Table127: [(x+z)² -4PN]-1/24 and x+z_+1/24

line #	p	x	y	z	(x+z)²	xz=PN	4PN	y² (GREEN) or z² (BLUE)	z² -1/24	(x+z+1)/24	2PN/2 to ODD=y
1	2	2	1	3	25	6	24	1			3
2	3	4	3	7	121	28	112	9		0.5	7
3		8	7	15	529	120	480	49	2	1	15
4	5	16	15	31	2209	496	1984	225	9.33333333333333	2	31
5		32	31	63	9025	2016	8064	961	40	4	63
6	7	64	63	127	36481	8128	32512	3969	165.333333333333	8	127
7		128	127	255	146689	32640	130560	16129	672	16	255
8		256	255	511	588289	130816	523264	65025	2709.33333333333	32	511
9		512	511	1023	2356225	523776	2095104	261121	10880	64	1023
10		1024	1023	2047	9431041	2096128	8384512	1046529	43605.3333333333	128	2047
11		2048	2047	4095	37736449	8386560	33546240	4190209	174592	256	4095
12	13	4096	4095	8191	150970369	33550336	134201344	16769025	698709.333333333	512	8191
13		8192	8191	16383	603930625	134209536	536838144	67092481	2795520	1024	16383
14		16384	16383	32767	2415820801	536854528	2147418112	268402689	11183445.3333333	2048	32767
15		32768	32767	65535	9663479809	2147450880	8589803520	1073676289	44736512	4096	65535
16	17	65536	65535	131071	38654312449	8589869056	34359476224	4294836225	178951509.333333	8192	131071
17		131072	131071	262143	154618036225	34359607296	137438429184	17179607041	715816960	16384	262143
18	19	262144	262143	524287	618473717761	137438691328	549754765312	68718952449	2863289685.33333	32768	524287
19		524288	524287	1048575	2473893016769	549755289600	2199021158400	274876858369	11453202432	65536	1048575
20		1048576	1048575	2097151	9895598358529	2199022206976	8796088827904	1099509530625	45812897109.3333	131072	2097151
21		2097152	2097151	4194303	39582406017025	8796090925056	35184363700224	4398042316801	183251763200	262144	4194303
22		4194304	4194303	8388607	158329649233921	35184372088832	140737471578112	17592177655809	733007402325.333	524288	8388607
23		8388608	8388607	16777215	633318647267329	140737479966720	562949953866880	70368727400449	2932030308352	1048576	16777215
24		16777216	16777215	33554431	2533274689732610	562949936644096	2251799746576380	281474943156230	11728122631509.5	2097152	33554431
25		33554432	33554431	67108863	10133099896025700	2251799780130820	9007199120523280	1125899839733720		4194304	67108863.0000001
26		67108864	67108863	134217727	40532396243681300	9007199187632130	36028796750528500	4503599493152800		8388608	134217727
27		134217728	134217727	268435455	162129586578003100	36028796884746200	144115188753898500	18014398241046000		16777216	268435455
28		268435456	268435455	536870911	648518346473073900	144115188780742000	576460751229968000	72057593501059000		33554432	536870910.999998
29		536870912	536870911	1073741823	2594073382144180000	576460751766555000	2305843009706621000	288230375077979000		67108864	1073741823
30	31	1073741824	1073741823	2147483647	10376293535019200	2305843009813399500	9223372032559800000	1152921504459400000		134217728	2147483647
31		2147483648	2147483647	4294967295	41505174152961600	9223372034707292000	36893488138829200	4611686014132000000		268435456	4294967295
32		4294967296	4294967295	8589934591	166020696663716000	36893488143124100	147573952572249600	18446744065120000000		536870912	8589934590.99999
33		8589934592	8589934591	17179869183	664082786602004000	147573952581086000	590295810324344000	73786976277660000000		1073741824	17179869182.999
34		17179869184	17179869183	34359738367	2656331146511100000	590295810341526000	2361183241366100000	295147905145000000000		2147483648	34359738367
35		34359738368	34359738367	68719476735	10625324586250500000	2361183241400460000	9444732965601840000	1180591620648660000000		4294967296	68719476734.9999
36		68719476736	68719476735	137438953471	42501298345414500000	9444732965670570000	37778931862682300000	4722366482732200000000		8589934592	137438953471
37		137438953472	137438953471	274877906943	170005193382483000000	37778931862819970000000	151115727451279000000	18889465931204000000000		17179869184	274877906943
38		274877906944	274877906943	549755813887	680020773531580000000	151115727451554000000	604462909806216000000	75557863725364000000000		34359738368	549755813887.001
39		549755813888	549755813887	1099511627775	2720083094129620000000	604462909806765000000	2417851639229760000000	302231454902560000000000		68719476736	1099511627775
40		1099511627776	1099511627775	2199023255551	10880332376520100000000	2417851639228166000000	9671406556916260000000	1208925819614260000000000		137438953472	2199023255551
41		2199023255552	2199023255551	4398046511103	43521329506113500000000	9671406556691483000000	38685626227659300000000	4835703278454200000000000		274877906944	4398046511103
42		4398046511104	4398046511103	8796093022207	174085318024800000000000	38685626227663700000000	154742504910655000000000	19342813113835000000000000		549755813888	8796093022206.99
43		8796093022208	8796093022207	17592186044415	696341272097974000000000	154742504910664000000000	618970019642656000000000	77371252455318000000000000		1099511627776	17592186044415
44		17592186044416	17592186044415	35184372088831	2785365088392000000000000	618970019642673000000000	2475880078570699000000000	309485009821310000000000000		2199023255552	35184372088831
45		35184372088832	35184372088831	70368744177663	11141460335588200000000000	2475880078570730000000000	9903520314282920000000000	1237940039285280000000000000		4398046511104	70368744177663.1
46		70368744177664	70368744177663	140737488355327	44565841414273000000000000	9903520314282970000000000	39614081257131900000000000	4951760157141400000000000000		8796093022208	140737488355327
47		140737488355328	140737488355327	281474976710655	178263365657094000000000000	39614081257132000000000000	158456325028528000000000000	19807040628566000000000000000		17592186044416	281474976710655
48		281474976710656	281474976710655	562949953421311	713053462628370000000000000	158456325028528000000000000	633825300114114000000000000	2792816251426500000000000000		35184372088832	562949953421311
49		562949953421312	562949953421311	1125899906842620	2852213850513500000000000000	633825300114114000000000000	2535301200456450000000000000	11691265005705000000000000000		70368744177663.9	1125899906842620
50		1125899906842620	1125899906842620	2251799813685240	11408855402054000000000000000	2535301200456450000000000000	10141204801825800000000000000	50706024009129700000000000000		140737488355328	2251799813685240
51		2251799813685240	2251799813685240	4503599627370480	45635421608215900000000000000	10141204801825800000000000000	40564819207303200000000000000	203282409603652000000000000000		281474976710655	4503599627370500
52		4503599627370480	4503599627370480	9007199254740960	182541686432864000000000000000	40564819207303100000000000000	162259276829212000000000000000	812129638414606000000000000000		562949953421310	9007199254740970
53		9007199254740960	9007199254740960	18014398509481920	730166745731454000000000000000	162259276829212000000000000000	649037107316854000000000000000	3248518553584200000000000000000		1125899906842620	18014398509481900
54		18014398509481900	18014398509481900	36028797018963800	2920666982925810000000000000000	649037107316854000000000000000	2596148429267390000000000000000	12980742146337000000000000000000		2251799813685240	36028797018963800
55		36028797018963800	36028797018963800	72057594037927600	11682667931703300000000000000000	2596148429267390000000000000000	10384593717069600000000000000000	51923968583480000000000000000000		4503599627370480	72057594037927600
56		72057594037927600	72057594037927600	144115188075855000	46730671758812900000000000000000	10384593717069600000000000000000	41538374868278000000000000000000	207691874341400000000000000000000		9007199254740940	144115188075855000
57		144115188075855000	144115188075855000	288230376151711000	186922688667202000000000000000000	41538374868278100000000000000000	166153499473112000000000000000000	830767497365680000000000000000000		18014398509481900	288230376151710000
58		288230376151711000	288230376151711000	576460752303423000	747690752668808000000000000000000	166153499473112000000000000000000	664613997892448000000000000000000	3323076991462080000000000000000000		36028797018963800	576460752303418000
59		576460752303424000	576460752303423000	1152921504606846000	2990762995160200000000000000000000	664613997892450000000000000000000	2658455991569800000000000000000000	13292279967849100000000000000000000		72057594037927500	1152921504606840000
60	61	1152921504606846000	1152921504606846000	2305843009213693000	11963083996718000000000000000000000	2658455991569800000000000000000000	10633823966279200000000000000000000	53169119831396500000000000000000000		144115188075855000	2305843009213680000
61		2305843009213693000	2305843009213693000	4611686018427387000	47852278482564000000000000000000000	10633823966279200000000000000000000	42532529865116800000000000000000000	212676479325580000000000000000000000		288230376151710000	4611686018427360000
62		4611686018427360000	4611686018427360000	9223372036854720000	191408691393928000000000000000000000	42532529865116800000000000000000000	170141183460469000000000000000000000	850705917302300000000000000000000000		576460752303420000	9223372036854720000
63		9223372036854720000	9223372036854720000	18446744073709440000	765633352712000000000000000000000000	170141183460469000000000000000000000	680564733841876000000000000000000000	3402823669209400000000000000000000000		1152921504606840000	18446744073709500000
64		18446744073709440000	18446744073709440000	36893488147419880000	3062533410988800000000000000000000000	680564733841876000000000000000000000	2722258935367460000000000000000000000	13611294676837600000000000000000000000		2305843009213680000	36893488147419800000
65		36893488147419880000	36893488147419880000	73786976294837600000	12250165639153000000000000000000000000	2722258935367460000000000000000000000	10889035741470000000000000000000000000	54445178702350000000000000000000000000		4611686018427350000	73786976294837500000
66		73786976294837600000	73786976294837600000	147573952589675000000	49000663656114000000000000000000000000	10889035741470000000000000000000000000	43556142965880000000000000000000000000	217780718654400000000000000000000000000		9223372036854690000	147573952589675000000
67		147573952589675000000	147573952589675000000	295147905179350000000	196002653456457000000000000000000000000	43556142965880000000000000000000000000	174224571863520000000000000000000000000	871122857454080000000000000000000000000		18446744073709400000	295147905179350000000
68		295147905179350000000	295147905179350000000	590295810358700000000	784010612985828000000000000000000000000	174224571863520000000000000000000000000	696898287454080000000000000000000000000	3484491149816320000000000000000000000000		36893488147418800000	590295810358700000000
69		590295810358700000000	590295810358700000000	1180591620717400000000	3136042439422000000000000000000000000000	696898287454080000000000000000000000000	2787593149816320000000000000000000000000	13937965749081600000000000000000000000000		73786976294837500000	1180591620717400000000
70		1180591620717400000000	1180591620717400000000	2361183241434800000000	12544188717472000000000000000000000000000	2787593149816320000000000000000000000000	11150372599265280000000000000000000000000	55751862963426400000000000000000000000000		147573952589675000000	2361183241434800000000
71		2361183241434800000000	2361183241434800000000	4722366482869600000000	50175276689000000000000000000000000000000	11150372599265280000000000000000000000000	44601490397061120000000000000000000000000	223007451985306560000000000000000000000000		295147905179350000000	4722366482869600000000
72		4722366482869600000000	4722366482869600000000	9444732965739200000000	200701106756000000000000000000000000000000	44601490397061120000000000000000000000000	178405961588244000000000000000000000000000	892029807940890000000000000000000000000000		590295810358700000000	9444732965739200000000
73		9444732965739200000000	9444732965739200000000	18889465931478400000000	803000427024000000000000000000000000000000	178405961588244000000000000000000000000000	713623846353000000000000000000000000000000	3568119383172000000000000000000000000000000		1180591620717400000000	18889465931478400000000
74		18889465931478400000000	18889465931478400000000	37778931862956800000000	3212013708096000000000000000000000000000000	713623846353000000000000000000000000000000	2854493541412000000000000000000000000000000	14272467882706000000000000000000000000000000		2361183241434800000000	37778931862956800000000
75		37778931862956800000000	37778931862956800000000	75557863725913600000000	12852052835400000000000000000000000000000000	2854493541412000000000000000000000000000000	11417973647650000000000000000000000000000000	57089867294125000000000000000000000000000000		4722366482869600000000	75557863725913600000000
76		75557863725913600000000	75557863725913600000000	151115727451827000000000	51410211354160000000000000000000000000000000	11417973647650000000000000000000000000000000	45671892589060000000000000000000000000000000	228359463045300000000000000000000000000000000		9444732965739190000000	151115727451827000000000
77		151115727451827000000000	151115727451827000000000	302231454903654000000000	205643845614640000000000000000000000000000000	45671892589060000000000000000000000000000000	182687568356240000000000000000000000000000000	913438282337760000000000000000000000000000000		18889465931478400000000	302231454903654000000000
78		302231454903654000000000	302231454903654000000000	604462909807308000000000	822874479886400000000000000000000000000000000	182687568356240000000000000000000000000000000	730750814943360000000000000000000000000000000	3653754490337200000000000000000000000000000000		37778931862956800000000	604462909807308000000000
79		604462909807308000000000	604462909807308000000000	1208925819614620000000000	1290962863904700000000000000000000000000000000	730750814943360000000000000000000000000000000	2923002748173000000000000000000000000000000000	14615013740865000000000000000000000000000000000		75557863725913700000000	1208925819614620000000000
80		1208925819614620000000000	1208925819614620000000000	2417851639229240000000000	2063303274887760000000000000000000000000000000	2923002748173000000000000000000000000000000000	11692109899053000000000000000000000000000000000	58460549495313000000000000000000000000000000000		151115727451828000000000	2417851639229240000000000
81		2417851639229240000000000	2417851639229240000000000	4835703278458480000000000	3301008421208000000000000000000000000000000000	11692109899053000000000000000000000000000000000	46768436396000000000000000000000000000000000000	233842064923370000000000000000000000000000000000		302231454903655000000000	4835703278458480000000000
82		4835703278458480000000000	4835703278458480000000000	9671406556916960000000000	5281613453132800000000000000000000000000000000	46768436396000000000000000000000000000000000000	187073745584000000000000000000000000000000000000	935368728920000000000000000000000000000000000000		604462909807310000000000	9671406556916960000000000
83		9671406556916960000000000	9671406556916960000000000	19342813113833900000000000	8448980173012500000000000000000000000000000000000	187073745584000000000000000000000000000000000000	748294982336000000000000000000000000000000000000	3741474911680000000000000000000000000000000000000		1208925819614620000000000	19342813113833900000000000
84		19342813113833900000000000	19342813113833900000000000	38685626227667800000000000	13510744139732000000000000000000000000000000000000	748294982336000000000000000000000000000000000000	2993179929344000000000000000000000000000000000000	14965899717376000000000000000000000000000000000000		2417851639229240000000000	38685626227667800000000000
85		38685626227667800000000000	38685626227667800000000000	77371252455335600000000000	21617190356352000000000000000000000000000000000000	2993179929344000000000000000000000000000000000000	11972719717376000000000000000000000000000000000000	59863598869504000000000000000000000000000000000000		4835703278458480000000000	77371252455335600000000000
86		77371252455335600000000000	77371252455335600000000000	154742504910671000000000	5874250491067100000000000000000000000000000000000	11972719717376000000000000000000000000000000000000	47890878869504000000000000000000000000000000000000	239454395478016000000000000000000000000000000000000		9671406556916940000000000	154742504910671000000000
88	89	309485009821340000000000	309485009821340000000000	618970019642680000000000	95846931179904000000000000000000000000000000000000	47890878869504000000000000000000000000000000000000	191563515478016000000000000000000000000000000000000	957817577390080000000000000000000000000000000000000		19342813113833900000000000	618970019642680000000000
89		618970019642680000000000	618970019642680000000000	1237940039285370000000000	3683562622766780000000000000000000000000000000000000	191563515478016000000000000000000000000000000000000	766254061912064000000000000000000000000000000000000	3831270309560320000000000000000000000000000000000000		38685626227667800000000000	1237940039285370000000000
90		1237940039285370000000000	1237940039285370000000000	2475880078570740000000000	1529640639232000000000000000000000000000000000000	766254061912064000000000000000000000000000000000000	3064996247648256000000000000000000000000000000000000	15324980123241280000000000000000000000000000000000000		77371252455335600000000000	2475880078570740000000000
91		2475880078570740000000000	2475880078570740000000000	4951760157141480000000000	611856255692800000000000000000000000000000000000000	3064996247648256000000000000000000000000000000000000	12259984990592000000000000000000000000000000000000000	61299924952960000000000000000000000000000000000000000		154742504910671000000000	4951760157141480000000000
92		4951760157141480000000000	4951760157141480000000000	9903520314282900000000000	244742502277120000000000000000000000000000000000000000	12259984990592000000000000000000000000000000000000000	49039939962368000000000000000000000000000000000000000	245199699811840000000000000000000000000000000000000000		309485009821340000000000	9903520314282900000000000
93		9903520314282900000000000	9903520314282900000000000	19807040628565900000000000	97938975690848000000000000000000000000000000000000000	49039939962368000000000000000000000000000000000000000	196159759849472000000000000000000000000000000000000000	980798799247360000000000000000000000000000000000000000		618970019642680000000000	19807040628565900000000000
94		19807040628565900000000000	19807040628565900000000000	39614081257131800000000000	39175590276339200000000000000000000000000000000000000	196159759849472000000000000000000000000000000000000000	784639039397888000000000000000000000000000000000000000	3923195196989440000000000000000000000000000000000000000		1237940039285370000000000	39614081257131800000000000
95		39614081257131800000000000	39614081257131800000000000	79228162514263600000000000	15670236110535680000000000000000000000000000000000000000	784639039397888000000000000000000000000000000000000000	3138556157591552000000000000000000000000000000000000000	15692780787957760000000000000000000000000000000000000000		2475880078570740000000000	79228162514263600000000000
96		79228162514263600000000000	79228162514263600000000000	158456325028527000000000000	6268094444214272000000000000000000000000000000000000000	3138556157591552000000000000000000000000000000000000000	12554224630366208000000000000000000000000000000000000000	62771123151831040000000000000000000000000000000000000000		4951760157141480000000000	158456325028527000000000000
97		158456325028527000000000000	158456325028527000000000000	316912650057054000000000000000	25072777777856848000000000000000000000000000000000000000	12554224630366208000000000000000000000000000000000000000	50216898521464832000000000000000000000000000000000000000	251084492607324160000000000000000000000000000000000000000		9903520314282900000000000	316912650057054000000000000000
98		316912650057054000000000000000	316912650057054000000000000000	633825300114108000000000000000000000000000000000000000	100291111111427392000000000000000000000000000000000000000	50216898521464832000000000000000000000000000000000000000	200867594085859328000000000000000000000000000000000000000	1004337970429296640000000000000000000000000000000000000000		19807040628565900000000000	633825300114108000000000000000000000000000000000000000
99		633825300114108000000000000000	633825300114108000000000000000000000000000000000000000	1267650600228200000000000000000000000000000000000000000	401167444444569568000000000000000000000000000000000000000	200867594085859328000000000000000000000000000000000000000	803470376343437312000000000000000000000000000000000000000	4017351881717186560000000000000000000000000000000000000000		39614081257131800000000000	1267650600228200000000000000000000000000000000000000000
100		1267650600228200000000000000000	1267650600228200000000000000000000000000000000000000000	2535301200456440000000000000000000000000000000000000000	1604669777777826272000000000000000000000000000000000000000	803470376343437312000000000000000000000000000000000000000	3213881507373749248000000000000000000000000000000000000000	16069407536868746240000000000000000000000000000000000000000		79228162514263600000000000	2535301200456440000000000000000000000000000000000000000
101		2535301200456440000000000000000	2535301200456440000000000000000000000000000000000000000	5070602400912880000000000000000000000000000000000000000	6418677111111305088000000000000000000000000000000000000000	3213881507373749248000000000000000000000000000000000000000	12855526029495000000000000000000000000000000000000000000	64277630147475000000000000000000000000000000000000000000		158456325028527000000000000	5070602400912880000000000000000000000000000000000000000
102		5070602400912880000000000000000	5070602400912880000000000000000000000000000000000000000	10141204801825800000000000000000000000000000000000000000	25672444444523552352000000000000000000000000000000000000000	12855526029495000000000000000000000000000000000000000000	51422104117980000000000000000000000000000000000000000000	257110520589900000000000000000000000000000000000000000000		633825300114108000000000000000000000000000000000000000000	10141204801825800000000000000000000000000000000000000000
103		10141204801825800000000000000000	10141204801825800000000000000000000000000000000000000000	20282409603651600000000000000000000000000000000000000000	102689777777694209408000000000000000000000000000000000000000	51422104117980000000000000000000000000000000000000000000	205688416471920000000000000000000000000000000000000000000	1028442082359600000000000000000000000000000000000000000000		1267650600228200000000000000000000000000000000000000000000	20282409603651600000000000000000000000000000000000000000000
104		20282409603651600000000000000000	20282409603651600000000000000000000000000000000000000000000	40564819207303200000000000000000000000000000000000000000000	410757111111078836832000000000000000000000000000000000000000000	205688416471920000000000000000000000000000000000000000000000	822753665887680000000000000000000000000000000000000000000000	4113768329438400000000000000000000000000000000000000000000000		2535301200456440000000000000000000000000000000000000000000000	40564819207303200000000000000000000000000000000000000000000000
105		40564819207303200000000000000000000000000000000000000000000000	40564819207303200000000000000000000000000000000000000000000000	81129638414606300000000000000000000000000000000000000000000000	1643029111111312335328000000000000000000000000000000000000000000000	822753665887680000000000000000000000000000000000000000000000000	3291014663550720000000000000000000000000000000000000000000000000	16455073317753600000000000000000000000000000000000000000000000000		5070602400912880000000000000000000000000000000000000000000000000	81129638414606300000000000000000000000000000000000000000000000000
106	107	811296384146060400000000000000000	811296384146060400000000000000000000000000000000000000000000000	1622592768292130000000000000000	6572116444444251341312000000000000000000000000000000000000000000000	3291014663550720000000000000000000000000000000000000000000000000	13164058654202880000000000000000000000000000000000000000000000000	65820293271014400000000000000000000000000000000000000000000000000		10141204801825800000000000000000000000000000000000000000000000000	1622592768292130000000000000000000000000000000000000000000000000
107		1622592768292130000000000000000	1622592768292130000000000000000000000000000000000000000000000000	3245185536584250000000000000000000	26288222077777007365248000000000000000000000000000000000000000000000	13164058654202880000000000000000000000000000000000000000000000000	52656234616811520000000000000000000000000000000000000000000000000000	263281173408057600000000000000000000000000000000000000000000000000000		20282409603651600000000000000000000000000000000000000000000000000000	3245185536584250000000000000000000000000000000000000000000000000000
108		3245185536584250000000000000000000	3245185536584250000000000000000000000000000000000000000000000000000	6490371073168500000000000000000000	105152888888028029952000000000000000000000000000000000000000000000000	52656234616811520000000000000000000000000000000000000000000000000000	210624938467246080000000000000000000000000000000000000000000000000000	1053124692336230400000000000000000000000000000000000000000000000000000		40564819207303300000000000000000000000000000000000000000000000000000	6490371073168500000000000000000000000000000000000000000000000000000
109		6490371073168500000000000000000000	6490371073168500000000000000000000000000000000000000000000000000000	12980742146337000000000000000000000	420611555555112117248000000000000000000000000000000000000000000000000	210624938467246080000000000000000000000000000000000000000000000000000	842499753869000320000000000000000000000000000000000000000000000000000	4212498769345001600000000000000000000000000000000000000000000000000000		81129638414606300000000000000000000000000000000000000000000000000000	12980742146337000000000000000000000000000000000000000000000000000000
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114		207691874341390000000000000000000000	207691874341390000000000000000000000000000000000000000000000000000000000	415383748682780000000000000000000000	430577777777719547370368000000000000000000000000000000000000000000000000	207691874341390000000000000000000000000000000000000000000000000000000000	862767497365560000000000000000000000000000000000000000000000000000000000	4313837488278000000000000000000000000000000000000000000000000000000000000		2596148429267400000000000000000000000000000000000000000000000000000000000	415383748682780000000000000000000000000000000000000000000000000000000000
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