

Table 119. 4n+3 = P+3 = z

#	p	z	z² = A	4n + P	4n + 3 = P + 3 = z	Ap/2	STEPS
1	2	3	9	12			
2	3	7	49	49			
3	5	31	961	124		31	1
4	7	127	16129	508		127	1
5						511	
6		511	261121	2044		2047	
7		2047	4190209	8188		8191	3
8	13	8191	67092481	32764		32767	
9						131071	2
10	17	131071	171967041	52948		52949	
11	19	524287	27487685369	202148		202151	1
12		202151	4398042316801	8388604		8388607	
13		8388607	70368727400449	33554428		33554431	
14		33554431	112859983733760	134217724		134217727	
15		134217727	18014398241046500	516749098		516749101	
16		516749101	28623035707978000	234878364		234878367	
17	31	2147483647	4611686014132420609	8589034588		8589034591	
18		8589034591	7378697627765830000	34359738364		34359738367	
19		34359738367	118059162064869000000	137438953468		137438953471	
20		137438953471	1888846593120370000000	549755813884		549755813887	
21		549755813887	30223459255800000000	219023255548		219023255551	
22		219023255551	473370327845412000000000	879609302204		879609302207	
23		879609302207	7725245531870000000000	3518437208828		3518437208831	
24		3518437208831	1237940392853100000000000	14073748855324		14073748855327	
25		14073748855327	1980740628568000000000000	562949953421308		562949953421311	
26		562949953421311	3169126505705600000000000000	2251799813685240		2251799813685243	
27		2251799813685240	5070624009128800000000000000	9007199254740960		9007199254740963	
28		9007199254740960	811263841460610000000000000000	36028797018963800		36028797018963803	
29		36028797018963800	12980741433390000000000000000000	144115188073855000		144115188073855003	
30		144115188073855000	2076918743413610000000000000000000	57646075203420000		57646075203420003	
31	61	230584309213693951	5316911983139660000000000000000000	230584309213693951		230584309213693954	15
32		230584309213693951	8059705917302347000000000000000000	92337203685478000		92337203685478003	
33		92337203685478000	13611294676837500000000000000000000000	3689348814741910000		3689348814741910003	
34		3689348814741910000	21778071482939900000000000000000000000	14757395258676000000		14757395258676000003	
35		1475739525867600000	348449143727039000000000000000000000000	5902958103587400000		59029581035874000003	
36		5902958103587400000	55751862996326400000000000000000000000	236118324143482000000		2361183241434820000003	
37		23611832414348200000	89202980794122300000000000000000000000	94447329657392800000		944473296573928000003	
38		9444732965739280000	14274769270596000000000000000000000000	3777893186295710000000		37778931862957100000003	
39		3777893186295710000000	22835963083920000000000000000000000000	1511572745182800000000		15115727451828000000003	
40		1511572745182800000000	36375409332723000000000000000000000000	6044629080731200000000		60446290807312000000003	
41		604462908073120000000000	58400654932570000000000000000000000000	9671406559170000000000		96714065591700000000003	
42		967140655917000000000000	93361047891771000000000000000000000000	3686562622766800000000		36865626227668000000003	
43		368656262276680000000000	14965776626830000000000000000000000000	15474250491067200000000000		15474250491067200000000003	
44		15474250491067200000000000	23945428620930000000000000000000000000	618970019642688000000000		6189700196426880000000003	14
45	89	61897001964268800000000000000000000000	38312388521647200000000000000000000000	24758800785707600000000000		247588007857076000000000003	
46		24758800785707600000000000000000000000	61299821634250000000000000000000000000	99032503142830400000000000		990325031428304000000000003	
47		99032503142830400000000000000000000000	98079174615416800000000000000000000000	39614081257132200000000000		396140812571322000000000003	
48		39614081257132200000000000000000000000	15692754384670000000000000000000000000	158456325028529000000000000000		1584563250285290000000000000003	
49		15845632502852900000000000000000000000	25108406945146800000000000000000000000	633825300114116000000000000000		6338253001141160000000000000003	
50		63382530011411600000000000000000000000	40173451106479000000000000000000000000	253530120045646000000000000000		2535301200456460000000000000003	
51		25353012004564600000000000000000000000	64277521703597000000000000000000000000	1014120480182580000000000000000		10141204801825800000000000000003	
52		10141204801825800000000000000000000000	102844034832575000000000000000000000000	4056481920730200000000000000000		40564819207302000000000000000003	
53		40564819207302000000000000000000000000	164550457321190000000000000000000000000	16225927682913000000000000000000		162259276829130000000000000000003	9
54	107	16225927682913000000000000000000000000	263280727113930000000000000000000000000	6490371073168530000000000000000		64903710731685300000000000000003	
55		64903710731685300000000000000000000000	421249186674228000000000000000000000000	25961484296741000000000000000000		259614842967410000000000000000003	
56		25961484296741000000000000000000000000	67999668691568200000000000000000000000	10384597170696600000000000000000		103845971706966000000000000000003	
57		10384597170696600000000000000000000000	11725386866867000000000000000000000000	41538374868278400000000000000000		415383748682784000000000000000003	
58		41538374868278400000000000000000000000	17235499910820000000000000000000000000	16615349847311400000000000000000		1661534984731140000000000000000003	
59		16615349847311400000000000000000000000	27806965387162100000000000000000000000	66461399789245600000000000000000		664613997892456000000000000000003	
60		66461399789245600000000000000000000000	44171176619459400000000000000000000000	26584559915698200000000000000000		265845599156982000000000000000003	
61		26584559915698200000000000000000000000	7160249113470000000000000000000000000	10632839662793000000000000000000		106328396627930000000000000000003	
62		10632839662793000000000000000000000000	11307821145816000000000000000000000000	42535298651172000000000000000000		425352986511720000000000000000003	
63		42535298651172000000000000000000000000	18029513433060000000000000000000000000	17014183460180000000000000000000		170141834601800000000000000000003	10
64	127	17014183460180000000000000000000000000	289480223092920000000000000000000000000	68056473284170000000000000000000		680564732841700000000000000000003	
65		68056473284170000000000000000000000000	46316669428260000000000000000000000000	27225893536751000000000000000000		272258935367510000000000000000003	
66		27225893536751000000000000000000000000	74130939111825000000000000000000000000	108890357414700000000000000000000		1088903574147000000000000000000003	
67		10889035741470000000000000000000000000	118571099370110000000000000000000000000	435561429658800000000000000000000		4355614296588000000000000000000003	
68		43556142965880000000000000000000000000	18971793906814100000000000000000000000	174224571863520000000000000000000		1742245718635200000000000000000003	
69		17422457186352000000000000000000000000	30524014410269000000000000000000000000	698789812874500000000000000000000		6987898128745000000000000000000003	
70		69878981287450000000000000000000000000	48566722056429000000000000000000000000	278759314981632000000000000000000		2787593149816320000000000000000003	
71		27875931498163200000000000000000000000	77706755689028700000000000000000000000	115037259926530000000000000000000		1150372599265300000000000000000003	
72		11503725992653000000000000000000000000	12430909426466000000000000000000000000	4460149039706120000000000000000000		44601490397061200000000000000000003	
73		44601490397061200000000000000000000000	19892295639140000000000000000000000000	178405961588245000000000000000000		1784059615882450000000000000000003	
74		17840596158824500000000000000000000000	31828887130226300000000000000000000000	713623846329800000000000000000000		7136238463298000000000000000000003	
75		71362384632980000000000000000000000000	50295899403926000000000000000000000000	285449385411920000000000000000000		2854493854119200000000000000000003	
76		28544938541192000000000000000000000000	81481439053794000000000000000000000000	1147198154164770000000000000000000		11471981541647700000000000000000003	
77		11471981541647700000000000000000000000	13037032485408000000000000000000000000	45671926166590800000000000000000		4567192616659080000000000000000003	
78		4567192616659080000000000000000000000	16735645993786520000000000000000000000	182687704666360000000000000000000		1826877046663600000000000000000003	
79		18268770466636000000000000000000000000	23374797436243000000000000000000000000	730750818665452000000000000000000		7307508186654520000000000000000003	
80		7307508186654520000000000000000000000	53399675896800000000000000000000000000	292302374681810000000000000000000		2923023746818100000000000000000003	
81		29230237468181000000000000000000000000	85439841023893600000000000000000000000	116920130986472000000000000000000		1169201309864720000000000000000003	
82		11692013098647200000000000000000000000	136703142968390000000000000000000000000	467890523945880000000000000000000		4678905239458800000000000000000003	
83		46789052394588000000000000000000000000	21872507247830000000000000000000000000	187072209578355000000000000000000		1870722095783550000000000000000003	
84		18707220957835500000000000000000000000	34996011596528000000000000000000000000	748288838134200000000000000000000		7482888381342000000000000000000003	
85		74828883813420000000000000000000000000	55998518544000000000000000000000000000	299315535236800000000000000000000		2993	