

$N(i)$ = #isomorphism classes of groups G with $|G| = i$. (Courtesy of GAP)

$N(512) = 10494213$

$N(1) = 1$	$N(60) = 13$	$N(119) = 1$	$N(178) = 2$	$N(237) = 2$	$N(296) = 14$
$N(2) = 1$	$N(61) = 1$	$N(120) = 47$	$N(179) = 1$	$N(238) = 4$	$N(297) = 5$
$N(3) = 1$	$N(62) = 2$	$N(121) = 2$	$N(180) = 37$	$N(239) = 1$	$N(298) = 2$
$N(4) = 2$	$N(63) = 4$	$N(122) = 2$	$N(181) = 1$	$N(240) = 208$	$N(299) = 1$
$N(5) = 1$	$N(64) = 267$	$N(123) = 1$	$N(182) = 4$	$N(241) = 1$	$N(300) = 49$
$N(6) = 2$	$N(65) = 1$	$N(124) = 4$	$N(183) = 2$	$N(242) = 5$	$N(301) = 2$
$N(7) = 1$	$N(66) = 4$	$N(125) = 5$	$N(184) = 12$	$N(243) = 67$	$N(302) = 2$
$N(8) = 5$	$N(67) = 1$	$N(126) = 16$	$N(185) = 1$	$N(244) = 5$	$N(303) = 1$
$N(9) = 2$	$N(68) = 5$	$N(127) = 1$	$N(186) = 6$	$N(245) = 2$	$N(304) = 42$
$N(10) = 2$	$N(69) = 1$	$N(128) = 2328$	$N(187) = 1$	$N(246) = 4$	$N(305) = 2$
$N(11) = 1$	$N(70) = 4$	$N(129) = 2$	$N(188) = 4$	$N(247) = 1$	$N(306) = 10$
$N(12) = 5$	$N(71) = 1$	$N(130) = 4$	$N(189) = 13$	$N(248) = 12$	$N(307) = 1$
$N(13) = 1$	$N(72) = 50$	$N(131) = 1$	$N(190) = 4$	$N(249) = 1$	$N(308) = 9$
$N(14) = 2$	$N(73) = 1$	$N(132) = 10$	$N(191) = 1$	$N(250) = 15$	$N(309) = 2$
$N(15) = 1$	$N(74) = 2$	$N(133) = 1$	$N(192) = 1543$	$N(251) = 1$	$N(310) = 6$
$N(16) = 14$	$N(75) = 3$	$N(134) = 2$	$N(193) = 1$	$N(252) = 46$	$N(311) = 1$
$N(17) = 1$	$N(76) = 4$	$N(135) = 5$	$N(194) = 2$	$N(253) = 2$	$N(312) = 61$
$N(18) = 5$	$N(77) = 1$	$N(136) = 15$	$N(195) = 2$	$N(254) = 2$	$N(313) = 1$
$N(19) = 1$	$N(78) = 6$	$N(137) = 1$	$N(196) = 12$	$N(255) = 1$	$N(314) = 2$
$N(20) = 5$	$N(79) = 1$	$N(138) = 4$	$N(197) = 1$	$N(256) = 56092$	$N(315) = 4$
$N(21) = 2$	$N(80) = 52$	$N(139) = 1$	$N(198) = 10$	$N(257) = 1$	$N(316) = 4$
$N(22) = 2$	$N(81) = 15$	$N(140) = 11$	$N(199) = 1$	$N(258) = 6$	$N(317) = 1$
$N(23) = 1$	$N(82) = 2$	$N(141) = 1$	$N(200) = 52$	$N(259) = 1$	$N(318) = 4$
$N(24) = 15$	$N(83) = 1$	$N(142) = 2$	$N(201) = 2$	$N(260) = 15$	$N(319) = 1$
$N(25) = 2$	$N(84) = 15$	$N(143) = 1$	$N(202) = 2$	$N(261) = 2$	$N(320) = 1640$
$N(26) = 2$	$N(85) = 1$	$N(144) = 197$	$N(203) = 2$	$N(262) = 2$	$N(321) = 1$
$N(27) = 5$	$N(86) = 2$	$N(145) = 1$	$N(204) = 12$	$N(263) = 1$	$N(322) = 4$
$N(28) = 4$	$N(87) = 1$	$N(146) = 2$	$N(205) = 2$	$N(264) = 39$	$N(323) = 1$
$N(29) = 1$	$N(88) = 12$	$N(147) = 6$	$N(206) = 2$	$N(265) = 1$	$N(324) = 176$
$N(30) = 4$	$N(89) = 1$	$N(148) = 5$	$N(207) = 2$	$N(266) = 4$	$N(325) = 2$
$N(31) = 1$	$N(90) = 10$	$N(149) = 1$	$N(208) = 51$	$N(267) = 1$	$N(326) = 2$
$N(32) = 51$	$N(91) = 1$	$N(150) = 13$	$N(209) = 1$	$N(268) = 4$	$N(327) = 2$
$N(33) = 1$	$N(92) = 4$	$N(151) = 1$	$N(210) = 12$	$N(269) = 1$	$N(328) = 15$
$N(34) = 2$	$N(93) = 2$	$N(152) = 12$	$N(211) = 1$	$N(270) = 30$	$N(329) = 1$
$N(35) = 1$	$N(94) = 2$	$N(153) = 2$	$N(212) = 5$	$N(271) = 1$	$N(330) = 12$
$N(36) = 14$	$N(95) = 1$	$N(154) = 4$	$N(213) = 1$	$N(272) = 54$	$N(331) = 1$
$N(37) = 1$	$N(96) = 231$	$N(155) = 2$	$N(214) = 2$	$N(273) = 5$	$N(332) = 4$
$N(38) = 2$	$N(97) = 1$	$N(156) = 18$	$N(215) = 1$	$N(274) = 2$	$N(333) = 5$
$N(39) = 2$	$N(98) = 5$	$N(157) = 1$	$N(216) = 177$	$N(275) = 4$	$N(334) = 2$
$N(40) = 14$	$N(99) = 2$	$N(158) = 2$	$N(217) = 1$	$N(276) = 10$	$N(335) = 1$
$N(41) = 1$	$N(100) = 16$	$N(159) = 1$	$N(218) = 2$	$N(277) = 1$	$N(336) = 228$
$N(42) = 6$	$N(101) = 1$	$N(160) = 238$	$N(219) = 2$	$N(278) = 2$	$N(337) = 1$
$N(43) = 1$	$N(102) = 4$	$N(161) = 1$	$N(220) = 15$	$N(279) = 4$	$N(338) = 5$
$N(44) = 4$	$N(103) = 1$	$N(162) = 55$	$N(221) = 1$	$N(280) = 40$	$N(339) = 1$
$N(45) = 2$	$N(104) = 14$	$N(163) = 1$	$N(222) = 6$	$N(281) = 1$	$N(340) = 15$
$N(46) = 2$	$N(105) = 2$	$N(164) = 5$	$N(223) = 1$	$N(282) = 4$	$N(341) = 1$
$N(47) = 1$	$N(106) = 2$	$N(165) = 2$	$N(224) = 197$	$N(283) = 1$	$N(342) = 18$
$N(48) = 52$	$N(107) = 1$	$N(166) = 2$	$N(225) = 6$	$N(284) = 4$	$N(343) = 5$
$N(49) = 2$	$N(108) = 45$	$N(167) = 1$	$N(226) = 2$	$N(285) = 2$	$N(344) = 12$
$N(50) = 5$	$N(109) = 1$	$N(168) = 57$	$N(227) = 1$	$N(286) = 4$	$N(345) = 1$
$N(51) = 1$	$N(110) = 6$	$N(169) = 2$	$N(228) = 15$	$N(287) = 1$	$N(346) = 2$
$N(52) = 5$	$N(111) = 2$	$N(170) = 4$	$N(229) = 1$	$N(288) = 1045$	$N(347) = 1$
$N(53) = 1$	$N(112) = 43$	$N(171) = 5$	$N(230) = 4$	$N(289) = 2$	$N(348) = 12$
$N(54) = 15$	$N(113) = 1$	$N(172) = 4$	$N(231) = 2$	$N(290) = 4$	$N(349) = 1$
$N(55) = 2$	$N(114) = 6$	$N(173) = 1$	$N(232) = 14$	$N(291) = 2$	$N(350) = 10$
$N(56) = 13$	$N(115) = 1$	$N(174) = 4$	$N(233) = 1$	$N(292) = 5$	$N(351) = 14$
$N(57) = 2$	$N(116) = 5$	$N(175) = 2$	$N(234) = 16$	$N(293) = 1$	$N(352) = 195$
$N(58) = 2$	$N(117) = 4$	$N(176) = 42$	$N(235) = 1$	$N(294) = 23$	$N(353) = 1$
$N(59) = 1$	$N(118) = 2$	$N(177) = 1$	$N(236) = 4$	$N(295) = 1$	$N(354) = 4$