-4080	-6545	-9984	-14625	-20720	-28545	-38400	-50609	-65520	-83505	-104960	-130305	-159984
3	9	81	80	65	81	-175	-544	-1215	-2320	-4015	-6480	-9919	-14560	-20655	-28480	-38335	-50544	-65455	-83440	-104895	-130240	-159919
4	16	256	255	240	175	256	-369	-1040	-2145	-3840	-6305	-9744	-14385	-20480	-28305	-38160	-50369	-65280	-83265	-104720	-130065	-159744
5	25	625	624	609	544	369	625	-671	-1776	-3471	-5936	-9375	-14016	-20111	-27936	-37791	-50000	-64911	-82896	-104351	-129696	-159375
6	36	1296	1295	1280	1215	1040	671	1296	-1105	-2800	-5265	-8704	-13345	-19440	-27265	-37120	-49329	-64240	-82225	-103680	-129025	-158704
7	49	2401	2400	2385	2320	2145	1776	1105	2401	-1695	-4160	-7599	-12240	-18335	-26160	-36015	-48224	-63135	-81120	-102575	-127920	-157599
8	64	4096	4095	4080	4015	3840	3471	2800	1695	4096	-2465	-5904	-10545	-16640	-24465	-34320	-46529	-61440	-79425	-100880	-126225	-155904
9	81	6561	6560	6545	6480	6305	5936	5265	4160	2465	6561	-3439	-8080	-14175	-22000	-31855	-44064	-58975	-76960	-98415	-123760	-153439
10	100	10000	9999	9984	9919	9744	9375	8704	7599	5904	3439	10000	-4641	-10736	-18561	-28416	-40625	-55536	-73521	-94976	-120321	-150000
11	121	14641	14640	14625	14560	14385	14016	13345	12240	10545	8080	4641	14641	-6095	-13920	-23775	-35984	-50895	-68880	-90335	-115680	-145359
12	144	20736	20735	20720	20655	20480	20111	19440	18335	16640	14175	10736	6095	20736	-7825	-17680	-29889	-44800	-62785	-84240	-109585	-139264
13	169	28561	28560	28545	28480	28305	27936	27265	26160	24465	22000	18561	13920	7825	28561	-9855	-22064	-36975	-54960	-76415	-101760	-131439
14	196	38416	38415	38400	38335	38160	37791	37120	36015	34320	31855	28416	23775	17680	9855	38416	-12209	-27120	-45105	-66560	-91905	-121584
15	225	50625	50624	50609	50544	50369	50000	49329	48224	46529	44064	40625	35984	29889	22064	12209	50625	-14911	-32896	-54351	-79696	-109375
16	256	65536	65535	65520	65455	65280	64911	64240	63135	61440	58975	55536	50895	44800	36975	27120	14911	65536	-17985	-39440	-64785	-94464
17	289	83521	83520	83505	83440	83265	82896	82225	81120	79425	76960	73521	68880	62785	54960	45105	32896	17985	83521	-21455	-46800	-76479
18	324	104976	104975	104960	104895	104720	104351	103680	102575	100880	98415	94976	90335	84240	76415	66560	54351	39440	21455	104976	-25345	-55024
19	361	130321	130320	130305	130240	130065	129696	129025	127920	126225	123760	120321	115680	109585	101760	91905	79696	64785	46800	25345	130321	-29679
20	400	160000	159999	159984	159919	159744	159375	158704	157599	155904	153439	150000	145359	139264	131439	121584	109375	94464	76479	55024	29679	160000

Table 107b Make BIM different Axis.
 To grow PD Col, select and expand to the bottom and then fill left column by autofill, PD column will auto fill from this
 $\$PD \# = x^2 - 16$ is formula for expanding Columns, must change 16 \rightarrow 25,36,49,... to fill out the grid.
 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 $x^2 - 40000$, i.e., Axis Column 200.
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