

کوتاه ترین مسیر در شبکه شامل سلول و مانع

حسین حمزه زاده

دانشگاه تبریز

بهار ۱۴۰۳

A*:

Path	Cost	Run Time
(180, 178) -> (180, 177) -> (180, 176)	2	135.60 ms
(313, 380) -> (312, 380) -> (311, 381) -> (310, 382) -> (309, 383) -> (308, 384) -> (307, 384) -> (306, 384) -> (305, 384) -> (304, 384) -> (303, 384) -> (302, 384) -> (301, 384) -> (300, 384)	13	148.70 ms
(635, 675) -> (635, 676) -> (634, 677) -> (633, 678) -> (632, 679) -> (631, 680) -> (630, 681) -> (629, 682) -> (628, 683) -> (627, 684) -> (627, 685) -> (627, 686) -> (627, 687) -> (627, 688) -> (627, 689) -> (627, 690) -> (627, 691) -> (627, 692) -> (627, 693) -> (627, 694) -> (627, 695) -> (627, 696) -> (627, 697) -> (627, 698) -> (627, 699) -> (627, 700) -> (627, 701) -> (627, 702) -> (627, 703) -> (627, 704) -> (627, 705) -> (627, 706) -> (627, 707) -> (627, 708) -> (627, 709) -> (627, 710) -> (627, 711) -> (627, 712) -> (627, 713) -> (627, 714) -> (627, 715) -> (627, 716) -> (627, 717) -> (627, 718) -> (627, 719) -> (627, 720) -> (627, 721) -> (627, 722) -> (627, 723) -> (627, 724) -> (627, 725) -> (627, 726) -> (627, 727) -> (627, 728) -> (627, 729) -> (627, 730) ->	64	195.90 ms

(627, 731) -> (627, 732) -> (627, 733) -> (627, 734) -> (627, 735) -> (627, 736) -> (627, 737) -> (627, 738) -> (627, 739)		
(168, 492) -> (168, 493) -> (167, 494) -> (166, 495) -> (165, 496) -> (164, 497) -> (163, 498) -> (162, 499) -> (161, 500) -> (160, 501) -> (159, 502) -> (158, 503) -> (157, 504) -> (156, 505) -> (155, 506) -> (154, 507) -> (153, 508) -> (152, 509) -> (151, 510) -> (150, 511) -> (149, 512) -> (148, 513) -> (147, 514) -> (146, 515) -> (145, 516) -> (144, 517) -> (143, 518) -> (142, 519) -> (141, 520) -> (140, 521) -> (139, 522) -> (138, 523) -> (137, 524) -> (136, 525) -> (135, 526) -> (134, 527) -> (133, 528) -> (132, 529) -> (131, 530) -> (130, 531) -> (129, 532) -> (128, 533) -> (127, 534) -> (126, 535) -> (125, 536) -> (124, 537) -> (123, 538) -> (122, 539) -> (121, 540) -> (120, 541) -> (119, 542) -> (118, 543) -> (117, 544) -> (116, 545) -> (115, 546) -> (114, 547) -> (113, 548) -> (112, 549) -> (111, 550) -> (110, 551) -> (109, 552) -> (108, 553) -> (107, 554) -> (106, 555) -> (105, 556) -> (104, 557) -> (103, 558) -> (102, 559) -> (101, 560) -> (100, 561) -> (99, 562) -> (98, 563) -> (97, 564) -> (96, 565) -> (95, 566) - > (94, 567) -> (93, 568) -> (92, 569) -> (91, 570) -> (90, 571) - > (89, 572) -> (88, 573) -> (88, 574) -> (88, 575) -> (88, 576) - > (88, 577) -> (88, 578)	86	228.10 ms
(284, 166) -> (283, 166) -> (282, 166) -> (281, 166) -> (280, 166) -> (279, 166) -> (278, 166) -> (277, 166) -> (276, 166) -> (275, 166) -> (274, 166) -> (273, 166) -> (272, 166) -> (271, 166) -> (270, 166) -> (269, 166) ->	147	471.00 ms

(268, 166) -> (267, 166) -> (266, 166) -> (265, 166) -> (264, 166) -> (263, 166) -> (262, 166) -> (261, 166) -> (260, 166) -> (259, 166) -> (258, 166) -> (257, 166) -> (256, 166) -> (255, 166) -> (254, 166) -> (253, 166) -> (252, 166) -> (251, 166) -> (250, 166) -> (249, 166) -> (248, 166) -> (247, 166) -> (246, 166) -> (245, 166) -> (244, 166) -> (243, 166) -> (242, 166) -> (241, 166) -> (240, 166) -> (239, 166) -> (238, 166) -> (237, 166) -> (236, 166) -> (235, 166) -> (234, 166) -> (233, 166) -> (232, 166) -> (231, 166) -> (230, 166) -> (229, 166) -> (228, 166) -> (227, 166) -> (226, 166) -> (225, 166) -> (224, 166) -> (223, 166) -> (222, 166) -> (221, 166) -> (220, 166) -> (219, 166) -> (218, 166) -> (217, 166) -> (216, 166) -> (215, 166) -> (214, 166) -> (213, 166) -> (212, 166) -> (211, 166) -> (210, 166) -> (209, 166) -> (208, 166) -> (207, 166) -> (206, 166) -> (205, 166) -> (204, 166) -> (203, 166) -> (202, 166) -> (201, 166) -> (200, 166) -> (199, 166) -> (198, 166) -> (197, 166) -> (196, 166) -> (195, 166) -> (194, 166) -> (193, 166) -> (192, 166) -> (191, 166) -> (190, 166) -> (189, 166) -> (188, 166) -> (187, 166) -> (186, 166) -> (185, 166) -> (184, 166) -> (183, 166) -> (182, 166) -> (181, 166) -> (180, 166) -> (179, 166) -> (178, 166) -> (177, 166) -> (176, 166) -> (175, 166) -> (174, 166) -> (173, 166) -> (172, 166) -> (171, 166) -> (170, 166) -> (169, 166) -> (168, 166) -> (167, 167) -> (166, 168) -> (165, 169) -> (164, 170) -> (163, 171) -> (162, 172) -> (161, 173) -> (160, 174) -> (159, 175) ->		
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(158, 176) -> (157, 177) -> (156, 178) -> (155, 179) -> (154, 180) -> (153, 181) -> (152, 182) -> (151, 183) -> (150, 184) -> (149, 185) -> (148, 186) -> (147, 187) -> (146, 188) -> (145, 189) -> (144, 190) -> (143, 191) -> (142, 192) -> (141, 193) -> (140, 194) -> (139, 194) -> (138, 194) -> (137, 194)		
(785, 622) -> (784, 622) -> (783, 622) -> (782, 622) -> (781, 622) -> (780, 622) -> (779, 622) -> (778, 621) -> (777, 620) -> (776, 619) -> (775, 618) -> (774, 617) -> (773, 616) -> (772, 615) -> (771, 614) -> (770, 613) -> (769, 612) -> (768, 611) -> (767, 610) -> (766, 609) -> (765, 608) -> (764, 607) -> (763, 606) -> (762, 605) -> (761, 604) -> (760, 603) -> (759, 602) -> (758, 601) -> (757, 600) -> (756, 599) -> (755, 598) -> (754, 597) -> (753, 596) -> (752, 595) -> (751, 594) -> (750, 594) -> (749, 594) -> (748, 594) -> (747, 594) -> (746, 594) -> (745, 594) -> (744, 594) -> (743, 594) -> (742, 594) -> (741, 594) -> (740, 594) -> (739, 594) -> (738, 594) -> (737, 594) -> (736, 594) -> (735, 594) -> (734, 594) -> (733, 594) -> (732, 594) -> (731, 594) -> (730, 594) -> (729, 594) -> (728, 594) -> (727, 594) -> (726, 594) -> (725, 594) -> (724, 594) -> (723, 594) -> (722, 594) -> (721, 594) -> (720, 594) -> (719, 594) -> (718, 594) -> (717, 594) -> (716, 594) -> (715, 594) -> (714, 594) -> (713, 594) -> (712, 594) -> (711, 594) -> (710, 594) -> (709, 594) -> (708, 594) -> (707, 594) -> (706, 594) -> (705, 594) -> (704, 594) -> (703, 594) -> (702, 594) -> (701, 594) -> (700, 594) -> (699, 594) -> (698, 594) ->	596	3089.40 ms

(697, 594) -> (696, 594) -> (695, 594) -> (694, 594) -> (693, 594) -> (692, 594) -> (691, 594) -> (690, 594) -> (689, 594) -> (688, 594) -> (687, 594) -> (686, 594) -> (685, 594) -> (684, 594) -> (683, 594) -> (682, 594) -> (681, 594) -> (680, 594) -> (679, 594) -> (678, 594) -> (677, 594) -> (676, 594) -> (675, 594) -> (674, 594) -> (673, 594) -> (672, 594) -> (671, 594) -> (670, 594) -> (669, 595) -> (668, 595) -> (667, 596) -> (666, 596) -> (665, 597) -> (664, 598) -> (663, 598) -> (662, 599) -> (661, 599) -> (660, 600) -> (659, 600) -> (658, 601) -> (657, 602) -> (656, 602) -> (655, 603) -> (654, 603) -> (653, 604) -> (652, 605) -> (651, 605) -> (650, 606) -> (649, 606) -> (648, 607) -> (647, 607) -> (646, 608) -> (645, 608) -> (644, 608) -> (643, 608) -> (642, 608) -> (641, 608) -> (640, 608) -> (639, 608) -> (638, 608) -> (637, 608) -> (636, 608) -> (635, 608) -> (634, 608) -> (633, 608) -> (632, 608) -> (631, 608) -> (630, 608) -> (629, 608) -> (628, 608) -> (627, 608) -> (626, 608) -> (625, 608) -> (624, 608) -> (623, 608) -> (622, 608) -> (621, 608) -> (620, 608) -> (619, 608) -> (618, 608) -> (617, 608) -> (616, 608) -> (615, 608) -> (614, 608) -> (613, 608) -> (612, 608) -> (611, 608) -> (610, 608) -> (609, 608) -> (608, 608) -> (607, 608) -> (606, 608) -> (605, 608) -> (604, 608) -> (603, 608) -> (602, 608) -> (601, 608) -> (600, 608) -> (599, 608) -> (598, 608) -> (597, 608) -> (596, 608) -> (595, 608) -> (594, 608) -> (593, 608) -> (592, 608) -> (591, 608) -> (590, 608) -> (589, 608) -> (588, 608) ->		
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(587, 608) -> (586, 608) -> (585, 608) -> (584, 608) -> (583, 608) -> (582, 608) -> (581, 608) -> (580, 608) -> (579, 608) -> (578, 608) -> (577, 608) -> (576, 608) -> (575, 608) -> (574, 608) -> (573, 608) -> (572, 608) -> (571, 608) -> (570, 608) -> (569, 608) -> (568, 608) -> (567, 608) -> (566, 608) -> (565, 608) -> (564, 608) -> (563, 608) -> (562, 608) -> (561, 608) -> (560, 608) -> (559, 608) -> (558, 608) -> (557, 608) -> (556, 608) -> (555, 608) -> (554, 608) -> (553, 608) -> (552, 608) -> (551, 608) -> (550, 608) -> (549, 608) -> (548, 608) -> (547, 608) -> (546, 608) -> (545, 608) -> (544, 608) -> (543, 608) -> (542, 608) -> (541, 608) -> (540, 608) -> (539, 608) -> (538, 608) -> (537, 608) -> (536, 608) -> (535, 608) -> (534, 608) -> (533, 608) -> (532, 608) -> (531, 608) -> (530, 608) -> (529, 608) -> (528, 608) -> (527, 608) -> (526, 608) -> (525, 608) -> (524, 608) -> (523, 608) -> (522, 608) -> (521, 608) -> (520, 608) -> (519, 608) -> (518, 608) -> (517, 608) -> (516, 608) -> (515, 608) -> (514, 607) -> (513, 606) -> (512, 605) -> (511, 604) -> (510, 603) -> (509, 602) -> (508, 601) -> (507, 600) -> (506, 599) -> (505, 598) -> (504, 597) -> (503, 596) -> (502, 595) -> (501, 594) -> (500, 593) -> (499, 592) -> (498, 591) -> (497, 590) -> (496, 589) -> (495, 588) -> (494, 587) -> (493, 586) -> (492, 585) -> (491, 584) -> (490, 583) -> (489, 582) -> (488, 581) -> (487, 580) -> (486, 579) -> (485, 578) -> (484, 577) -> (483, 576) -> (482, 575) -> (481, 574) -> (480, 573) -> (479, 572) -> (478, 571) ->		
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(477, 570) -> (476, 569) -> (475, 568) -> (474, 567) -> (473, 566) -> (472, 565) -> (471, 564) -> (470, 563) -> (469, 562) -> (468, 561) -> (467, 560) -> (466, 559) -> (465, 558) -> (464, 557) -> (463, 556) -> (462, 555) -> (461, 554) -> (460, 553) -> (459, 552) -> (458, 551) -> (457, 550) -> (456, 549) -> (455, 548) -> (454, 547) -> (453, 546) -> (452, 545) -> (451, 544) -> (450, 543) -> (449, 542) -> (448, 541) -> (447, 540) -> (446, 539) -> (445, 538) -> (444, 537) -> (443, 536) -> (442, 535) -> (441, 534) -> (440, 533) -> (439, 532) -> (438, 531) -> (437, 530) -> (436, 529) -> (435, 528) -> (434, 527) -> (433, 526) -> (432, 525) -> (431, 524) -> (430, 523) -> (429, 522) -> (428, 521) -> (427, 520) -> (426, 519) -> (425, 518) -> (424, 517) -> (423, 516) -> (422, 515) -> (421, 514) -> (420, 513) -> (419, 512) -> (418, 511) -> (417, 510) -> (416, 509) -> (415, 508) -> (414, 507) -> (413, 506) -> (412, 505) -> (411, 504) -> (410, 503) -> (409, 502) -> (408, 501) -> (407, 500) -> (406, 499) -> (405, 498) -> (404, 497) -> (403, 496) -> (402, 495) -> (401, 494) -> (400, 493) -> (399, 492) -> (398, 491) -> (397, 490) -> (396, 489) -> (395, 488) -> (394, 487) -> (393, 486) -> (392, 485) -> (391, 484) -> (390, 483) -> (389, 482) -> (388, 481) -> (387, 480) -> (386, 479) -> (385, 478) -> (384, 477) -> (383, 476) -> (382, 475) -> (381, 474) -> (380, 473) -> (379, 472) -> (378, 471) -> (377, 470) -> (376, 469) -> (375, 468) -> (374, 468) -> (373, 468) -> (372, 468) -> (371, 468) -> (370, 468) -> (369, 468) -> (368, 468) ->		
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(367, 468) -> (366, 468) -> (365, 468) -> (364, 468) -> (363, 468) -> (362, 468) -> (361, 468) -> (360, 468) -> (359, 468) -> (358, 468) -> (357, 468) -> (356, 468) -> (355, 468) -> (354, 468) -> (353, 468) -> (352, 468) -> (351, 468) -> (350, 468) -> (349, 468) -> (348, 468) -> (347, 468) -> (346, 468) -> (345, 468) -> (344, 468) -> (343, 468) -> (342, 468) -> (341, 468) -> (340, 468) -> (339, 469) -> (338, 470) -> (337, 470) -> (336, 471) -> (335, 472) -> (334, 472) -> (333, 473) -> (332, 474) -> (331, 475) -> (330, 475) -> (329, 476) -> (328, 477) -> (327, 477) -> (326, 478) -> (325, 479) -> (324, 480) -> (323, 481) -> (322, 482) -> (321, 483) -> (320, 484) -> (319, 485) -> (318, 486) -> (317, 487) -> (316, 487) -> (315, 487) -> (314, 487) -> (313, 487) -> (312, 487) -> (311, 488) -> (310, 489) -> (309, 490) -> (308, 490) -> (307, 491) -> (306, 492) -> (305, 493) -> (304, 493) -> (303, 494) -> (302, 495) -> (301, 496) -> (300, 496) -> (299, 497) -> (298, 497) -> (297, 497) -> (296, 497) -> (295, 497) -> (294, 497) -> (293, 497) -> (292, 497) -> (291, 497) -> (290, 497) -> (289, 497) -> (288, 497) -> (287, 498) -> (286, 497) -> (285, 496) -> (284, 495) -> (284, 494) -> (283, 493) -> (282, 492) -> (281, 491) -> (280, 490) -> (279, 489) -> (278, 488) -> (277, 487) -> (276, 486) -> (275, 485) -> (274, 484) -> (273, 483) -> (272, 482) -> (271, 481) -> (270, 480) -> (269, 479) -> (268, 478) -> (267, 477) -> (266, 476) -> (265, 475) -> (264, 474) -> (263, 473) -> (262, 472) -> (261, 471) -> (260, 470) -> (259, 469) ->		
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(258, 468) -> (257, 467) -> (256, 466) -> (255, 465) -> (254, 464) -> (253, 463) -> (252, 462) -> (251, 461) -> (250, 460) -> (249, 459) -> (248, 458) -> (247, 457) -> (246, 456) -> (245, 455) -> (244, 454) -> (243, 453) -> (242, 452) -> (241, 451) -> (240, 450) -> (239, 449) -> (238, 448) -> (237, 447) -> (236, 446) -> (235, 445) -> (234, 444) -> (233, 443) -> (232, 442) -> (231, 441) -> (230, 440) -> (229, 439) -> (228, 438) -> (227, 437) -> (226, 436) -> (225, 435) -> (224, 434) -> (223, 433) -> (222, 432) -> (221, 431) -> (220, 430) -> (219, 429) -> (218, 428) -> (217, 427) -> (216, 426) -> (215, 425) -> (214, 424) -> (213, 423) -> (212, 422) -> (211, 421) -> (210, 420) -> (209, 419) -> (208, 418) -> (207, 417) -> (206, 416) -> (205, 415) -> (204, 414) -> (203, 413) -> (202, 412) -> (201, 411) -> (200, 410) -> (199, 409) -> (198, 408) -> (197, 407) -> (196, 406) -> (195, 405) -> (194, 404) -> (193, 403) -> (192, 402) -> (191, 401) -> (190, 400)		
(847, 79) -> (847, 80) -> (847, 81) -> (847, 82) -> (847, 83) -> (847, 84) -> (847, 85) -> (847, 86) -> (847, 87) -> (847, 88) -> (847, 89) -> (847, 90) -> (847, 91) -> (847, 92) -> (847, 93) -> (847, 94) -> (847, 95) -> (847, 96) -> (847, 97) -> (847, 98) -> (847, 99) -> (847, 100) -> (847, 101) -> (847, 102) -> (847, 103) -> (847, 104) -> (847, 105) -> (847, 106) -> (847, 107) -> (847, 108) -> (847, 109) -> (847, 110) -> (847, 111) -> (847, 112) -> (847, 113) -> (847, 114) -> (847, 115) -> (847, 116) -> (847, 117) -> (847, 118) -> (847, 119) -> (847, 120) -> (847, 121) -> (847, 122) ->	857	1512.20 ms

(847, 123) -> (847, 124) -> (847, 125) -> (847, 126) -> (847, 127) -> (847, 128) -> (847, 129) -> (847, 130) -> (847, 131) -> (847, 132) -> (847, 133) -> (847, 134) -> (847, 135) -> (847, 136) -> (847, 137) -> (847, 138) -> (847, 139) -> (847, 140) -> (847, 141) -> (847, 142) -> (847, 143) -> (847, 144) -> (847, 145) -> (847, 146) -> (847, 147) -> (847, 148) -> (847, 149) -> (847, 150) -> (847, 151) -> (847, 152) -> (847, 153) -> (847, 154) -> (847, 155) -> (847, 156) -> (847, 157) -> (847, 158) -> (847, 159) -> (847, 160) -> (847, 161) -> (847, 162) -> (847, 163) -> (847, 164) -> (847, 165) -> (847, 166) -> (847, 167) -> (847, 168) -> (847, 169) -> (847, 170) -> (847, 171) -> (847, 172) -> (846, 173) -> (845, 174) -> (844, 175) -> (843, 176) -> (842, 177) -> (841, 178) -> (840, 179) -> (839, 180) -> (838, 181) -> (837, 182) -> (836, 183) -> (835, 184) -> (834, 185) -> (833, 186) -> (832, 187) -> (831, 188) -> (830, 189) -> (829, 190) -> (828, 191) -> (827, 192) -> (826, 193) -> (825, 194) -> (824, 195) -> (823, 196) -> (822, 197) -> (821, 198) -> (820, 199) -> (819, 200) -> (818, 201) -> (817, 202) -> (816, 203) -> (815, 204) -> (814, 205) -> (813, 206) -> (812, 207) -> (811, 208) -> (810, 209) -> (809, 210) -> (808, 211) -> (807, 212) -> (806, 213) -> (805, 214) -> (804, 215) -> (803, 216) -> (802, 217) -> (801, 218) -> (800, 219) -> (799, 220) -> (798, 221) -> (797, 222) -> (796, 223) -> (795, 224) -> (794, 225) -> (793, 226) -> (792, 227) -> (791, 228) -> (790, 229) -> (789, 230) -> (788, 231) -> (787, 232) ->		
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(786, 233) -> (785, 234) -> (784, 235) -> (783, 236) -> (782, 237) -> (781, 238) -> (780, 239) -> (779, 240) -> (778, 241) -> (777, 242) -> (776, 243) -> (775, 244) -> (774, 245) -> (773, 246) -> (772, 247) -> (771, 248) -> (770, 249) -> (769, 250) -> (768, 251) -> (767, 252) -> (766, 253) -> (765, 254) -> (764, 255) -> (763, 256) -> (762, 257) -> (761, 258) -> (760, 259) -> (759, 260) -> (758, 261) -> (757, 262) -> (756, 263) -> (755, 264) -> (754, 265) -> (753, 266) -> (752, 267) -> (751, 268) -> (750, 269) -> (749, 270) -> (748, 271) -> (747, 272) -> (746, 273) -> (745, 274) -> (744, 275) -> (743, 276) -> (742, 277) -> (741, 278) -> (740, 279) -> (739, 280) -> (738, 281) -> (737, 282) -> (736, 283) -> (735, 284) -> (734, 285) -> (733, 286) -> (732, 287) -> (731, 288) -> (730, 289) -> (729, 290) -> (728, 291) -> (727, 292) -> (726, 293) -> (725, 294) -> (724, 295) -> (723, 296) -> (722, 297) -> (721, 298) -> (720, 299) -> (719, 300) -> (718, 301) -> (717, 302) -> (716, 303) -> (715, 304) -> (714, 305) -> (713, 306) -> (712, 307) -> (711, 308) -> (710, 309) -> (709, 310) -> (708, 311) -> (707, 312) -> (706, 313) -> (705, 314) -> (704, 315) -> (703, 316) -> (702, 317) -> (701, 318) -> (700, 319) -> (699, 320) -> (698, 321) -> (697, 322) -> (696, 323) -> (695, 324) -> (694, 325) -> (693, 326) -> (692, 327) -> (691, 328) -> (690, 329) -> (689, 330) -> (688, 331) -> (687, 332) -> (686, 333) -> (685, 334) -> (684, 335) -> (683, 336) -> (682, 337) -> (681, 338) -> (680, 339) -> (679, 340) -> (678, 341) -> (677, 342) ->		
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(581, 673) -> (581, 674) -> (581, 675) -> (581, 676) -> (581, 677) -> (581, 678) -> (581, 679) -> (581, 680) -> (581, 681) -> (581, 682) -> (581, 683) -> (581, 684) -> (581, 685) -> (581, 686) -> (581, 687) -> (581, 688) -> (581, 689) -> (581, 690) -> (581, 691) -> (581, 692) -> (581, 693) -> (581, 694) -> (581, 695) -> (581, 696) -> (581, 697) -> (581, 698) -> (581, 699) -> (581, 700) -> (581, 701) -> (581, 702) -> (581, 703) -> (581, 704) -> (581, 705) -> (581, 706) -> (581, 707) -> (581, 708) -> (581, 709) -> (581, 710) -> (581, 711) -> (581, 712) -> (581, 713) -> (581, 714) -> (581, 715) -> (581, 716) -> (581, 717) -> (581, 718) -> (581, 719) -> (581, 720) -> (581, 721) -> (581, 722) -> (581, 723) -> (581, 724) -> (581, 725) -> (581, 726) -> (581, 727) -> (581, 728) -> (581, 729) -> (581, 730) -> (581, 731) -> (581, 732) -> (581, 733) -> (581, 734) -> (581, 735) -> (581, 736) -> (581, 737) -> (581, 738) -> (581, 739) -> (581, 740) -> (581, 741) -> (581, 742) -> (581, 743) -> (581, 744) -> (581, 745) -> (581, 746) -> (581, 747) -> (581, 748) -> (581, 749) -> (581, 750) -> (581, 751) -> (581, 752) -> (581, 753) -> (581, 754) -> (581, 755) -> (581, 756) -> (581, 757) -> (581, 758) -> (581, 759) -> (581, 760) -> (581, 761) -> (581, 762) -> (581, 763) -> (581, 764) -> (581, 765) -> (581, 766) -> (581, 767) -> (581, 768) -> (581, 769) -> (581, 770) -> (580, 771) -> (579, 772) -> (578, 773) -> (577, 774) -> (576, 775) -> (575, 776) -> (574, 777) -> (573, 778) -> (572, 779) -> (571, 780) -> (570, 781) -> (569, 782) ->		
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(568, 783) -> (567, 784) -> (566, 785) -> (565, 786) -> (564, 787) -> (563, 788) -> (562, 789) -> (561, 790) -> (560, 791) -> (559, 792) -> (558, 793) -> (557, 794) -> (556, 795) -> (555, 796) -> (554, 797) -> (553, 798) -> (552, 799) -> (551, 800) -> (550, 801) -> (549, 802) -> (548, 803) -> (547, 804) -> (546, 805) -> (545, 806) -> (544, 807) -> (543, 808) -> (542, 809) -> (541, 810) -> (540, 811) -> (539, 812) -> (538, 813) -> (537, 814) -> (536, 815) -> (535, 816) -> (534, 817) -> (533, 818) -> (532, 819) -> (531, 820) -> (530, 821) -> (529, 822) -> (528, 823) -> (527, 824) -> (526, 825) -> (525, 826) -> (524, 827) -> (523, 828) -> (522, 829) -> (521, 830) -> (520, 831) -> (519, 832) -> (518, 833) -> (517, 834) -> (517, 835) -> (517, 836) -> (517, 837) -> (517, 838) -> (517, 839) -> (517, 840) -> (517, 841) -> (517, 842) -> (517, 843) -> (517, 844) -> (517, 845) -> (517, 846) -> (517, 847) -> (517, 848) -> (517, 849) -> (517, 850) -> (517, 851) -> (517, 852) -> (517, 853) -> (517, 854) -> (517, 855) -> (517, 856) -> (517, 857) -> (517, 858) -> (517, 859) -> (518, 860) -> (519, 861) -> (520, 862) -> (521, 863) -> (522, 864) -> (523, 865) -> (524, 866) -> (525, 867) -> (526, 868) -> (527, 869) -> (528, 870) -> (529, 871) -> (530, 872) -> (531, 873) -> (532, 874) -> (533, 875) -> (534, 876) -> (535, 877) -> (536, 878) -> (537, 879) -> (538, 880) -> (539, 881) -> (540, 882) -> (541, 883) -> (542, 884) -> (543, 885) -> (544, 886) -> (545, 887) -> (546, 888) -> (547, 889) -> (548, 890) -> (549, 891) -> (550, 892) ->		
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(369, 191) -> (370, 191) -> (371, 191) -> (372, 191) -> (373, 191) -> (374, 191) -> (375, 191) -> (376, 191) -> (377, 191) -> (378, 191) -> (379, 191) -> (380, 191) -> (381, 191) -> (382, 191) -> (383, 191) -> (384, 191) -> (385, 191) -> (386, 191) -> (387, 191) -> (388, 191) -> (389, 191) -> (390, 191) -> (391, 191) -> (392, 191) -> (393, 191) -> (394, 191) -> (395, 191) -> (396, 191) -> (397, 191) -> (398, 191) -> (399, 191) -> (400, 191) -> (401, 191) -> (402, 191) -> (403, 191) -> (404, 191) -> (405, 191) -> (406, 191) -> (407, 191) -> (408, 191) -> (409, 191) -> (410, 191) -> (411, 191) -> (412, 191) -> (413, 191) -> (414, 191) -> (415, 191) -> (416, 191) -> (417, 191) -> (418, 191) -> (419, 191) -> (420, 191) -> (421, 191) -> (422, 191) -> (423, 191) -> (424, 191) -> (425, 191) -> (426, 191) -> (427, 191) -> (428, 191) -> (429, 191) -> (430, 191) -> (431, 191) -> (432, 191) -> (433, 192) -> (434, 193) -> (435, 194) -> (436, 195) -> (437, 196) -> (438, 197) -> (439, 198) -> (440, 199) -> (441, 200) -> (442, 201) -> (443, 202) -> (444, 203) -> (445, 204) -> (446, 205) -> (447, 206) -> (448, 207) -> (449, 208) -> (450, 209) -> (451, 210) -> (452, 211) -> (453, 212) -> (454, 213) -> (455, 214) -> (456, 215) -> (457, 216) -> (458, 217) -> (459, 218) -> (460, 219) -> (461, 220) -> (462, 221) -> (463, 222) -> (464, 223) -> (465, 224) -> (466, 225) -> (467, 226) -> (468, 227) -> (469, 228) -> (470, 229) -> (471, 230) -> (472, 231) -> (473, 232) -> (474, 233) -> (475, 234) -> (476, 235) -> (477, 236) -> (478, 237) ->		
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(479, 238) -> (480, 239) -> (481, 240) -> (482, 241) -> (483, 242) -> (484, 243) -> (485, 244) -> (486, 245) -> (487, 246) -> (488, 247) -> (489, 248) -> (490, 249) -> (490, 250) -> (491, 251) -> (492, 252) -> (493, 253) -> (494, 254) -> (495, 255) -> (496, 256) -> (497, 257) -> (498, 258) -> (499, 259) -> (500, 260) -> (501, 261) -> (502, 262) -> (503, 263) -> (504, 264) -> (505, 265) -> (506, 266) -> (507, 267) -> (508, 268) -> (509, 269) -> (510, 270) -> (511, 271) -> (512, 272) -> (513, 273) -> (514, 274) -> (515, 275) -> (516, 276) -> (517, 277) -> (518, 278) -> (519, 279) -> (520, 280) -> (521, 281) -> (522, 282) -> (523, 283) -> (524, 284) -> (525, 285) -> (526, 286) -> (527, 287) -> (528, 288) -> (529, 289) -> (530, 290) -> (531, 291) -> (532, 292) -> (533, 293) -> (534, 294) -> (535, 295) -> (536, 296) -> (537, 297) -> (538, 298) -> (539, 299) -> (540, 300) -> (541, 301) -> (542, 302) -> (543, 303) -> (544, 304) -> (545, 305) -> (546, 306) -> (547, 307) -> (548, 308) -> (549, 309) -> (550, 310) -> (551, 311) -> (552, 312) -> (553, 313) -> (554, 314) -> (555, 315) -> (556, 316) -> (557, 317) -> (558, 318) -> (559, 319) -> (560, 320) -> (561, 321) -> (562, 322) -> (563, 323) -> (564, 324) -> (565, 325) -> (566, 326) -> (567, 327) -> (568, 328) -> (569, 329) -> (570, 330) -> (571, 331) -> (572, 332) -> (573, 333) -> (574, 334) -> (575, 335) -> (576, 336) -> (577, 337) -> (578, 338) -> (579, 339) -> (580, 340) -> (581, 341) -> (582, 342) -> (583, 343) -> (584, 344) -> (585, 345) -> (586, 346) -> (587, 347) ->		
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(808, 568) -> (809, 569) -> (810, 570) -> (811, 571) -> (812, 572) -> (813, 573) -> (814, 574) -> (815, 575) -> (816, 576) -> (817, 577) -> (818, 578) -> (819, 579) -> (820, 580) -> (821, 581) -> (822, 582) -> (823, 583) -> (824, 584) -> (825, 585) -> (826, 586) -> (827, 587) -> (828, 588) -> (829, 589) -> (830, 590) -> (831, 591) -> (832, 592) -> (833, 593) -> (834, 594) -> (835, 595) -> (836, 596) -> (837, 597) -> (838, 598) -> (839, 599) -> (840, 600) -> (841, 601) -> (842, 602) -> (843, 603) -> (844, 604) -> (845, 605) -> (846, 606) -> (847, 607) -> (848, 608) -> (849, 609) -> (850, 610) -> (851, 611) -> (852, 612) -> (853, 613) -> (854, 614) -> (855, 615) -> (856, 616) -> (857, 617) -> (858, 618) -> (859, 619) -> (860, 620) -> (861, 621) -> (862, 622) -> (863, 623) -> (864, 624) -> (865, 625) -> (866, 626) -> (867, 627) -> (868, 628) -> (869, 629) -> (870, 630) -> (871, 631) -> (872, 632) -> (873, 633) -> (874, 634) -> (875, 635) -> (876, 636) -> (877, 637) -> (878, 638) -> (879, 639) -> (880, 640) -> (881, 641) -> (882, 642) -> (883, 643) -> (884, 644) -> (885, 645) -> (886, 646) -> (887, 647) -> (888, 648) -> (889, 649) -> (890, 650) -> (891, 651) -> (892, 652) -> (893, 653) -> (894, 654) -> (895, 655) -> (896, 656) -> (897, 657) -> (898, 658) -> (899, 659) -> (900, 660) -> (901, 661) -> (902, 662) -> (903, 663) -> (904, 664) -> (905, 665) -> (906, 666) -> (907, 667) -> (908, 668) -> (909, 669) -> (910, 670) -> (911, 671) -> (912, 672) -> (913, 673) -> (914, 674) -> (915, 675) -> (916, 676) -> (917, 677) ->		
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(918, 678) -> (919, 679) -> (920, 680) -> (921, 681) -> (922, 682) -> (923, 683) -> (924, 684) -> (925, 685) -> (926, 686) -> (927, 687) -> (928, 688) -> (929, 689) -> (930, 690) -> (931, 691) -> (932, 692) -> (933, 693) -> (934, 694) -> (935, 695) -> (936, 696) -> (937, 697) -> (938, 698) -> (939, 699) -> (940, 700) -> (941, 701) -> (942, 702) -> (943, 703) -> (944, 704) -> (945, 705) -> (946, 706) -> (947, 707) -> (948, 708) -> (949, 709) -> (950, 710) -> (951, 711) -> (952, 712) -> (953, 713) -> (954, 714) -> (955, 715) -> (956, 716) -> (957, 717) -> (958, 718) -> (959, 719) -> (960, 720) -> (961, 721) -> (962, 722) -> (963, 723) -> (964, 724) -> (965, 725) -> (966, 726) -> (967, 727) -> (968, 728) -> (969, 729) -> (970, 730) -> (971, 731) -> (972, 732) -> (973, 733) -> (974, 734) -> (975, 735) -> (976, 736) -> (977, 737) -> (978, 738) -> (979, 739) -> (980, 740) -> (981, 741) -> (982, 742) -> (983, 743) -> (984, 744) -> (985, 745) -> (986, 746) -> (987, 747) -> (988, 748) -> (989, 749) -> (990, 750) -> (991, 751) -> (992, 752) -> (993, 753) -> (994, 754) -> (995, 755) -> (996, 756) -> (997, 757) -> (998, 758) -> (999, 759) -> (1000, 760) -> (1001, 761) -> (1002, 762) -> (1003, 763) -> (1004, 764) -> (1005, 765) -> (1006, 766) -> (1007, 767) -> (1007, 768) -> (1007, 769) -> (1007, 770) -> (1007, 771) -> (1007, 772) -> (1007, 773) -> (1007, 774) -> (1007, 775) -> (1007, 776) -> (1007, 777) -> (1007, 778) -> (1007, 779) -> (1007, 780) -> (1007, 781) -> (1007, 782) -> (1007, 783) -> (1007, 784) -> (1007, 785) -> (1007, 786) -> (1007, 787) ->		
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(900, 659) -> (899, 658) -> (898, 657) -> (897, 656) -> (896, 655) -> (895, 654) -> (894, 653) -> (893, 652) -> (892, 651) -> (891, 650) -> (890, 649) -> (889, 648) -> (888, 647) -> (887, 646) -> (886, 645) -> (885, 644) -> (884, 643) -> (883, 642) -> (882, 641) -> (881, 640) -> (880, 639) -> (879, 638) -> (878, 637) -> (877, 636) -> (876, 635) -> (875, 634) -> (874, 633) -> (873, 632) -> (872, 631) -> (871, 630) -> (870, 629) -> (869, 628) -> (868, 627) -> (867, 626) -> (866, 625) -> (865, 624) -> (864, 623) -> (863, 622) -> (862, 621) -> (861, 620) -> (860, 619) -> (859, 618) -> (858, 617) -> (857, 616) -> (856, 615) -> (855, 614) -> (854, 613) -> (853, 612) -> (852, 611) -> (851, 610) -> (850, 609) -> (849, 608) -> (848, 607) -> (847, 606) -> (846, 605) -> (845, 604) -> (844, 603) -> (843, 602) -> (842, 601) -> (841, 600) -> (840, 599) -> (839, 598) -> (838, 597) -> (837, 596) -> (836, 595) -> (835, 594) -> (834, 593) -> (833, 592) -> (832, 591) -> (831, 590) -> (830, 589) -> (829, 588) -> (828, 587) -> (827, 586) -> (826, 585) -> (825, 584) -> (824, 583) -> (823, 582) -> (822, 581) -> (821, 580) -> (820, 579) -> (819, 578) -> (818, 577) -> (817, 576) -> (816, 575) -> (815, 574) -> (814, 573) -> (813, 572) -> (812, 571) -> (811, 570) -> (810, 569) -> (809, 568) -> (808, 567) -> (807, 566) -> (806, 565) -> (805, 564) -> (804, 563) -> (803, 562) -> (802, 561) -> (801, 560) -> (800, 559) -> (799, 558) -> (798, 557) -> (797, 556) -> (796, 555) -> (795, 554) -> (794, 553) -> (793, 552) -> (792, 551) -> (791, 550) ->		
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(790, 549) -> (789, 548) -> (788, 547) -> (787, 546) -> (786, 545) -> (785, 544) -> (784, 543) -> (783, 542) -> (782, 541) -> (781, 540) -> (780, 539) -> (779, 538) -> (778, 537) -> (777, 536) -> (776, 535) -> (775, 534) -> (774, 533) -> (773, 532) -> (772, 531) -> (771, 530) -> (770, 529) -> (769, 528) -> (768, 527) -> (767, 526) -> (766, 525) -> (765, 524) -> (764, 523) -> (763, 522) -> (762, 521) -> (761, 520) -> (760, 519) -> (759, 518) -> (758, 517) -> (757, 516) -> (756, 515) -> (755, 514) -> (754, 513) -> (753, 512) -> (752, 511) -> (751, 510) -> (750, 509) -> (749, 508) -> (748, 507) -> (747, 506) -> (746, 505) -> (745, 504) -> (744, 503) -> (743, 502) -> (742, 501) -> (741, 500) -> (740, 499) -> (739, 498) -> (738, 497) -> (737, 496) -> (736, 495) -> (735, 494) -> (734, 493) -> (733, 492) -> (732, 491) -> (731, 490) -> (730, 489) -> (729, 488) -> (728, 487) -> (727, 486) -> (726, 485) -> (725, 484) -> (724, 483) -> (723, 482) -> (722, 481) -> (721, 480) -> (720, 479) -> (719, 478) -> (718, 477) -> (717, 476) -> (716, 475) -> (715, 474) -> (714, 473) -> (713, 472) -> (712, 471) -> (711, 470) -> (710, 469) -> (709, 468) -> (708, 467) -> (707, 466) -> (706, 465) -> (705, 464) -> (704, 463) -> (703, 462) -> (702, 461) -> (701, 460) -> (700, 459) -> (699, 458) -> (698, 457) -> (697, 456) -> (696, 455) -> (695, 454) -> (694, 453) -> (693, 452) -> (692, 451) -> (691, 450) -> (690, 449) -> (689, 448) -> (688, 447) -> (687, 446) -> (686, 445) -> (685, 444) -> (684, 443) -> (683, 442) -> (682, 441) -> (681, 440) ->		
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(680, 439) -> (679, 438) -> (678, 437) -> (677, 436) -> (676, 435) -> (675, 434) -> (674, 433) -> (673, 432) -> (672, 431) -> (671, 430) -> (670, 429) -> (669, 428) -> (668, 427) -> (667, 426) -> (666, 425) -> (665, 424) -> (664, 423) -> (663, 422) -> (662, 421) -> (661, 420) -> (660, 419) -> (659, 418) -> (658, 417) -> (657, 416) -> (656, 415) -> (655, 414) -> (654, 413) -> (653, 412) -> (652, 411) -> (651, 410) -> (650, 409) -> (649, 408) -> (648, 407) -> (647, 406) -> (646, 405) -> (645, 404) -> (644, 403) -> (643, 402) -> (642, 401) -> (641, 400) -> (640, 399) -> (639, 398) -> (638, 397) -> (637, 396) -> (636, 395) -> (635, 394) -> (634, 393) -> (633, 392) -> (632, 391) -> (631, 390) -> (630, 389) -> (629, 388) -> (628, 387) -> (627, 386) -> (626, 385) -> (625, 384) -> (624, 383) -> (623, 382) -> (622, 381) -> (621, 380) -> (620, 379) -> (619, 378) -> (618, 377) -> (617, 376) -> (616, 375) -> (615, 374) -> (614, 373) -> (613, 372) -> (612, 371) -> (611, 370) -> (610, 369) -> (609, 368) -> (608, 367) -> (607, 366) -> (606, 365) -> (605, 364) -> (604, 363) -> (603, 362) -> (602, 361) -> (601, 360) -> (600, 359) -> (599, 358) -> (598, 357) -> (597, 356) -> (596, 355) -> (595, 354) -> (594, 353) -> (593, 352) -> (592, 351) -> (591, 350) -> (590, 349) -> (589, 348) -> (588, 347) -> (587, 346) -> (586, 345) -> (585, 344) -> (584, 343) -> (583, 342) -> (582, 341) -> (581, 340) -> (580, 339) -> (579, 338) -> (578, 337) -> (577, 336) -> (576, 335) -> (575, 334) -> (574, 333) -> (573, 332) -> (572, 331) -> (571, 330) ->		
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(570, 329) -> (569, 328) -> (568, 327) -> (567, 326) -> (566, 325) -> (565, 324) -> (564, 323) -> (563, 322) -> (562, 321) -> (561, 320) -> (560, 319) -> (559, 318) -> (558, 317) -> (557, 316) -> (556, 315) -> (555, 314) -> (554, 313) -> (553, 312) -> (552, 311) -> (551, 310) -> (550, 309) -> (549, 308) -> (548, 307) -> (547, 306) -> (546, 305) -> (545, 304) -> (544, 303) -> (543, 302) -> (542, 301) -> (541, 300) -> (540, 299) -> (539, 298) -> (538, 297) -> (537, 296) -> (536, 295) -> (535, 294) -> (534, 293) -> (533, 292) -> (532, 291) -> (531, 290) -> (530, 289) -> (529, 288) -> (528, 287) -> (527, 286) -> (526, 285) -> (525, 284) -> (524, 283) -> (523, 282) -> (522, 281) -> (521, 280) -> (520, 279) -> (519, 278) -> (518, 277) -> (517, 276) -> (516, 275) -> (515, 274) -> (514, 273) -> (513, 272) -> (512, 271) -> (511, 270) -> (510, 269) -> (509, 268) -> (508, 267) -> (507, 266) -> (506, 265) -> (505, 264) -> (504, 263) -> (503, 262) -> (502, 261) -> (501, 260) -> (500, 259) -> (499, 258) -> (498, 257) -> (497, 256) -> (496, 255) -> (495, 254) -> (494, 253) -> (493, 252) -> (492, 251) -> (491, 250) -> (490, 249) -> (489, 248) -> (488, 247) -> (487, 246) -> (486, 245) -> (485, 245) -> (484, 245) -> (483, 245) -> (482, 244) -> (481, 243) -> (480, 242) -> (479, 241) -> (478, 240) -> (477, 239) -> (476, 238) -> (475, 237) -> (474, 236) -> (473, 235) -> (472, 234) -> (471, 233) -> (470, 232) -> (469, 231) -> (468, 230) -> (467, 229) -> (466, 228) -> (465, 227) -> (464, 226) -> (463, 225) -> (462, 224) -> (461, 223) ->		
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(460, 222) -> (459, 221) -> (458, 220) -> (457, 219) -> (456, 218) -> (455, 217) -> (454, 216) -> (453, 216) -> (452, 216) -> (451, 216) -> (450, 216) -> (449, 216) -> (448, 216) -> (447, 216) -> (446, 216) -> (445, 216) -> (444, 216) -> (443, 216) -> (442, 216) -> (441, 216) -> (440, 216) -> (439, 216) -> (438, 216) -> (437, 216) -> (436, 216) -> (435, 216) -> (434, 216) -> (433, 216) -> (432, 216) -> (431, 216) -> (430, 216) -> (429, 216) -> (428, 216) -> (427, 216) -> (426, 216) -> (425, 216) -> (424, 216) -> (423, 216) -> (422, 216) -> (421, 216) -> (420, 216) -> (419, 216) -> (418, 216) -> (417, 216) -> (416, 216) -> (415, 216) -> (414, 216) -> (413, 216) -> (412, 216) -> (411, 216) -> (410, 216) -> (409, 216) -> (408, 216) -> (407, 216) -> (406, 216) -> (405, 216) -> (404, 216) -> (403, 216) -> (402, 216) -> (401, 216) -> (400, 216) -> (399, 216) -> (398, 216) -> (397, 216) -> (396, 216) -> (395, 216) -> (394, 216) -> (393, 216) -> (392, 216) -> (391, 216) -> (390, 216) -> (389, 216) -> (388, 216) -> (387, 216) -> (386, 216) -> (385, 216) -> (384, 216) -> (383, 216) -> (382, 216) -> (381, 216) -> (380, 216) -> (379, 216) -> (378, 216) -> (377, 216) -> (376, 216) -> (375, 216) -> (374, 216) -> (373, 216) -> (372, 216) -> (371, 216) -> (370, 216) -> (369, 216) -> (368, 216) -> (367, 216) -> (366, 216) -> (365, 216) -> (364, 216) -> (363, 216) -> (362, 216) -> (361, 216) -> (360, 216) -> (359, 216) -> (358, 216) -> (357, 216) -> (356, 216) -> (355, 216) -> (354, 216) -> (353, 216) -> (352, 216) -> (351, 216) ->		
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(350, 216) -> (349, 215) -> (348, 214) -> (347, 213) -> (346, 212) -> (345, 211) -> (344, 210) -> (343, 209) -> (342, 208) -> (341, 207) -> (340, 206) -> (339, 205) -> (338, 204) -> (337, 203) -> (336, 202) -> (335, 201) -> (334, 200) -> (333, 199) -> (332, 198) -> (331, 197) -> (330, 196) -> (329, 195) -> (328, 194) -> (327, 193) -> (326, 192) -> (325, 191) -> (324, 191) -> (323, 191) -> (322, 191) -> (321, 190) -> (320, 190) -> (319, 190) -> (318, 190) -> (317, 189) -> (316, 188) -> (315, 187) -> (314, 186) -> (313, 185) -> (312, 184) -> (311, 183) -> (310, 182) -> (309, 181) -> (308, 180) -> (307, 179) -> (306, 178) -> (305, 177) -> (304, 176) -> (303, 175) -> (302, 174) -> (301, 173) -> (300, 172) -> (299, 171) -> (298, 170) -> (297, 169) -> (296, 168) -> (295, 167) -> (294, 166) -> (293, 165) -> (292, 164) -> (291, 163) -> (290, 162) -> (289, 161) -> (288, 160) -> (287, 159) -> (286, 158) -> (285, 157) -> (284, 156) -> (283, 155) -> (282, 154) -> (281, 153) -> (280, 152) -> (279, 151) -> (278, 150) -> (277, 149) -> (276, 148) -> (275, 147) -> (274, 146) -> (273, 145) -> (272, 144) -> (271, 143) -> (270, 142) -> (269, 141) -> (268, 140) -> (267, 139) -> (266, 138) -> (265, 137) -> (264, 136) -> (263, 135) -> (262, 134) -> (261, 133) -> (260, 132) -> (259, 131) -> (258, 130) -> (257, 129) -> (256, 128) -> (255, 127) -> (254, 126) -> (253, 125) -> (252, 124) -> (251, 123) -> (250, 122) -> (249, 121) -> (248, 120) -> (247, 119) -> (246, 118) -> (245, 117) -> (244, 116) -> (243, 115) -> (242, 114) -> (241, 113) ->		
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(240, 112) -> (239, 111) ->
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 (232, 104) -> (231, 103) ->
 (230, 102) -> (229, 101) ->
 (228, 100) -> (227, 99) ->
 (226, 98) -> (225, 97) -> (224,
 96) -> (223, 95) -> (222, 94) ->
 (221, 93) -> (220, 92) -> (219,
 91) -> (218, 90) -> (217, 89) ->
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 -> (133, 5) -> (132, 4) -> (131,
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3) -> (170, 3) -> (171, 3) ->
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(312, 71) -> (313, 72) -> (314, 73) -> (315, 74) -> (316, 75) -> (317, 76) -> (318, 77) -> (319, 78) -> (320, 79) -> (321, 80) -> (322, 81) -> (323, 82) -> (324, 83) -> (325, 84) -> (326, 85) -> (327, 86) -> (328, 87) -> (329, 88) -> (330, 89) -> (331, 90) -> (332, 91) -> (333, 92) -> (334, 93) -> (335, 94) -> (336, 95) -> (337, 96) -> (338, 97) -> (339, 98) -> (340, 99) -> (341, 100) -> (342, 101) -> (343, 102) -> (344, 103) -> (345, 104) -> (346, 105) -> (347, 106) -> (348, 107) -> (349, 108) -> (350, 109) -> (351, 110) -> (352, 111) -> (353, 112) -> (354, 113) -> (355, 114) -> (356, 115) -> (357, 116) -> (358, 117) -> (359, 118) -> (360, 119) -> (361, 120) -> (362, 121) -> (363, 122) -> (364, 123) -> (365, 124) -> (366, 125) -> (367, 126) -> (368, 127) -> (369, 128) -> (370, 129) -> (371, 130) -> (372, 131) -> (373, 132) -> (374, 133) -> (375, 134) -> (376, 135) -> (377, 136) -> (378, 137) -> (379, 138) -> (380, 139) -> (381, 140) -> (382, 141) -> (383, 142) -> (384, 143) -> (385, 144) -> (386, 145) -> (387, 146) -> (388, 147) -> (389, 148) -> (390, 149) -> (391, 150) -> (392, 151) -> (393, 152) -> (394, 153) -> (395, 154) -> (396, 155) -> (397, 156) -> (398, 157) -> (399, 158) -> (400, 159) -> (401, 160) -> (402, 161) -> (403, 162) -> (404, 163) -> (405, 164) -> (406, 165) -> (407, 166) -> (408, 167) -> (409, 168) -> (410, 169) -> (411, 170) -> (412, 171) -> (413, 172) -> (414, 173) -> (415, 174) -> (416, 175) -> (417, 176) -> (418, 177) -> (419, 178) -> (420, 179) -> (421, 180) -> (422, 181) -> (423, 182) -> (424, 183) -> (425, 184) -> (426, 185) -> (427, 186) ->

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(537, 297) -> (538, 298) -> (539, 299) -> (540, 300) -> (541, 301) -> (542, 302) -> (543, 303) -> (544, 304) -> (545, 305) -> (546, 306) -> (547, 307) -> (548, 308) -> (549, 309) -> (550, 310) -> (551, 311) -> (552, 312) -> (553, 313) -> (554, 314) -> (555, 315) -> (556, 316) -> (557, 317) -> (558, 318) -> (559, 319) -> (560, 320) -> (561, 321) -> (562, 322) -> (563, 323) -> (564, 324) -> (565, 325) -> (566, 326) -> (567, 327) -> (568, 328) -> (569, 329) -> (570, 330) -> (571, 331) -> (572, 332) -> (573, 333) -> (574, 334) -> (575, 335) -> (576, 336) -> (577, 337) -> (578, 338) -> (579, 339) -> (580, 340) -> (581, 341) -> (582, 342) -> (583, 343) -> (584, 344) -> (585, 345) -> (586, 346) -> (587, 347) -> (588, 348) -> (589, 349) -> (590, 350) -> (591, 351) -> (592, 352) -> (593, 353) -> (594, 354) -> (595, 355) -> (596, 356) -> (597, 357) -> (598, 358) -> (599, 359) -> (600, 360) -> (601, 361) -> (602, 362) -> (603, 363) -> (604, 364) -> (605, 365) -> (606, 366) -> (607, 367) -> (608, 368) -> (609, 369) -> (610, 370) -> (611, 371) -> (612, 372) -> (613, 373) -> (614, 374) -> (615, 375) -> (616, 376) -> (617, 377) -> (618, 378) -> (619, 379) -> (620, 380) -> (621, 381) -> (622, 382) -> (623, 383) -> (624, 384) -> (625, 385) -> (626, 386) -> (627, 387) -> (628, 388) -> (629, 389) -> (630, 390) -> (631, 391) -> (632, 392) -> (633, 393) -> (634, 394) -> (635, 395) -> (636, 396) -> (637, 397) -> (638, 398) -> (639, 399) -> (640, 400) -> (641, 401) -> (642, 402) -> (643, 403) -> (644, 404) -> (645, 405) -> (646, 406) ->		
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(647, 407) -> (648, 408) -> (649, 409) -> (650, 410) -> (651, 411) -> (652, 412) -> (653, 413) -> (654, 414) -> (655, 415) -> (656, 416) -> (657, 417) -> (658, 418) -> (659, 419) -> (660, 420) -> (661, 421) -> (662, 422) -> (663, 423) -> (664, 424) -> (665, 425) -> (666, 426) -> (667, 427) -> (668, 428) -> (669, 429) -> (670, 430) -> (671, 431) -> (672, 432) -> (673, 433) -> (674, 434) -> (675, 435) -> (676, 436) -> (677, 437) -> (678, 438) -> (679, 439) -> (680, 440) -> (681, 441) -> (682, 442) -> (683, 443) -> (684, 444) -> (685, 445) -> (686, 446) -> (687, 447) -> (688, 448) -> (689, 449) -> (690, 450) -> (691, 451) -> (692, 452) -> (693, 453) -> (694, 454) -> (695, 455) -> (696, 456) -> (697, 457) -> (698, 458) -> (699, 459) -> (700, 460) -> (701, 461) -> (702, 462) -> (703, 463) -> (704, 464) -> (705, 465) -> (706, 466) -> (707, 467) -> (708, 468) -> (709, 469) -> (710, 470) -> (711, 471) -> (712, 472) -> (713, 473) -> (714, 474) -> (715, 475) -> (716, 476) -> (717, 477) -> (718, 478) -> (719, 479) -> (720, 480) -> (721, 481) -> (722, 482) -> (723, 483) -> (724, 484) -> (725, 485) -> (726, 486) -> (727, 487) -> (728, 488) -> (729, 489) -> (730, 490) -> (731, 491) -> (732, 492) -> (733, 493) -> (734, 494) -> (735, 495) -> (736, 496) -> (737, 497) -> (738, 498) -> (739, 499) -> (740, 500) -> (741, 501) -> (742, 502) -> (743, 503) -> (744, 504) -> (745, 505) -> (746, 506) -> (747, 507) -> (748, 508) -> (749, 509) -> (750, 510) -> (751, 511) -> (752, 512) -> (753, 513) -> (754, 514) -> (755, 515) -> (756, 516) ->		
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(757, 517) -> (758, 518) -> (759, 519) -> (760, 520) -> (761, 521) -> (762, 522) -> (763, 523) -> (764, 524) -> (765, 525) -> (766, 526) -> (767, 527) -> (768, 528) -> (769, 529) -> (770, 530) -> (771, 531) -> (772, 532) -> (773, 533) -> (774, 534) -> (775, 535) -> (776, 536) -> (777, 537) -> (778, 538) -> (779, 539) -> (780, 540) -> (781, 541) -> (782, 542) -> (783, 543) -> (784, 544) -> (785, 545) -> (786, 546) -> (787, 547) -> (788, 548) -> (789, 549) -> (790, 550) -> (791, 551) -> (792, 552) -> (793, 553) -> (794, 554) -> (795, 555) -> (796, 556) -> (797, 557) -> (798, 558) -> (799, 559) -> (800, 560) -> (801, 561) -> (802, 562) -> (803, 563) -> (804, 564) -> (805, 565) -> (806, 566) -> (807, 567) -> (808, 568) -> (809, 569) -> (810, 570) -> (811, 571) -> (812, 572) -> (813, 573) -> (814, 574) -> (815, 575) -> (816, 576) -> (817, 577) -> (818, 578) -> (819, 579) -> (820, 580) -> (821, 581) -> (822, 582) -> (823, 583) -> (824, 584) -> (825, 585) -> (826, 586) -> (827, 587) -> (828, 588) -> (829, 589) -> (830, 590) -> (831, 591) -> (832, 592) -> (833, 593) -> (834, 594) -> (835, 595) -> (836, 596) -> (837, 597) -> (838, 598) -> (839, 599) -> (840, 600) -> (841, 601) -> (842, 602) -> (843, 603) -> (844, 604) -> (845, 605) -> (846, 606) -> (847, 607) -> (848, 608) -> (849, 609) -> (850, 610) -> (851, 611) -> (852, 612) -> (853, 613) -> (854, 614) -> (855, 615) -> (856, 616) -> (857, 617) -> (858, 618) -> (859, 619) -> (860, 620) -> (861, 621) -> (862, 622) -> (863, 623) -> (864, 624) -> (865, 625) -> (866, 626) ->		
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(867, 627) -> (868, 628) -> (869, 629) -> (870, 630) -> (871, 631) -> (872, 632) -> (873, 633) -> (874, 634) -> (875, 635) -> (876, 636) -> (877, 637) -> (878, 638) -> (879, 639) -> (880, 640) -> (881, 641) -> (882, 642) -> (883, 643) -> (884, 644) -> (885, 645) -> (886, 646) -> (887, 647) -> (888, 648) -> (889, 649) -> (890, 650) -> (891, 651) -> (892, 652) -> (893, 653) -> (894, 654) -> (895, 655) -> (896, 656) -> (897, 657) -> (898, 658) -> (899, 659) -> (900, 660) -> (901, 661) -> (902, 662) -> (903, 663) -> (904, 664) -> (905, 665) -> (906, 666) -> (907, 667) -> (908, 668) -> (909, 669) -> (910, 670) -> (911, 671) -> (912, 672) -> (913, 673) -> (914, 674) -> (915, 675) -> (916, 676) -> (917, 677) -> (918, 678) -> (919, 679) -> (920, 680) -> (921, 681) -> (922, 682) -> (923, 683) -> (924, 684) -> (925, 685) -> (926, 686) -> (927, 687) -> (928, 688) -> (929, 689) -> (930, 690) -> (931, 691) -> (932, 692) -> (933, 693) -> (934, 694) -> (935, 695) -> (936, 696) -> (937, 697) -> (938, 698) -> (939, 699) -> (940, 700) -> (941, 701) -> (942, 702) -> (943, 703) -> (944, 704) -> (945, 705) -> (946, 706) -> (947, 707) -> (948, 708) -> (949, 709) -> (950, 710) -> (951, 711) -> (952, 712) -> (953, 713) -> (954, 714) -> (955, 715) -> (956, 716) -> (957, 717) -> (958, 718) -> (959, 719) -> (960, 720) -> (961, 721) -> (962, 722) -> (963, 723) -> (964, 724) -> (965, 725) -> (966, 726) -> (967, 727) -> (968, 728) -> (969, 729) -> (970, 730) -> (971, 731) -> (972, 732) -> (973, 733) -> (974, 734) -> (975, 735) -> (976, 736) ->		
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(977, 737) -> (978, 738) -> (979, 739) -> (980, 740) -> (981, 741) -> (982, 742) -> (983, 743) -> (984, 744) -> (985, 745) -> (986, 746) -> (987, 747) -> (988, 748) -> (989, 749) -> (990, 750) -> (991, 751) -> (992, 752) -> (993, 753) -> (994, 754) -> (995, 755) -> (996, 756) -> (997, 757) -> (998, 758) -> (999, 759) -> (1000, 760) -> (1001, 761) -> (1002, 762) -> (1003, 763) -> (1004, 764) -> (1005, 765) -> (1005, 766) -> (1005, 767) -> (1005, 768) -> (1005, 769) -> (1005, 770) -> (1005, 771) -> (1005, 772) -> (1005, 773) -> (1005, 774) -> (1005, 775) -> (1005, 776) -> (1005, 777) -> (1005, 778) -> (1005, 779) -> (1005, 780) -> (1005, 781) -> (1005, 782) -> (1005, 783) -> (1005, 784) -> (1005, 785) -> (1005, 786) -> (1005, 787) -> (1005, 788) -> (1005, 789) -> (1005, 790) -> (1005, 791) -> (1005, 792) -> (1005, 793) -> (1005, 794) -> (1005, 795) -> (1005, 796) -> (1005, 797) -> (1005, 798) -> (1005, 799) -> (1005, 800) -> (1005, 801) -> (1005, 802) -> (1005, 803) -> (1005, 804) -> (1005, 805) -> (1005, 806) -> (1005, 807) -> (1005, 808) -> (1005, 809) -> (1005, 810) -> (1005, 811) -> (1005, 812) -> (1005, 813) -> (1005, 814) -> (1005, 815) -> (1005, 816) -> (1005, 817) -> (1005, 818) -> (1005, 819) -> (1005, 820) -> (1005, 821) -> (1005, 822) -> (1005, 823) -> (1005, 824) -> (1005, 825) -> (1005, 826) -> (1005, 827) -> (1005, 828) -> (1005, 829) -> (1005, 830) -> (1005, 831) -> (1005, 832) -> (1005, 833) -> (1005, 834) -> (1005, 835) -> (1005, 836) -> (1005, 837) -> (1005, 838) -> (1005, 839) -> (1005, 840) -> (1005, 841) -> (1005, 842) -> (1005, 843) -> (1005, 844) -> (1005, 845) -> (1005, 846) ->		
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(1005, 847) -> (1005, 848) -> (1005, 849) -> (1005, 850) -> (1005, 851) -> (1005, 852) -> (1005, 853) -> (1005, 854) -> (1005, 855) -> (1005, 856) -> (1005, 857) -> (1005, 858) -> (1005, 859) -> (1005, 860) -> (1005, 861) -> (1005, 862) -> (1005, 863) -> (1005, 864) -> (1005, 865) -> (1005, 866) -> (1005, 867) -> (1005, 868) -> (1005, 869) -> (1005, 870) -> (1005, 871) -> (1005, 872) -> (1005, 873) -> (1005, 874) -> (1005, 875) -> (1005, 876) -> (1005, 877) -> (1005, 878) -> (1005, 879) -> (1005, 880) -> (1005, 881) -> (1005, 882) -> (1005, 883) -> (1005, 884) -> (1005, 885) -> (1005, 886) -> (1005, 887) -> (1005, 888) -> (1005, 889) -> (1005, 890) -> (1005, 891) -> (1005, 892) -> (1005, 893) -> (1005, 894) -> (1005, 895) -> (1005, 896) -> (1005, 897) -> (1005, 898) -> (1005, 899) -> (1005, 900) -> (1005, 901) -> (1005, 902) -> (1005, 903) -> (1005, 904) -> (1005, 905) -> (1005, 906) -> (1005, 907) -> (1005, 908) -> (1005, 909) -> (1005, 910) -> (1005, 911) -> (1005, 912) -> (1005, 913) -> (1005, 914) -> (1005, 915) -> (1005, 916) -> (1005, 917) -> (1005, 918) -> (1005, 919) -> (1005, 920) -> (1005, 921) -> (1005, 922) -> (1005, 923) -> (1005, 924) -> (1005, 925) -> (1005, 926) -> (1005, 927) -> (1005, 928) -> (1005, 929) -> (1005, 930) -> (1005, 931) -> (1005, 932) -> (1005, 933) -> (1005, 934) -> (1005, 935) -> (1005, 936) -> (1005, 937) -> (1005, 938) -> (1005, 939) -> (1005, 940) -> (1005, 941) -> (1005, 942) -> (1005, 943) -> (1005, 944) -> (1005, 945) -> (1005, 946) -> (1005, 947) -> (1005, 948) -> (1005, 949) -> (1005, 950) -> (1005, 951) -> (1005, 952) -> (1005, 953) -> (1005, 954) -> (1005, 955) -> (1005, 956) ->		
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(1005, 957) -> (1005, 958) -> (1005, 959) -> (1005, 960) -> (1005, 961) -> (1005, 962) -> (1005, 963) -> (1005, 964) -> (1005, 965) -> (1005, 966) -> (1005, 967) -> (1005, 968) -> (1005, 969) -> (1005, 970) -> (1005, 971) -> (1005, 972) -> (1005, 973) -> (1005, 974) -> (1005, 975) -> (1005, 976) -> (1005, 977) -> (1005, 978) -> (1005, 979) -> (1005, 980) -> (1005, 981) -> (1005, 982) -> (1005, 983) -> (1005, 984) -> (1005, 985) -> (1005, 986) -> (1005, 987) -> (1005, 988) -> (1005, 989) -> (1005, 990) -> (1005, 991) -> (1005, 992) -> (1005, 993) -> (1005, 994) -> (1005, 995) -> (1005, 996) -> (1005, 997) -> (1005, 998) -> (1005, 999) -> (1005, 1000) -> (1005, 1001) -> (1005, 1002)		
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GBFS:

Path	Cost	Time
(180, 178) -> (180, 177) -> (180, 176)	2	132.80 ms
(313, 380) -> (312, 380) -> (311, 380) -> (310, 379) -> (309, 379) -> (308, 378) -> (307, 378) -> (306, 378) -> (305, 378) -> (304, 379) -> (304, 380) -> (303, 381) -> (302, 381) -> (301, 380) -> (300, 380) -> (299, 381) -> (298, 382) -> (298, 383) -> (298, 384) -> (299, 385) -> (300, 384)	20	121.90 ms
(635, 675) -> (634, 675) -> (633, 676) -> (632, 677) -> (631, 678) -> (630, 679) -> (629, 680) -> (628, 681) -> (627, 682) -> (626, 683) -> (627, 684) -> (628, 685) -> (627, 686) -> (626, 687) -> (625, 688) -> (625, 689) -> (624, 690) -> (623, 691) -> (622, 692) -> (621, 693) -> (620, 694) -> (619, 694) -> (618, 695) -> (617, 695) ->	85	191.60 ms

(616, 696) -> (615, 697) -> (614, 698) -> (613, 698) -> (612, 699) -> (612, 700) -> (612, 701) -> (611, 702) -> (612, 703) -> (613, 704) -> (612, 705) -> (611, 705) -> (610, 706) -> (609, 707) -> (609, 708) -> (608, 709) -> (607, 710) -> (606, 711) -> (605, 712) -> (606, 713) -> (607, 714) -> (607, 715) -> (606, 716) -> (605, 717) -> (606, 718) -> (606, 719) -> (607, 720) -> (608, 721) -> (609, 722) -> (610, 723) -> (610, 724) -> (609, 725) -> (609, 726) -> (609, 727) -> (609, 728) -> (609, 729) -> (609, 730) -> (610, 731) -> (611, 732) -> (612, 733) -> (613, 734) -> (614, 734) -> (615, 735) -> (616, 736) -> (617, 736) -> (618, 737) -> (619, 738) -> (619, 739) -> (620, 740) -> (621, 739) -> (622, 740) -> (623, 741) -> (624, 742) -> (625, 742) -> (626, 743) -> (627, 743) -> (628, 742) -> (629, 741) -> (629, 740) -> (629, 739) -> (628, 738) -> (627, 739) ->		
(168, 492) -> (168, 493) -> (168, 494) -> (168, 495) -> (168, 496) -> (168, 497) -> (168, 498) -> (167, 499) -> (166, 500) -> (165, 501) -> (164, 502) -> (163, 503) -> (162, 504) -> (161, 505) -> (160, 506) -> (159, 507) -> (158, 508) -> (157, 509) -> (156, 510) -> (155, 511) -> (154, 512) -> (153, 513) -> (152, 514) -> (151, 515) -> (150, 516) -> (149, 517) -> (148, 518) -> (147, 519) -> (146, 520) -> (145, 521) -> (144, 522) -> (143, 523) -> (142, 524) -> (141, 525) -> (140, 526) -> (139, 527) -> (138, 528) -> (137, 529) -> (136, 530) -> (135, 531) -> (134, 532) -> (133, 533) -> (132, 534) -> (131, 535) -> (130, 536) -> (129, 537) -> (128, 538) -> (127, 539) ->	95	165.60 ms

(126, 540) -> (125, 541) -> (124, 542) -> (123, 543) -> (122, 544) -> (121, 545) -> (120, 546) -> (119, 547) -> (118, 548) -> (117, 549) -> (116, 550) -> (115, 551) -> (114, 552) -> (113, 553) -> (112, 554) -> (111, 555) -> (110, 556) -> (109, 557) -> (108, 558) -> (107, 559) -> (106, 560) -> (105, 561) -> (104, 562) -> (103, 563) -> (102, 564) -> (102, 565) -> (101, 566) -> (100, 566) -> (99, 567) -> (98, 568) -> (97, 569) -> (96, 570) -> (95, 571) - > (95, 572) -> (94, 573) -> (94, 574) -> (94, 575) -> (94, 576) - > (94, 577) -> (94, 578) -> (93, 579) -> (92, 580) -> (91, 581) - > (90, 580) -> (90, 579) -> (90, 578) -> (89, 577) -> (88, 578)		
(284, 166) -> (284, 167) -> (284, 168) -> (283, 169) -> (282, 170) -> (281, 171) -> (280, 172) -> (279, 173) -> (278, 174) -> (277, 175) -> (276, 176) -> (275, 177) -> (274, 178) -> (274, 179) -> (274, 180) -> (274, 181) -> (273, 182) -> (272, 183) -> (271, 184) -> (270, 185) -> (269, 186) -> (268, 187) -> (267, 188) -> (266, 189) -> (266, 190) -> (265, 191) -> (264, 192) -> (263, 193) -> (262, 194) -> (261, 195) -> (260, 195) -> (259, 196) -> (258, 196) -> (257, 196) -> (256, 196) -> (255, 196) -> (254, 195) -> (253, 194) -> (252, 193) -> (251, 194) -> (250, 195) -> (249, 196) -> (248, 197) -> (247, 198) -> (246, 199) -> (245, 200) -> (244, 201) -> (243, 202) -> (242, 201) -> (241, 200) -> (240, 199) -> (239, 200) -> (238, 201) -> (238, 202) -> (237, 203) -> (236, 204) -> (235, 204) -> (234, 205) -> (233, 206) -> (232, 207) -> (231, 208) -> (230, 209) -> (229, 210) -> (228, 211) -> (228, 212) -> (227, 213) ->	179	408.90 ms

(226, 214) -> (225, 215) -> (224, 215) -> (223, 216) -> (222, 217) -> (221, 218) -> (221, 219) -> (220, 220) -> (219, 221) -> (218, 221) -> (217, 222) -> (216, 223) -> (215, 224) -> (214, 224) -> (213, 225) -> (212, 226) -> (211, 227) -> (210, 227) -> (209, 227) -> (208, 227) -> (207, 226) -> (206, 225) -> (205, 224) -> (204, 223) -> (203, 223) -> (202, 223) -> (201, 223) -> (200, 222) -> (200, 221) -> (201, 220) -> (200, 219) -> (199, 219) -> (198, 220) -> (197, 220) -> (196, 220) -> (195, 221) -> (194, 222) -> (193, 222) -> (192, 222) -> (191, 222) -> (190, 222) -> (189, 221) -> (189, 220) -> (189, 219) -> (188, 218) -> (187, 217) -> (186, 216) -> (185, 216) -> (184, 216) -> (183, 215) -> (182, 214) -> (181, 213) -> (180, 213) -> (179, 214) -> (178, 215) -> (177, 216) -> (176, 216) -> (175, 217) -> (175, 218) -> (174, 219) -> (173, 218) -> (172, 219) -> (171, 218) -> (170, 219) -> (169, 218) -> (168, 219) -> (167, 220) -> (166, 220) -> (165, 220) -> (164, 220) -> (163, 219) -> (162, 218) -> (161, 218) -> (160, 218) -> (159, 219) -> (158, 220) -> (157, 220) -> (156, 220) -> (155, 220) -> (154, 219) -> (153, 220) -> (152, 220) -> (151, 220) -> (150, 219) -> (150, 218) -> (149, 217) -> (148, 216) -> (147, 217) -> (146, 216) -> (145, 215) -> (144, 214) -> (143, 213) -> (142, 212) -> (142, 211) -> (143, 210) -> (144, 209) -> (145, 208) -> (146, 207) -> (146, 206) -> (146, 205) -> (146, 204) -> (146, 203) -> (145, 202) -> (144, 201) -> (143, 200) -> (142, 200) -> (141, 199) -> (141, 198) -> (140, 197) -> (139, 196) ->		
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(139, 195) -> (139, 194) -> (138, 193) -> (137, 194)		
(785, 622) -> (784, 622) -> (783, 622) -> (782, 622) -> (781, 622) -> (780, 621) -> (779, 620) -> (778, 619) -> (777, 618) -> (776, 617) -> (775, 616) -> (774, 615) -> (773, 614) -> (772, 613) -> (771, 612) -> (770, 611) -> (769, 610) -> (768, 609) -> (767, 608) -> (766, 607) -> (765, 606) -> (764, 605) -> (763, 604) -> (762, 603) -> (761, 602) -> (760, 601) -> (759, 600) -> (758, 599) -> (757, 598) -> (756, 597) -> (755, 596) -> (754, 595) -> (753, 594) -> (752, 593) -> (751, 592) -> (750, 591) -> (749, 590) -> (748, 589) -> (747, 588) -> (746, 587) -> (745, 587) -> (744, 588) -> (743, 588) -> (742, 589) -> (741, 589) -> (740, 589) -> (739, 588) -> (738, 588) -> (737, 589) -> (736, 589) -> (735, 589) -> (734, 588) -> (733, 588) -> (732, 589) -> (731, 589) -> (730, 589) -> (729, 588) -> (728, 588) -> (727, 589) -> (726, 589) -> (725, 589) -> (724, 588) -> (723, 588) -> (722, 589) -> (721, 589) -> (720, 589) -> (719, 588) -> (718, 588) -> (717, 589) -> (716, 589) -> (715, 589) -> (714, 589) -> (713, 589) -> (712, 589) -> (711, 589) -> (710, 589) -> (709, 589) -> (708, 589) -> (707, 589) -> (706, 589) -> (705, 589) -> (704, 589) -> (703, 589) -> (702, 589) -> (701, 589) -> (700, 589) -> (699, 589) -> (698, 589) -> (697, 589) -> (696, 589) -> (695, 589) -> (694, 589) -> (693, 589) -> (692, 589) -> (691, 589) -> (690, 589) -> (689, 589) -> (688, 589) -> (687, 589) -> (686, 589) -> (685, 589) -> (684, 589) -> (683, 589) -> (682, 589) -> (681, 589) -> (680, 589) ->	632	3084.60 ms

(679, 589) -> (678, 590) -> (677, 590) -> (676, 591) -> (675, 591) -> (674, 592) -> (673, 593) -> (672, 593) -> (671, 594) -> (670, 594) -> (669, 595) -> (668, 595) -> (667, 596) -> (666, 596) -> (665, 597) -> (664, 598) -> (663, 598) -> (662, 599) -> (661, 599) -> (660, 600) -> (659, 600) -> (658, 601) -> (657, 602) -> (656, 602) -> (655, 603) -> (654, 603) -> (653, 604) -> (652, 605) -> (651, 605) -> (650, 606) -> (649, 606) -> (648, 607) -> (647, 607) -> (646, 608) -> (645, 608) -> (644, 608) -> (643, 608) -> (642, 608) -> (641, 608) -> (640, 608) -> (639, 608) -> (638, 608) -> (637, 608) -> (636, 608) -> (635, 608) -> (634, 607) -> (633, 606) -> (632, 605) -> (631, 604) -> (630, 603) -> (629, 602) -> (628, 601) -> (627, 600) -> (626, 599) -> (625, 598) -> (624, 597) -> (623, 596) -> (622, 595) -> (621, 594) -> (620, 593) -> (619, 592) -> (618, 591) -> (617, 590) -> (616, 589) -> (615, 588) -> (614, 587) -> (613, 586) -> (612, 585) -> (611, 584) -> (610, 583) -> (609, 582) -> (608, 581) -> (607, 580) -> (606, 579) -> (605, 578) -> (604, 577) -> (603, 576) -> (602, 575) -> (601, 574) -> (600, 573) -> (599, 572) -> (598, 571) -> (597, 570) -> (596, 569) -> (595, 568) -> (594, 567) -> (593, 566) -> (592, 565) -> (591, 564) -> (590, 563) -> (589, 562) -> (588, 561) -> (587, 560) -> (586, 559) -> (585, 558) -> (584, 557) -> (583, 556) -> (582, 555) -> (581, 554) -> (580, 553) -> (579, 552) -> (578, 551) -> (577, 550) -> (576, 549) -> (575, 548) -> (574, 547) -> (573, 546) -> (572, 545) -> (571, 544) -> (570, 543) ->		
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(569, 542) -> (568, 541) -> (567, 540) -> (566, 539) -> (565, 538) -> (564, 537) -> (563, 536) -> (562, 535) -> (561, 534) -> (560, 533) -> (559, 532) -> (558, 531) -> (557, 530) -> (556, 529) -> (555, 528) -> (554, 527) -> (553, 526) -> (552, 525) -> (551, 524) -> (550, 523) -> (549, 522) -> (548, 521) -> (547, 521) -> (546, 522) -> (545, 522) -> (544, 523) -> (543, 523) -> (542, 523) -> (541, 522) -> (540, 522) -> (539, 523) -> (538, 523) -> (537, 523) -> (536, 522) -> (535, 522) -> (534, 523) -> (533, 523) -> (532, 523) -> (531, 522) -> (530, 522) -> (529, 521) -> (528, 520) -> (527, 519) -> (526, 519) -> (525, 519) -> (524, 518) -> (523, 518) -> (522, 519) -> (521, 519) -> (520, 519) -> (519, 518) -> (518, 518) -> (517, 519) -> (516, 519) -> (515, 519) -> (514, 518) -> (513, 518) -> (512, 519) -> (511, 520) -> (510, 521) -> (509, 522) -> (508, 523) -> (507, 524) -> (506, 525) -> (505, 526) -> (504, 527) -> (503, 528) -> (502, 529) -> (501, 530) -> (500, 531) -> (499, 532) -> (498, 533) -> (497, 534) -> (496, 534) -> (495, 535) -> (494, 536) -> (493, 537) -> (492, 538) -> (491, 539) -> (490, 540) -> (489, 541) -> (488, 542) -> (487, 542) -> (486, 542) -> (485, 542) -> (484, 542) -> (483, 542) -> (482, 541) -> (481, 540) -> (480, 539) -> (479, 538) -> (478, 537) -> (477, 536) -> (476, 535) -> (475, 534) -> (474, 533) -> (473, 532) -> (472, 531) -> (471, 530) -> (470, 529) -> (469, 528) -> (468, 527) -> (467, 526) -> (466, 525) -> (465, 524) -> (464, 523) -> (463, 522) -> (462, 521) -> (461, 520) -> (460, 519) ->		
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(459, 518) -> (458, 517) -> (457, 516) -> (456, 515) -> (455, 514) -> (454, 513) -> (453, 512) -> (452, 511) -> (451, 510) -> (450, 509) -> (449, 508) -> (448, 507) -> (447, 506) -> (446, 505) -> (445, 504) -> (444, 503) -> (443, 502) -> (442, 501) -> (441, 500) -> (440, 499) -> (439, 498) -> (438, 497) -> (437, 496) -> (436, 495) -> (435, 494) -> (434, 493) -> (433, 492) -> (432, 491) -> (431, 490) -> (430, 489) -> (429, 488) -> (428, 487) -> (427, 486) -> (426, 485) -> (425, 484) -> (424, 483) -> (423, 482) -> (422, 481) -> (421, 480) -> (420, 479) -> (419, 478) -> (418, 478) -> (417, 479) -> (416, 479) -> (415, 480) -> (414, 480) -> (413, 480) -> (412, 479) -> (411, 479) -> (410, 480) -> (409, 480) -> (408, 480) -> (407, 479) -> (406, 479) -> (405, 480) -> (404, 480) -> (403, 480) -> (402, 479) -> (401, 479) -> (400, 480) -> (399, 480) -> (398, 480) -> (397, 479) -> (396, 479) -> (395, 480) -> (394, 480) -> (393, 479) -> (392, 478) -> (391, 477) -> (390, 477) -> (389, 478) -> (388, 478) -> (387, 477) -> (386, 476) -> (385, 475) -> (384, 475) -> (383, 474) -> (382, 473) -> (381, 472) -> (380, 471) -> (379, 470) -> (378, 469) -> (377, 468) -> (376, 467) -> (375, 467) -> (374, 468) -> (373, 468) -> (372, 469) -> (371, 469) -> (370, 470) -> (369, 470) -> (368, 471) -> (367, 471) -> (366, 472) -> (365, 472) -> (364, 472) -> (363, 471) -> (362, 471) -> (361, 471) -> (360, 471) -> (359, 471) -> (358, 471) -> (357, 471) -> (356, 471) -> (355, 471) -> (354, 471) -> (353, 471) -> (352, 471) -> (351, 471) -> (350, 471) ->		
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(349, 471) -> (348, 471) -> (347, 471) -> (346, 471) -> (345, 471) -> (344, 471) -> (343, 471) -> (342, 471) -> (341, 471) -> (340, 471) -> (339, 471) -> (338, 471) -> (337, 471) -> (336, 471) -> (335, 472) -> (334, 472) -> (333, 473) -> (332, 474) -> (331, 475) -> (330, 475) -> (329, 476) -> (328, 477) -> (327, 477) -> (326, 478) -> (325, 479) -> (324, 480) -> (323, 481) -> (322, 482) -> (321, 483) -> (320, 484) -> (319, 485) -> (318, 486) -> (317, 487) -> (316, 487) -> (315, 487) -> (314, 487) -> (313, 487) -> (312, 487) -> (311, 488) -> (310, 489) -> (309, 490) -> (308, 490) -> (307, 491) -> (306, 492) -> (305, 493) -> (304, 493) -> (303, 494) -> (302, 495) -> (301, 496) -> (300, 496) -> (299, 497) -> (298, 497) -> (297, 497) -> (296, 497) -> (295, 497) -> (294, 497) -> (293, 497) -> (292, 497) -> (291, 497) -> (290, 497) -> (289, 497) -> (288, 497) -> (287, 498) -> (286, 497) -> (285, 496) -> (284, 495) -> (284, 494) -> (283, 493) -> (282, 492) -> (281, 491) -> (280, 490) -> (279, 489) -> (278, 488) -> (277, 487) -> (276, 486) -> (275, 486) -> (274, 485) -> (274, 484) -> (273, 483) -> (272, 482) -> (271, 481) -> (270, 480) -> (269, 479) -> (268, 478) -> (267, 477) -> (266, 476) -> (265, 475) -> (264, 474) -> (263, 473) -> (262, 472) -> (261, 471) -> (260, 470) -> (259, 469) -> (258, 468) -> (257, 467) -> (256, 466) -> (255, 465) -> (254, 464) -> (253, 463) -> (252, 462) -> (252, 461) -> (251, 460) -> (250, 460) -> (249, 459) -> (248, 458) -> (247, 457) -> (246, 456) -> (245, 455) -> (244, 454) -> (243, 453) ->		
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(242, 452) -> (241, 451) -> (240, 450) -> (239, 449) -> (238, 448) -> (237, 447) -> (237, 446) -> (238, 445) -> (238, 444) -> (238, 443) -> (239, 442) -> (239, 441) -> (239, 440) -> (239, 439) -> (239, 438) -> (240, 437) -> (240, 436) -> (240, 435) -> (240, 434) -> (240, 433) -> (240, 432) -> (239, 431) -> (240, 430) -> (240, 429) -> (241, 428) -> (241, 427) -> (240, 426) -> (239, 425) -> (239, 424) -> (238, 423) -> (237, 422) -> (237, 421) -> (237, 420) -> (236, 419) -> (235, 418) -> (234, 417) -> (234, 416) -> (233, 415) -> (232, 414) -> (231, 413) -> (230, 412) -> (229, 413) -> (228, 412) -> (227, 411) -> (226, 410) -> (225, 409) -> (224, 409) -> (223, 408) -> (223, 407) -> (222, 406) -> (221, 405) -> (220, 404) -> (219, 403) -> (218, 403) -> (217, 402) -> (216, 401) -> (215, 400) -> (214, 399) -> (214, 398) -> (213, 397) -> (213, 396) -> (212, 395) -> (211, 394) -> (210, 394) -> (209, 394) -> (208, 393) -> (207, 392) -> (206, 392) -> (205, 392) -> (204, 393) -> (203, 392) -> (202, 392) -> (201, 392) -> (200, 392) -> (199, 391) -> (198, 392) -> (197, 393) -> (196, 394) -> (196, 395) -> (195, 396) -> (194, 396) -> (193, 397) -> (192, 398) -> (191, 398) -> (190, 398) -> (189, 399) -> (190, 400)		
(847, 79) -> (847, 80) -> (847, 81) -> (847, 82) -> (847, 83) -> (847, 84) -> (847, 85) -> (847, 86) -> (847, 87) -> (847, 88) -> (846, 89) -> (845, 90) -> (844, 91) -> (843, 92) -> (842, 93) -> (841, 94) -> (840, 95) -> (839, 96) -> (838, 97) -> (837, 98) -> (836, 99) -> (835, 100) -> (834, 101) -> (833, 102) -> (832, 103) -> (831, 104) ->	1005	2821.50 ms

(830, 105) -> (829, 106) -> (828, 107) -> (827, 108) -> (826, 109) -> (825, 110) -> (824, 111) -> (823, 112) -> (822, 113) -> (821, 114) -> (820, 115) -> (819, 116) -> (818, 117) -> (817, 118) -> (816, 119) -> (815, 120) -> (814, 121) -> (813, 122) -> (812, 123) -> (811, 124) -> (810, 125) -> (809, 126) -> (808, 127) -> (807, 128) -> (806, 129) -> (805, 130) -> (804, 131) -> (803, 132) -> (802, 133) -> (801, 134) -> (800, 135) -> (799, 136) -> (798, 137) -> (798, 138) -> (798, 139) -> (799, 140) -> (800, 141) -> (801, 142) -> (801, 143) -> (801, 144) -> (802, 145) -> (803, 146) -> (804, 147) -> (804, 148) -> (804, 149) -> (804, 150) -> (803, 151) -> (802, 152) -> (801, 153) -> (800, 154) -> (799, 155) -> (798, 156) -> (797, 157) -> (796, 158) -> (795, 159) -> (794, 160) -> (793, 161) -> (792, 162) -> (791, 163) -> (790, 164) -> (789, 165) -> (788, 166) -> (787, 167) -> (786, 168) -> (785, 169) -> (784, 170) -> (783, 171) -> (782, 172) -> (781, 173) -> (780, 174) -> (779, 175) -> (778, 176) -> (777, 177) -> (776, 178) -> (775, 179) -> (774, 180) -> (773, 181) -> (772, 182) -> (771, 183) -> (770, 184) -> (769, 185) -> (768, 186) -> (767, 187) -> (766, 188) -> (765, 189) -> (764, 190) -> (763, 191) -> (762, 192) -> (761, 193) -> (760, 194) -> (759, 195) -> (758, 196) -> (757, 197) -> (756, 198) -> (755, 199) -> (754, 200) -> (753, 201) -> (752, 202) -> (751, 203) -> (750, 204) -> (749, 205) -> (748, 206) -> (747, 207) -> (746, 208) -> (745, 209) -> (744, 210) -> (743, 211) -> (742, 212) -> (741, 213) -> (740, 214) ->		
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(739, 215) -> (738, 216) -> (737, 217) -> (736, 218) -> (735, 219) -> (734, 220) -> (733, 221) -> (732, 222) -> (731, 223) -> (730, 224) -> (729, 225) -> (728, 226) -> (727, 227) -> (727, 228) -> (726, 229) -> (725, 230) -> (724, 231) -> (723, 232) -> (722, 233) -> (721, 234) -> (720, 235) -> (719, 236) -> (718, 237) -> (717, 238) -> (717, 239) -> (716, 240) -> (715, 241) -> (714, 242) -> (713, 243) -> (712, 244) -> (711, 245) -> (710, 246) -> (709, 247) -> (708, 248) -> (707, 249) -> (707, 250) -> (706, 251) -> (705, 252) -> (704, 253) -> (703, 254) -> (702, 255) -> (701, 256) -> (700, 257) -> (699, 258) -> (698, 259) -> (697, 260) -> (697, 261) -> (696, 262) -> (695, 263) -> (694, 264) -> (693, 265) -> (692, 266) -> (691, 267) -> (690, 268) -> (689, 269) -> (688, 270) -> (687, 271) -> (686, 272) -> (685, 273) -> (684, 274) -> (683, 275) -> (682, 276) -> (681, 277) -> (680, 278) -> (679, 279) -> (678, 280) -> (677, 281) -> (676, 282) -> (675, 283) -> (674, 284) -> (673, 285) -> (672, 286) -> (671, 287) -> (670, 288) -> (669, 289) -> (668, 290) -> (667, 291) -> (666, 292) -> (665, 293) -> (664, 294) -> (663, 295) -> (662, 296) -> (661, 297) -> (660, 298) -> (659, 299) -> (658, 300) -> (657, 301) -> (656, 302) -> (655, 302) -> (654, 303) -> (653, 304) -> (652, 305) -> (651, 306) -> (650, 307) -> (649, 308) -> (648, 309) -> (647, 310) -> (646, 311) -> (645, 312) -> (644, 313) -> (643, 314) -> (642, 315) -> (641, 316) -> (640, 317) -> (639, 317) -> (638, 318) -> (637, 319) -> (636, 320) -> (635, 321) -> (634, 322) ->		
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(633, 323) -> (632, 324) -> (631, 325) -> (630, 325) -> (629, 326) -> (628, 327) -> (627, 328) -> (626, 328) -> (625, 329) -> (624, 330) -> (623, 331) -> (622, 332) -> (621, 333) -> (620, 334) -> (619, 335) -> (618, 336) -> (617, 337) -> (616, 338) -> (615, 339) -> (614, 339) -> (613, 340) -> (612, 341) -> (611, 342) -> (610, 343) -> (609, 344) -> (608, 345) -> (607, 346) -> (606, 347) -> (605, 348) -> (604, 349) -> (603, 350) -> (602, 351) -> (602, 352) -> (601, 353) -> (600, 354) -> (599, 355) -> (598, 356) -> (597, 357) -> (596, 358) -> (595, 359) -> (594, 360) -> (593, 361) -> (592, 361) -> (591, 362) -> (590, 362) -> (589, 363) -> (588, 364) -> (587, 365) -> (586, 366) -> (585, 367) -> (584, 368) -> (583, 369) -> (582, 369) -> (581, 370) -> (581, 371) -> (580, 372) -> (579, 373) -> (578, 374) -> (577, 374) -> (576, 374) -> (575, 375) -> (574, 375) -> (573, 376) -> (572, 377) -> (572, 378) -> (571, 379) -> (570, 380) -> (569, 381) -> (568, 382) -> (567, 383) -> (568, 384) -> (568, 385) -> (567, 386) -> (566, 387) -> (565, 388) -> (564, 389) -> (563, 389) -> (562, 389) -> (561, 389) -> (560, 390) -> (559, 391) -> (558, 391) -> (557, 392) -> (557, 393) -> (558, 394) -> (559, 395) -> (558, 396) -> (557, 397) -> (556, 398) -> (555, 399) -> (554, 399) -> (553, 400) -> (552, 401) -> (551, 401) -> (550, 402) -> (549, 403) -> (549, 404) -> (550, 405) -> (551, 405) -> (552, 406) -> (553, 407) -> (554, 408) -> (554, 409) -> (555, 410) -> (556, 411) -> (557, 411) -> (558, 412) -> (557, 413) -> (556, 414) -> (557, 415) ->		
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(557, 416) -> (556, 417) -> (555, 417) -> (554, 418) -> (555, 419) -> (556, 420) -> (557, 420) -> (558, 420) -> (559, 421) -> (558, 422) -> (558, 423) -> (559, 424) -> (560, 424) -> (561, 425) -> (561, 426) -> (560, 427) -> (559, 427) -> (558, 428) -> (557, 429) -> (556, 430) -> (555, 431) -> (555, 432) -> (556, 433) -> (557, 434) -> (556, 435) -> (557, 436) -> (557, 437) -> (557, 438) -> (556, 439) -> (557, 440) -> (556, 441) -> (555, 442) -> (555, 443) -> (554, 444) -> (553, 445) -> (552, 445) -> (551, 445) -> (550, 445) -> (549, 446) -> (548, 447) -> (547, 447) -> (546, 447) -> (545, 448) -> (544, 448) -> (543, 448) -> (542, 449) -> (542, 450) -> (542, 451) -> (541, 452) -> (540, 453) -> (541, 454) -> (542, 455) -> (542, 456) -> (542, 457) -> (543, 458) -> (544, 459) -> (544, 460) -> (545, 461) -> (546, 462) -> (545, 463) -> (544, 464) -> (543, 465) -> (542, 466) -> (542, 467) -> (541, 468) -> (541, 469) -> (542, 470) -> (543, 471) -> (544, 472) -> (543, 473) -> (544, 474) -> (545, 475) -> (545, 476) -> (546, 477) -> (547, 478) -> (547, 479) -> (546, 480) -> (546, 481) -> (547, 482) -> (548, 483) -> (549, 484) -> (550, 485) -> (550, 486) -> (550, 487) -> (551, 488) -> (552, 489) -> (553, 490) -> (552, 491) -> (551, 492) -> (550, 493) -> (549, 494) -> (550, 495) -> (549, 496) -> (548, 497) -> (548, 498) -> (547, 499) -> (546, 500) -> (546, 501) -> (546, 502) -> (546, 503) -> (546, 504) -> (545, 505) -> (545, 506) -> (544, 507) -> (543, 508) -> (542, 509) -> (542, 510) -> (542, 511) -> (541, 512) -> (540, 513) ->		
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(539, 514) -> (539, 515) -> (538, 516) -> (537, 517) -> (536, 518) -> (535, 519) -> (534, 520) -> (533, 521) -> (532, 522) -> (531, 523) -> (530, 524) -> (530, 525) -> (529, 526) -> (529, 527) -> (528, 528) -> (527, 529) -> (526, 529) -> (525, 530) -> (524, 531) -> (523, 532) -> (523, 533) -> (523, 534) -> (522, 535) -> (521, 536) -> (520, 537) -> (519, 538) -> (518, 539) -> (518, 540) -> (517, 541) -> (516, 542) -> (515, 543) -> (514, 544) -> (515, 545) -> (514, 546) -> (514, 547) -> (513, 548) -> (513, 549) -> (512, 550) -> (512, 551) -> (513, 552) -> (513, 553) -> (513, 554) -> (512, 555) -> (512, 556) -> (511, 557) -> (510, 558) -> (509, 559) -> (508, 560) -> (507, 560) -> (506, 561) -> (505, 562) -> (506, 563) -> (505, 564) -> (504, 565) -> (504, 566) -> (504, 567) -> (505, 568) -> (505, 569) -> (505, 570) -> (506, 571) -> (505, 572) -> (506, 573) -> (507, 574) -> (507, 575) -> (508, 576) -> (507, 577) -> (507, 578) -> (506, 579) -> (507, 580) -> (508, 581) -> (509, 582) -> (510, 583) -> (511, 584) -> (512, 585) -> (513, 586) -> (514, 587) -> (515, 588) -> (516, 589) -> (515, 590) -> (515, 591) -> (516, 592) -> (517, 593) -> (518, 594) -> (519, 595) -> (520, 596) -> (520, 597) -> (521, 598) -> (522, 599) -> (523, 600) -> (524, 601) -> (525, 602) -> (526, 603) -> (526, 604) -> (525, 605) -> (525, 606) -> (525, 607) -> (525, 608) -> (524, 609) -> (523, 610) -> (522, 611) -> (521, 612) -> (520, 613) -> (519, 614) -> (518, 615) -> (517, 615) -> (516, 616) -> (515, 617) -> (514, 618) -> (513, 618) -> (512, 619) ->		
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(511, 620) -> (510, 621) -> (509, 622) -> (509, 623) -> (510, 624) -> (511, 625) -> (512, 626) -> (511, 627) -> (510, 628) -> (509, 629) -> (510, 630) -> (511, 631) -> (512, 631) -> (513, 632) -> (512, 633) -> (511, 634) -> (510, 635) -> (509, 636) -> (508, 637) -> (507, 638) -> (506, 639) -> (505, 639) -> (504, 639) -> (503, 640) -> (502, 641) -> (501, 641) -> (500, 642) -> (499, 642) -> (498, 643) -> (499, 644) -> (499, 645) -> (498, 646) -> (499, 647) -> (500, 648) -> (499, 649) -> (499, 650) -> (499, 651) -> (499, 652) -> (498, 653) -> (497, 653) -> (496, 654) -> (497, 655) -> (498, 656) -> (499, 657) -> (500, 658) -> (500, 659) -> (499, 660) -> (499, 661) -> (498, 662) -> (498, 663) -> (497, 664) -> (496, 665) -> (495, 666) -> (494, 667) -> (494, 668) -> (494, 669) -> (493, 670) -> (494, 671) -> (495, 672) -> (496, 673) -> (496, 674) -> (495, 675) -> (494, 676) -> (493, 677) -> (492, 677) -> (491, 678) -> (492, 679) -> (493, 680) -> (494, 681) -> (495, 682) -> (496, 683) -> (497, 684) -> (498, 685) -> (498, 686) -> (499, 687) -> (499, 688) -> (498, 689) -> (497, 690) -> (496, 691) -> (495, 692) -> (494, 693) -> (493, 694) -> (492, 695) -> (491, 695) -> (490, 696) -> (489, 697) -> (488, 698) -> (487, 699) -> (487, 700) -> (487, 701) -> (487, 702) -> (486, 703) -> (485, 704) -> (486, 705) -> (485, 706) -> (484, 707) -> (484, 708) -> (484, 709) -> (483, 710) -> (483, 711) -> (483, 712) -> (482, 713) -> (481, 714) -> (480, 715) -> (479, 716) -> (478, 716) -> (477, 717) -> (477, 718) -> (476, 719) -> (476, 720) ->		
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(475, 721) -> (475, 722) -> (474, 723) -> (475, 724) -> (475, 725) -> (474, 726) -> (474, 727) -> (473, 728) -> (473, 729) -> (472, 730) -> (471, 731) -> (470, 732) -> (470, 733) -> (471, 734) -> (470, 735) -> (470, 736) -> (469, 737) -> (468, 738) -> (469, 739) -> (468, 740) -> (467, 741) -> (467, 742) -> (467, 743) -> (467, 744) -> (467, 745) -> (467, 746) -> (467, 747) -> (466, 748) -> (466, 749) -> (465, 750) -> (465, 751) -> (465, 752) -> (464, 753) -> (463, 754) -> (464, 755) -> (464, 756) -> (464, 757) -> (463, 758) -> (463, 759) -> (462, 760) -> (461, 761) -> (462, 762) -> (462, 763) -> (461, 764) -> (461, 765) -> (461, 766) -> (461, 767) -> (460, 768) -> (460, 769) -> (459, 770) -> (459, 771) -> (459, 772) -> (459, 773) -> (459, 774) -> (460, 775) -> (459, 776) -> (459, 777) -> (458, 778) -> (459, 779) -> (460, 780) -> (460, 781) -> (461, 782) -> (460, 783) -> (460, 784) -> (460, 785) -> (459, 786) -> (458, 787) -> (458, 788) -> (459, 789) -> (460, 790) -> (461, 791) -> (461, 792) -> (460, 793) -> (461, 794) -> (462, 795) -> (462, 796) -> (461, 797) -> (461, 798) -> (460, 799) -> (460, 800) -> (459, 801) -> (459, 802) -> (459, 803) -> (458, 804) -> (458, 805) -> (459, 806) -> (460, 807) -> (461, 808) -> (462, 809) -> (462, 810) -> (461, 811) -> (461, 812) -> (460, 813) -> (459, 814) -> (459, 815) -> (459, 816) -> (458, 817) -> (459, 818) -> (459, 819) -> (460, 820) -> (459, 821) -> (460, 822) -> (460, 823) -> (460, 824) -> (460, 825) -> (459, 826) -> (458, 827) -> (458, 828) -> (459, 829) -> (459, 830) ->		
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(458, 831) -> (458, 832) -> (457, 833) -> (457, 834) -> (457, 835) -> (456, 836) -> (455, 837) -> (456, 838) -> (457, 839) -> (457, 840) -> (456, 841) -> (456, 842) -> (457, 843) -> (456, 844) -> (457, 845) -> (456, 846) -> (456, 847) -> (456, 848) -> (456, 849) -> (455, 850) -> (456, 851) -> (457, 852) -> (457, 853) -> (456, 854) -> (456, 855) -> (456, 856) -> (456, 857) -> (455, 858) -> (454, 859) -> (455, 860) -> (455, 861) -> (455, 862) -> (456, 863) -> (456, 864) -> (455, 865) -> (456, 866) -> (457, 867) -> (457, 868) -> (458, 869) -> (459, 868) -> (460, 867) -> (461, 866) -> (462, 866) -> (463, 865) -> (464, 864) -> (465, 864) -> (466, 864) -> (467, 865) -> (468, 866) -> (469, 867) -> (470, 867) -> (471, 868) -> (472, 868) -> (473, 869) -> (474, 869) -> (475, 870) -> (476, 870) -> (477, 869) -> (477, 868) -> (478, 867) -> (479, 868) -> (480, 869) -> (481, 870) -> (481, 871) -> (480, 872) -> (481, 873) -> (482, 874) -> (483, 875) -> (484, 875) -> (485, 876) -> (486, 876) -> (487, 877) -> (488, 878) -> (489, 879) -> (490, 880) -> (491, 881) -> (492, 880) -> (493, 881) -> (494, 882) -> (495, 882) -> (496, 883) -> (497, 884) -> (498, 884) -> (499, 885) -> (499, 886) -> (500, 887) -> (501, 888) -> (502, 889) -> (503, 889) -> (504, 890) -> (505, 890) -> (506, 891) -> (507, 891) -> (508, 891) -> (509, 891) -> (510, 891) -> (511, 890) -> (512, 891) -> (513, 892) -> (514, 891) -> (515, 891) -> (516, 891) -> (517, 891) -> (518, 892) -> (519, 892) -> (520, 892) -> (521, 893) -> (522, 894) -> (523, 894) -> (524, 894) ->		
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(525, 895) -> (526, 896) -> (527, 897) -> (528, 898) -> (528, 899) -> (528, 900) -> (529, 901) -> (530, 902) -> (531, 903) -> (532, 903) -> (533, 902) -> (534, 902) -> (535, 901) -> (536, 901) -> (537, 902) -> (537, 903) -> (538, 904) -> (539, 904) -> (540, 903) -> (541, 904) -> (542, 905) -> (543, 906) -> (543, 907) -> (543, 908) -> (543, 909) -> (544, 910) -> (543, 911) -> (544, 912) -> (545, 913) -> (545, 914) -> (545, 915) -> (545, 916) -> (546, 917) -> (547, 916) -> (548, 915) -> (549, 914) -> (550, 914) -> (551, 914) -> (552, 913) -> (553, 912) -> (554, 911) -> (555, 910) -> (556, 909) -> (557, 909) -> (558, 908) -> (559, 907) -> (560, 906) -> (560, 905) -> (561, 904) -> (562, 904) -> (563, 904) -> (564, 904) -> (565, 904) -> (566, 905) -> (567, 906) -> (568, 907) -> (568, 908) -> (569, 909) -> (570, 910) -> (571, 911) -> (572, 912) -> (573, 913) -> (573, 914) -> (573, 915) -> (573, 916) -> (574, 917) -> (575, 917) -> (576, 918) -> (576, 919) -> (575, 920) -> (576, 921) -> (577, 921) -> (578, 920) -> (579, 921) -> (580, 922) -> (581, 923) -> (582, 924) -> (583, 925) -> (582, 926) -> (582, 927) -> (582, 928) -> (582, 929) -> (582, 930) -> (582, 931) -> (582, 932) -> (582, 933) -> (583, 934) -> (584, 934) -> (585, 935) -> (586, 936) -> (587, 935) -> (588, 936) -> (589, 935) -> (590, 936) -> (591, 937) -> (592, 938) -> (593, 938) -> (594, 938) -> (595, 937) -> (594, 936)		
(193, 191) -> (194, 191) -> (195, 191) -> (196, 191) -> (197, 191) -> (198, 190) -> (199, 189) -> (200, 188) -> (201, 187) -> (202, 186) ->	978	3409.70 ms

(203, 185) -> (204, 184) -> (205, 183) -> (206, 182) -> (207, 181) -> (208, 180) -> (209, 179) -> (210, 178) -> (211, 177) -> (212, 177) -> (213, 177) -> (214, 177) -> (215, 177) -> (216, 177) -> (217, 177) -> (218, 176) -> (219, 176) -> (220, 176) -> (221, 176) -> (222, 176) -> (223, 176) -> (224, 176) -> (225, 175) -> (226, 175) -> (227, 176) -> (228, 177) -> (229, 178) -> (230, 178) -> (231, 179) -> (232, 180) -> (233, 181) -> (234, 181) -> (235, 182) -> (236, 183) -> (237, 184) -> (238, 184) -> (239, 185) -> (240, 186) -> (241, 187) -> (242, 187) -> (243, 188) -> (244, 189) -> (245, 190) -> (246, 190) -> (247, 191) -> (248, 192) -> (249, 193) -> (250, 193) -> (251, 194) -> (252, 195) -> (253, 196) -> (254, 196) -> (255, 197) -> (256, 198) -> (257, 199) -> (258, 199) -> (259, 200) -> (260, 201) -> (261, 202) -> (262, 202) -> (263, 203) -> (264, 204) -> (265, 205) -> (266, 205) -> (267, 206) -> (268, 207) -> (269, 208) -> (270, 208) -> (271, 209) -> (272, 210) -> (273, 211) -> (274, 211) -> (275, 212) -> (276, 213) -> (277, 214) -> (278, 214) -> (279, 215) -> (280, 216) -> (281, 217) -> (282, 217) -> (283, 217) -> (284, 217) -> (285, 217) -> (286, 217) -> (287, 217) -> (288, 216) -> (289, 216) -> (290, 216) -> (291, 216) -> (292, 216) -> (293, 216) -> (294, 216) -> (295, 215) -> (296, 215) -> (297, 215) -> (298, 215) -> (299, 215) -> (300, 215) -> (301, 215) -> (302, 214) -> (303, 214) -> (304, 215) -> (305, 216) -> (306, 217) -> (307, 217) -> (308, 218) -> (309, 219) -> (310, 220) -> (311, 220) -> (312, 220) ->		
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(313, 220) -> (314, 220) -> (315, 220) -> (316, 220) -> (317, 219) -> (318, 219) -> (319, 220) -> (320, 221) -> (321, 222) -> (322, 222) -> (323, 223) -> (324, 224) -> (325, 225) -> (326, 225) -> (327, 226) -> (328, 227) -> (329, 228) -> (330, 228) -> (331, 229) -> (332, 230) -> (333, 231) -> (334, 231) -> (335, 231) -> (336, 231) -> (337, 231) -> (338, 231) -> (339, 231) -> (340, 230) -> (341, 230) -> (342, 231) -> (343, 232) -> (344, 233) -> (345, 233) -> (346, 233) -> (347, 233) -> (348, 233) -> (349, 233) -> (350, 233) -> (351, 232) -> (352, 232) -> (353, 233) -> (354, 234) -> (355, 235) -> (356, 235) -> (357, 236) -> (358, 237) -> (359, 238) -> (360, 238) -> (361, 239) -> (362, 240) -> (363, 241) -> (364, 241) -> (365, 242) -> (366, 243) -> (367, 244) -> (368, 244) -> (369, 245) -> (370, 246) -> (371, 247) -> (372, 247) -> (373, 248) -> (374, 249) -> (375, 250) -> (376, 250) -> (377, 251) -> (378, 252) -> (379, 253) -> (380, 253) -> (381, 254) -> (382, 255) -> (383, 256) -> (384, 256) -> (385, 256) -> (386, 256) -> (387, 256) -> (388, 256) -> (389, 256) -> (390, 255) -> (391, 254) -> (392, 253) -> (393, 252) -> (394, 251) -> (395, 250) -> (396, 249) -> (397, 248) -> (398, 247) -> (399, 246) -> (400, 245) -> (401, 244) -> (402, 243) -> (403, 242) -> (404, 241) -> (405, 240) -> (406, 239) -> (407, 238) -> (408, 237) -> (409, 236) -> (410, 236) -> (411, 236) -> (412, 236) -> (413, 236) -> (414, 236) -> (415, 236) -> (416, 236) -> (417, 235) -> (418, 234) -> (419, 233) -> (420, 233) -> (421, 233) -> (422, 232) ->		
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(423, 231) -> (424, 230) -> (425, 229) -> (426, 228) -> (427, 227) -> (428, 226) -> (429, 225) -> (430, 224) -> (431, 223) -> (432, 222) -> (433, 221) -> (434, 220) -> (435, 219) -> (436, 218) -> (437, 217) -> (438, 216) -> (439, 216) -> (440, 217) -> (441, 218) -> (442, 219) -> (443, 219) -> (444, 219) -> (445, 218) -> (446, 217) -> (447, 216) -> (448, 216) -> (449, 216) -> (450, 216) -> (451, 216) -> (452, 216) -> (453, 216) -> (454, 216) -> (455, 216) -> (456, 217) -> (457, 217) -> (458, 218) -> (459, 219) -> (460, 220) -> (461, 220) -> (462, 221) -> (463, 222) -> (464, 223) -> (465, 224) -> (466, 225) -> (467, 226) -> (468, 227) -> (469, 228) -> (470, 229) -> (471, 230) -> (472, 231) -> (473, 232) -> (474, 233) -> (475, 234) -> (476, 235) -> (477, 236) -> (478, 237) -> (479, 238) -> (480, 239) -> (481, 240) -> (482, 241) -> (483, 242) -> (484, 243) -> (485, 244) -> (486, 245) -> (487, 246) -> (488, 247) -> (489, 248) -> (490, 249) -> (490, 250) -> (491, 251) -> (492, 252) -> (492, 253) -> (492, 254) -> (493, 255) -> (494, 256) -> (495, 257) -> (496, 258) -> (497, 259) -> (498, 260) -> (499, 261) -> (500, 262) -> (501, 263) -> (502, 264) -> (503, 265) -> (504, 266) -> (505, 267) -> (506, 268) -> (507, 269) -> (508, 270) -> (509, 271) -> (510, 272) -> (510, 273) -> (511, 274) -> (512, 275) -> (513, 276) -> (514, 277) -> (515, 278) -> (516, 279) -> (517, 280) -> (518, 281) -> (519, 282) -> (520, 283) -> (521, 284) -> (522, 285) -> (523, 286) -> (524, 287) -> (525, 288) -> (526, 289) -> (527, 290) -> (528, 291) ->		
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(529, 292) -> (530, 293) -> (531, 294) -> (532, 295) -> (533, 296) -> (534, 297) -> (535, 298) -> (536, 299) -> (537, 300) -> (538, 301) -> (539, 302) -> (540, 303) -> (541, 304) -> (542, 305) -> (543, 306) -> (544, 307) -> (545, 308) -> (546, 309) -> (547, 310) -> (548, 311) -> (549, 312) -> (550, 313) -> (551, 314) -> (552, 315) -> (553, 316) -> (554, 317) -> (555, 318) -> (556, 319) -> (557, 320) -> (558, 321) -> (559, 322) -> (560, 323) -> (561, 324) -> (562, 325) -> (563, 326) -> (564, 327) -> (565, 328) -> (566, 329) -> (567, 330) -> (568, 331) -> (569, 332) -> (570, 333) -> (571, 334) -> (572, 335) -> (573, 336) -> (574, 337) -> (575, 338) -> (576, 339) -> (577, 340) -> (578, 341) -> (579, 342) -> (580, 343) -> (581, 344) -> (582, 345) -> (583, 346) -> (584, 347) -> (585, 348) -> (586, 349) -> (587, 350) -> (587, 351) -> (587, 352) -> (587, 353) -> (587, 354) -> (587, 355) -> (587, 356) -> (587, 357) -> (587, 358) -> (587, 359) -> (587, 360) -> (587, 361) -> (587, 362) -> (587, 363) -> (587, 364) -> (587, 365) -> (587, 366) -> (587, 367) -> (587, 368) -> (586, 369) -> (586, 370) -> (586, 371) -> (586, 372) -> (586, 373) -> (586, 374) -> (586, 375) -> (586, 376) -> (586, 377) -> (586, 378) -> (587, 379) -> (588, 380) -> (589, 381) -> (590, 382) -> (591, 383) -> (592, 384) -> (593, 385) -> (594, 385) -> (595, 386) -> (596, 387) -> (597, 388) -> (598, 389) -> (598, 390) -> (599, 391) -> (600, 392) -> (600, 393) -> (600, 394) -> (601, 395) -> (602, 395) -> (603, 395) -> (604, 396) -> (605, 397) -> (606, 398) ->		
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(607, 399) -> (608, 400) -> (609, 401) -> (610, 402) -> (611, 403) -> (612, 404) -> (613, 405) -> (614, 406) -> (615, 407) -> (616, 408) -> (617, 409) -> (618, 410) -> (618, 411) -> (619, 412) -> (620, 413) -> (621, 414) -> (622, 414) -> (623, 415) -> (624, 416) -> (625, 417) -> (626, 418) -> (627, 419) -> (628, 420) -> (629, 421) -> (630, 422) -> (631, 422) -> (632, 422) -> (633, 423) -> (634, 424) -> (634, 425) -> (634, 426) -> (635, 427) -> (636, 428) -> (637, 429) -> (638, 430) -> (639, 431) -> (640, 431) -> (641, 431) -> (642, 431) -> (643, 431) -> (644, 431) -> (645, 430) -> (646, 429) -> (647, 428) -> (648, 428) -> (649, 428) -> (650, 428) -> (651, 428) -> (652, 428) -> (653, 428) -> (654, 428) -> (655, 428) -> (656, 428) -> (657, 428) -> (658, 428) -> (659, 428) -> (660, 428) -> (661, 428) -> (662, 428) -> (663, 428) -> (664, 428) -> (665, 428) -> (666, 428) -> (667, 429) -> (667, 430) -> (668, 431) -> (669, 432) -> (670, 433) -> (671, 434) -> (672, 435) -> (673, 436) -> (674, 437) -> (675, 438) -> (676, 439) -> (677, 440) -> (678, 441) -> (679, 442) -> (680, 443) -> (681, 444) -> (682, 445) -> (683, 446) -> (684, 447) -> (685, 448) -> (686, 449) -> (687, 450) -> (688, 451) -> (689, 452) -> (690, 453) -> (691, 454) -> (692, 455) -> (693, 456) -> (694, 457) -> (695, 458) -> (696, 459) -> (697, 460) -> (698, 461) -> (699, 462) -> (700, 463) -> (701, 464) -> (702, 465) -> (703, 466) -> (704, 467) -> (705, 468) -> (706, 469) -> (707, 470) -> (707, 471) -> (707, 472) -> (708, 473) -> (709, 474) -> (710, 475) ->		
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(711, 476) -> (712, 477) -> (713, 478) -> (714, 479) -> (715, 480) -> (716, 481) -> (716, 482) -> (717, 483) -> (718, 484) -> (719, 485) -> (719, 486) -> (720, 487) -> (721, 488) -> (721, 489) -> (722, 490) -> (723, 491) -> (724, 492) -> (724, 493) -> (725, 494) -> (726, 495) -> (727, 496) -> (727, 497) -> (728, 498) -> (729, 499) -> (729, 500) -> (730, 501) -> (731, 502) -> (732, 503) -> (732, 504) -> (733, 505) -> (734, 506) -> (735, 507) -> (736, 508) -> (737, 509) -> (737, 510) -> (738, 511) -> (739, 512) -> (740, 513) -> (741, 514) -> (742, 515) -> (743, 516) -> (744, 517) -> (745, 518) -> (746, 519) -> (747, 520) -> (748, 521) -> (749, 522) -> (750, 523) -> (751, 524) -> (752, 525) -> (753, 526) -> (754, 527) -> (755, 528) -> (756, 529) -> (757, 530) -> (758, 531) -> (759, 532) -> (760, 533) -> (761, 534) -> (761, 535) -> (762, 536) -> (763, 537) -> (764, 538) -> (765, 539) -> (766, 540) -> (767, 541) -> (768, 542) -> (768, 543) -> (769, 544) -> (770, 545) -> (771, 546) -> (772, 547) -> (773, 548) -> (774, 549) -> (775, 550) -> (775, 551) -> (775, 552) -> (775, 553) -> (774, 554) -> (773, 555) -> (772, 556) -> (771, 557) -> (771, 558) -> (771, 559) -> (771, 560) -> (771, 561) -> (771, 562) -> (771, 563) -> (772, 564) -> (773, 565) -> (773, 566) -> (774, 567) -> (775, 568) -> (776, 569) -> (777, 570) -> (778, 571) -> (779, 572) -> (780, 572) -> (781, 572) -> (782, 572) -> (783, 573) -> (784, 574) -> (785, 575) -> (786, 576) -> (787, 577) -> (788, 578) -> (788, 579) -> (788, 580) -> (788, 581) -> (789, 582) ->		
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(790, 583) -> (791, 584) -> (792, 585) -> (793, 586) -> (794, 587) -> (795, 588) -> (796, 589) -> (797, 590) -> (798, 591) -> (799, 591) -> (800, 592) -> (801, 593) -> (802, 594) -> (803, 595) -> (804, 595) -> (805, 596) -> (806, 597) -> (807, 598) -> (808, 599) -> (808, 600) -> (809, 601) -> (810, 602) -> (810, 603) -> (811, 604) -> (812, 605) -> (813, 606) -> (814, 607) -> (815, 608) -> (816, 609) -> (817, 609) -> (818, 610) -> (818, 611) -> (819, 612) -> (820, 613) -> (821, 614) -> (822, 615) -> (823, 616) -> (824, 616) -> (825, 617) -> (825, 618) -> (825, 619) -> (826, 620) -> (827, 621) -> (828, 622) -> (829, 623) -> (830, 623) -> (831, 623) -> (832, 624) -> (833, 625) -> (834, 626) -> (834, 627) -> (835, 628) -> (836, 628) -> (837, 629) -> (838, 630) -> (839, 631) -> (840, 632) -> (841, 632) -> (842, 632) -> (843, 633) -> (844, 634) -> (844, 635) -> (844, 636) -> (845, 637) -> (846, 638) -> (847, 639) -> (848, 640) -> (849, 641) -> (850, 642) -> (851, 643) -> (852, 644) -> (853, 645) -> (854, 646) -> (855, 647) -> (856, 647) -> (857, 647) -> (858, 648) -> (859, 649) -> (859, 650) -> (859, 651) -> (860, 652) -> (861, 653) -> (862, 654) -> (863, 655) -> (863, 656) -> (864, 657) -> (865, 658) -> (866, 658) -> (867, 659) -> (867, 660) -> (867, 661) -> (868, 662) -> (869, 662) -> (870, 663) -> (871, 663) -> (872, 664) -> (873, 665) -> (874, 666) -> (875, 667) -> (876, 668) -> (877, 669) -> (878, 670) -> (878, 671) -> (879, 672) -> (880, 672) -> (881, 673) -> (882, 674) -> (883, 675) -> (884, 676) -> (885, 677) ->		
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(886, 678) -> (887, 679) -> (888, 680) -> (889, 681) -> (890, 682) -> (891, 683) -> (892, 684) -> (893, 685) -> (894, 686) -> (895, 687) -> (896, 688) -> (897, 689) -> (898, 690) -> (899, 691) -> (900, 692) -> (901, 693) -> (902, 694) -> (903, 695) -> (904, 696) -> (905, 697) -> (905, 698) -> (905, 699) -> (905, 700) -> (905, 701) -> (904, 702) -> (905, 703) -> (904, 704) -> (904, 705) -> (903, 706) -> (902, 707) -> (901, 708) -> (901, 709) -> (900, 710) -> (901, 711) -> (902, 712) -> (903, 713) -> (904, 714) -> (905, 713) -> (906, 713) -> (907, 713) -> (908, 712) -> (909, 712) -> (910, 713) -> (910, 714) -> (910, 715) -> (909, 716) -> (908, 717) -> (909, 718) -> (908, 719) -> (908, 720) -> (907, 721) -> (907, 722) -> (907, 723) -> (907, 724) -> (907, 725) -> (907, 726) -> (908, 727) -> (909, 727) -> (910, 728) -> (910, 729) -> (911, 730) -> (912, 731) -> (912, 732) -> (912, 733) -> (911, 734) -> (910, 735) -> (910, 736) -> (910, 737) -> (911, 738) -> (910, 739) -> (910, 740) -> (910, 741) -> (909, 742) -> (909, 743) -> (910, 744) -> (911, 744) -> (912, 744) -> (913, 744) -> (914, 745) -> (914, 746) -> (915, 747) -> (915, 748) -> (915, 749) -> (916, 750) -> (916, 751) -> (916, 752) -> (915, 753) -> (915, 754) -> (914, 755) -> (914, 756) -> (915, 757) -> (916, 758) -> (917, 759) -> (917, 760) -> (918, 761) -> (919, 762) -> (920, 763) -> (921, 764) -> (922, 763) -> (923, 763) -> (924, 764) -> (925, 765) -> (926, 766) -> (927, 767) -> (927, 768) -> (927, 769) -> (928, 770) -> (929, 769) -> (930, 770) -> (931, 771) ->		
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(932, 770) -> (933, 771) -> (934, 772) -> (935, 772) -> (936, 773) -> (937, 774) -> (938, 775) -> (939, 776) -> (940, 777) -> (941, 777) -> (942, 778) -> (943, 778) -> (944, 778) -> (945, 779) -> (946, 780) -> (947, 779) -> (948, 780) -> (949, 781) -> (950, 782) -> (950, 783) -> (951, 784) -> (952, 785) -> (953, 786) -> (954, 786) -> (955, 785) -> (956, 785) -> (957, 784) -> (958, 785) -> (959, 786) -> (959, 787) -> (960, 788) -> (961, 789) -> (962, 790) -> (963, 789) -> (964, 789) -> (965, 789) -> (966, 788) -> (967, 787) -> (967, 786) -> (968, 785) -> (969, 785) -> (970, 785) -> (971, 786) -> (972, 787) -> (973, 788) -> (974, 788) -> (975, 787) -> (976, 786) -> (977, 787) -> (978, 788) -> (979, 788) -> (980, 789) -> (981, 788) -> (982, 787) -> (983, 787) -> (984, 787) -> (985, 787) -> (986, 786) -> (987, 785) -> (988, 785) -> (989, 785) -> (990, 784) -> (991, 784) -> (992, 784) -> (993, 785) -> (992, 786) -> (993, 787) -> (994, 787) -> (995, 787) -> (996, 788) -> (997, 789) -> (998, 790) -> (999, 791) -> (1000, 792) -> (1001, 793) -> (1002, 793) -> (1003, 793) -> (1004, 793) -> (1005, 793) -> (1006, 793) -> (1007, 793) -> (1008, 794) -> (1009, 795) -> (1010, 796) -> (1009, 797) -> (1008, 797) -> (1007, 797) -> (1006, 798) -> (1007, 799)		
(776, 837) -> (775, 837) -> (774, 837) -> (773, 837) -> (772, 837) -> (771, 837) -> (770, 837) -> (769, 837) -> (768, 837) -> (767, 837) -> (766, 838) -> (765, 839) -> (764, 840) -> (763, 841) -> (762, 842) -> (761, 843) -> (760, 844) -> (759, 845) -> (758, 846) -> (757, 847) ->	1229	3578.30 ms

(756, 848) -> (755, 849) -> (754, 850) -> (753, 851) -> (752, 852) -> (751, 853) -> (750, 854) -> (749, 855) -> (748, 856) -> (747, 857) -> (746, 858) -> (745, 859) -> (744, 860) -> (743, 861) -> (742, 862) -> (741, 863) -> (740, 864) -> (739, 865) -> (738, 866) -> (737, 867) -> (736, 868) -> (735, 869) -> (734, 870) -> (733, 871) -> (732, 872) -> (731, 873) -> (730, 874) -> (729, 875) -> (728, 876) -> (727, 877) -> (726, 878) -> (725, 879) -> (724, 880) -> (723, 881) -> (722, 882) -> (721, 883) -> (720, 884) -> (719, 885) -> (718, 886) -> (717, 887) -> (716, 888) -> (715, 889) -> (714, 890) -> (713, 891) -> (712, 892) -> (711, 893) -> (710, 894) -> (709, 895) -> (708, 896) -> (707, 897) -> (706, 898) -> (705, 899) -> (704, 900) -> (703, 901) -> (702, 902) -> (701, 903) -> (700, 904) -> (699, 905) -> (698, 906) -> (697, 907) -> (696, 908) -> (695, 909) -> (694, 910) -> (693, 911) -> (692, 912) -> (691, 913) -> (690, 914) -> (689, 915) -> (688, 916) -> (687, 917) -> (686, 918) -> (685, 919) -> (684, 920) -> (683, 921) -> (682, 922) -> (681, 923) -> (680, 924) -> (679, 925) -> (678, 926) -> (677, 926) -> (676, 927) -> (675, 928) -> (674, 929) -> (673, 930) -> (672, 930) -> (671, 931) -> (670, 932) -> (669, 933) -> (668, 934) -> (667, 934) -> (666, 934) -> (665, 934) -> (664, 934) -> (663, 935) -> (662, 936) -> (661, 937) -> (660, 938) -> (659, 939) -> (658, 940) -> (657, 941) -> (656, 941) -> (655, 941) -> (654, 941) -> (653, 941) -> (652, 941) -> (651, 941) -> (650, 941) -> (649, 941) -> (648, 941) -> (647, 941) ->		
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(445, 767) -> (444, 766) -> (443, 765) -> (443, 764) -> (443, 763) -> (442, 762) -> (441, 761) -> (440, 760) -> (439, 759) -> (438, 758) -> (437, 757) -> (436, 756) -> (435, 755) -> (434, 754) -> (433, 753) -> (432, 752) -> (431, 751) -> (430, 750) -> (429, 749) -> (428, 748) -> (427, 747) -> (426, 746) -> (425, 745) -> (425, 744) -> (425, 743) -> (425, 742) -> (425, 741) -> (424, 740) -> (423, 739) -> (422, 738) -> (422, 737) -> (422, 736) -> (422, 735) -> (422, 734) -> (422, 733) -> (422, 732) -> (422, 731) -> (421, 730) -> (420, 729) -> (419, 728) -> (419, 727) -> (419, 726) -> (419, 725) -> (419, 724) -> (419, 723) -> (419, 722) -> (419, 721) -> (419, 720) -> (419, 719) -> (419, 718) -> (419, 717) -> (419, 716) -> (419, 715) -> (419, 714) -> (419, 713) -> (419, 712) -> (419, 711) -> (419, 710) -> (419, 709) -> (419, 708) -> (419, 707) -> (419, 706) -> (419, 705) -> (419, 704) -> (419, 703) -> (418, 702) -> (417, 701) -> (416, 700) -> (415, 699) -> (414, 698) -> (413, 697) -> (412, 696) -> (411, 695) -> (411, 694) -> (411, 693) -> (410, 692) -> (409, 691) -> (408, 690) -> (407, 689) -> (406, 688) -> (405, 687) -> (404, 686) -> (403, 685) -> (402, 684) -> (401, 683) -> (400, 682) -> (399, 681) -> (398, 680) -> (398, 679) -> (397, 678) -> (396, 677) -> (395, 676) -> (394, 675) -> (393, 674) -> (392, 673) -> (391, 672) -> (390, 671) -> (389, 670) -> (388, 670) -> (387, 669) -> (386, 668) -> (385, 667) -> (384, 666) -> (383, 665) -> (382, 664) -> (381, 663) -> (380, 662) -> (379, 661) -> (378, 660) -> (377, 659) ->		
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(376, 658) -> (375, 657) -> (374, 656) -> (373, 655) -> (372, 654) -> (371, 653) -> (370, 652) -> (369, 651) -> (368, 650) -> (367, 649) -> (366, 648) -> (365, 647) -> (364, 646) -> (363, 645) -> (362, 644) -> (361, 643) -> (360, 642) -> (359, 641) -> (358, 640) -> (357, 639) -> (356, 638) -> (355, 637) -> (354, 636) -> (353, 635) -> (352, 634) -> (351, 633) -> (350, 632) -> (349, 631) -> (348, 630) -> (347, 629) -> (346, 628) -> (345, 627) -> (345, 626) -> (344, 625) -> (344, 624) -> (343, 623) -> (342, 622) -> (342, 621) -> (341, 620) -> (340, 619) -> (339, 618) -> (338, 617) -> (337, 616) -> (336, 615) -> (335, 614) -> (334, 613) -> (333, 612) -> (332, 611) -> (332, 610) -> (332, 609) -> (331, 608) -> (330, 607) -> (329, 606) -> (328, 605) -> (327, 604) -> (326, 603) -> (325, 602) -> (324, 601) -> (323, 600) -> (322, 599) -> (321, 598) -> (320, 597) -> (320, 596) -> (319, 595) -> (318, 594) -> (317, 593) -> (316, 592) -> (315, 591) -> (314, 590) -> (313, 589) -> (312, 588) -> (311, 587) -> (310, 586) -> (309, 585) -> (308, 584) -> (307, 583) -> (306, 582) -> (305, 581) -> (304, 580) -> (304, 579) -> (303, 578) -> (303, 577) -> (304, 576) -> (305, 575) -> (306, 574) -> (306, 573) -> (305, 572) -> (305, 571) -> (304, 570) -> (304, 569) -> (303, 568) -> (303, 567) -> (302, 566) -> (301, 565) -> (301, 564) -> (301, 563) -> (300, 562) -> (300, 561) -> (299, 560) -> (299, 559) -> (298, 558) -> (298, 557) -> (297, 556) -> (297, 555) -> (296, 554) -> (296, 553) -> (295, 552) -> (295, 551) -> (294, 550) -> (294, 549) ->		
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(212, 439) -> (212, 438) -> (211, 437) -> (210, 436) -> (209, 435) -> (208, 434) -> (207, 433) -> (206, 432) -> (205, 431) -> (204, 430) -> (204, 429) -> (203, 428) -> (202, 427) -> (201, 426) -> (200, 425) -> (199, 424) -> (198, 423) -> (197, 422) -> (196, 421) -> (195, 420) -> (194, 419) -> (193, 418) -> (192, 417) -> (191, 416) -> (190, 415) -> (189, 414) -> (188, 414) -> (187, 413) -> (186, 412) -> (185, 411) -> (184, 410) -> (183, 409) -> (182, 409) -> (181, 408) -> (180, 408) -> (179, 407) -> (178, 406) -> (177, 405) -> (176, 404) -> (175, 403) -> (174, 402) -> (173, 401) -> (172, 400) -> (171, 399) -> (170, 398) -> (169, 397) -> (168, 396) -> (167, 395) -> (166, 394) -> (165, 393) -> (164, 392) -> (163, 391) -> (162, 390) -> (161, 390) -> (160, 390) -> (159, 390) -> (158, 389) -> (157, 388) -> (156, 387) -> (155, 386) -> (154, 385) -> (153, 384) -> (152, 383) -> (151, 382) -> (150, 381) -> (149, 380) -> (148, 379) -> (147, 378) -> (146, 377) -> (145, 376) -> (144, 375) -> (143, 374) -> (142, 373) -> (141, 372) -> (140, 371) -> (139, 370) -> (138, 369) -> (137, 368) -> (136, 367) -> (135, 366) -> (134, 365) -> (133, 364) -> (132, 363) -> (131, 362) -> (130, 361) -> (129, 360) -> (128, 359) -> (127, 358) -> (126, 357) -> (125, 356) -> (124, 355) -> (123, 354) -> (122, 353) -> (121, 352) -> (120, 351) -> (119, 350) -> (119, 349) -> (118, 348) -> (117, 347) -> (116, 346) -> (115, 345) -> (114, 344) -> (113, 343) -> (112, 342) -> (111, 341) -> (110, 340) -> (109, 339) -> (108, 338) -> (107, 337) -> (106, 336) ->		
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-> (20, 93) -> (21, 92) -> (22, 92) -> (23, 91) -> (24, 91) -> (25, 91) -> (26, 90) -> (25, 89) -> (26, 88) -> (25, 87) -> (26, 86) -> (27, 85) -> (28, 85) -> (29, 84) -> (29, 83) -> (29, 82) -> (28, 81) -> (28, 80) -> (28, 79) -> (27, 78) -> (27, 77) -> (28, 76) -> (27, 75) -> (26, 75) -> (25, 74) -> (26, 73) -> (27, 72) -> (28, 71) -> (29, 70) -> (30, 69) -> (30, 68) -> (31, 67) -> (32, 67) -> (33, 67) -> (34, 68) -> (35, 68) -> (36, 68) -> (37, 67) -> (38, 67) -> (39, 67) -> (40, 67) -> (41, 67) -> (42, 68) -> (43, 68) -> (44, 69) -> (45, 69) -> (46, 69) -> (47, 69) -> (48, 69) -> (49, 69) -> (50, 70) -> (51, 71) -> (52, 71) -> (53, 70) -> (53, 69) -> (54, 68) -> (53, 67) -> (52, 66) -> (51, 65) -> (50, 64) -> (49, 63) -> (49, 62) -> (48, 61) -> (48, 60) -> (48, 59) -> (47, 58) -> (47, 57) -> (47, 56) -> (48, 55) -> (49, 56) -> (50, 56) -> (51, 55) -> (52, 54) -> (52, 53) -> (51, 52) -> (52, 51) -> (53, 50) -> (54, 49) -> (55, 48) -> (56, 47) -> (57, 47) -> (58, 46) -> (58, 45) -> (59, 44) -> (60, 43) -> (59, 42) -> (58, 41) -> (58, 40) -> (57, 39) -> (57, 38) -> (57, 37) -> (57, 36) -> (56, 35) -> (55, 34) -> (54, 33) -> (53, 32) -> (53, 31) -> (54, 30) -> (55, 30) -> (56, 29) -> (57, 28) -> (58, 29) -> (59, 30) -> (60, 31) -> (61, 31) -> (62, 32) -> (63, 31) -> (64, 30) -> (65, 29) -> (66, 28) -> (65, 27) -> (65, 26) -> (66, 25) -> (67, 25) -> (68, 24) -> (69, 24) -> (70, 23) -> (71, 23) -> (72, 23) -> (73, 22) -> (74, 21) -> (74, 20) -> (75, 19) -> (76, 18) -> (77, 18) -> (78, 19) -> (79, 19) -> (80, 19) -> (81, 18) -> (82, 18) -> (83, 18) -> (84, 19) -> (85, 19) -> (86, 19) -> (87, 18) -> (88, 17) -> (88, 16) -> (88, 15) -> (89, 14) -> (90, 13) -> (91, 12) -> (92, 12) -> (93, 13) -> (94, 14) -> (95, 14) -> (96, 14) -> (97,

14) -> (98, 14) -> (99, 14) -> (100, 13) -> (101, 14) -> (102, 14) -> (103, 13) -> (103, 12) -> (103, 11) -> (104, 10) -> (105, 9) -> (104, 8) -> (105, 7) -> (105, 6) -> (106, 5) -> (106, 4) -> (107, 3) -> (106, 2) -> (106, 1) -> (105, 0) -> (104, 1) -> (103, 0) -> (102, 1)		
(19, 3) -> (19, 4) -> (19, 5) -> (19, 6) -> (19, 7) -> (19, 8) -> (19, 9) -> (19, 10) -> (19, 11) - > (19, 12) -> (19, 13) -> (19, 14) -> (19, 15) -> (19, 16) -> (20, 17) -> (21, 18) -> (22, 19) -> (23, 20) -> (24, 21) -> (25, 22) -> (26, 23) -> (27, 24) -> (28, 25) -> (29, 26) -> (30, 27) -> (31, 28) -> (32, 29) -> (33, 30) -> (34, 31) -> (35, 32) -> (36, 33) -> (37, 34) -> (38, 35) -> (39, 36) -> (40, 37) -> (41, 38) -> (42, 39) -> (43, 40) -> (44, 41) -> (45, 42) -> (46, 43) -> (47, 44) -> (48, 45) -> (49, 46) -> (50, 47) -> (51, 48) -> (52, 49) -> (53, 50) -> (54, 51) -> (55, 52) -> (56, 53) -> (57, 54) -> (58, 55) -> (59, 56) -> (60, 57) -> (61, 58) -> (62, 59) -> (63, 60) -> (64, 61) -> (65, 62) -> (66, 63) -> (67, 64) -> (68, 65) -> (69, 66) -> (70, 67) -> (71, 68) -> (72, 69) -> (73, 70) -> (74, 71) -> (75, 72) -> (76, 73) -> (77, 74) -> (78, 75) -> (79, 76) -> (80, 77) -> (81, 78) -> (82, 79) -> (83, 80) -> (84, 81) -> (85, 82) -> (86, 83) -> (87, 84) -> (88, 85) -> (89, 86) -> (90, 87) -> (91, 88) -> (92, 89) -> (93, 90) -> (94, 91) -> (95, 92) -> (96, 93) -> (97, 94) -> (98, 95) -> (99, 96) -> (100, 97) -> (101, 98) -> (102, 99) -> (103, 100) -> (104, 101) -> (105, 102) -> (106, 103) -> (107, 104) -> (108, 105) -> (109, 106) -> (110, 107) -> (111, 108) -> (112, 109) -> (113, 110) -> (114, 111) -> (115, 112) -> (116, 113) -> (117, 114) -> (118, 115) -> (119, 116) -> (120, 117) -> (121, 118) -> (122, 119) ->	1308	3239.30 ms

(123, 120) -> (124, 121) -> (125, 122) -> (126, 123) -> (127, 124) -> (128, 125) -> (129, 126) -> (130, 127) -> (131, 128) -> (132, 129) -> (133, 130) -> (134, 131) -> (135, 132) -> (136, 133) -> (137, 134) -> (138, 135) -> (139, 136) -> (140, 137) -> (141, 138) -> (142, 139) -> (143, 140) -> (144, 141) -> (145, 142) -> (146, 143) -> (147, 144) -> (148, 145) -> (149, 146) -> (150, 147) -> (151, 148) -> (152, 149) -> (153, 150) -> (154, 151) -> (155, 152) -> (156, 153) -> (157, 154) -> (158, 155) -> (159, 156) -> (160, 157) -> (161, 158) -> (162, 159) -> (163, 160) -> (164, 161) -> (165, 162) -> (166, 163) -> (167, 164) -> (168, 165) -> (169, 166) -> (170, 167) -> (171, 168) -> (172, 169) -> (173, 170) -> (174, 171) -> (175, 172) -> (176, 173) -> (177, 174) -> (178, 175) -> (179, 176) -> (180, 177) -> (181, 178) -> (182, 179) -> (183, 180) -> (184, 181) -> (185, 182) -> (186, 183) -> (187, 184) -> (188, 185) -> (189, 186) -> (190, 187) -> (191, 188) -> (192, 189) -> (193, 190) -> (194, 191) -> (195, 192) -> (196, 193) -> (197, 194) -> (198, 195) -> (199, 196) -> (200, 197) -> (201, 198) -> (202, 199) -> (203, 200) -> (204, 201) -> (205, 202) -> (206, 203) -> (207, 204) -> (208, 205) -> (209, 206) -> (210, 207) -> (211, 208) -> (212, 209) -> (213, 210) -> (214, 211) -> (215, 212) -> (216, 213) -> (217, 214) -> (218, 215) -> (219, 216) -> (220, 217) -> (221, 218) -> (222, 219) -> (223, 220) -> (224, 221) -> (225, 222) -> (226, 223) -> (227, 224) -> (228, 225) -> (229, 226) -> (230, 227) -> (231, 228) -> (232, 229) ->		
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(233, 230) -> (234, 231) -> (235, 232) -> (236, 233) -> (237, 234) -> (238, 235) -> (239, 236) -> (240, 237) -> (241, 238) -> (242, 239) -> (243, 240) -> (244, 241) -> (245, 242) -> (246, 243) -> (247, 244) -> (248, 245) -> (249, 246) -> (250, 247) -> (251, 248) -> (252, 249) -> (253, 250) -> (254, 251) -> (255, 252) -> (256, 253) -> (257, 254) -> (258, 255) -> (259, 256) -> (260, 257) -> (261, 258) -> (262, 259) -> (263, 260) -> (264, 261) -> (265, 262) -> (266, 263) -> (267, 264) -> (268, 265) -> (269, 266) -> (270, 267) -> (271, 268) -> (272, 269) -> (273, 270) -> (274, 271) -> (275, 272) -> (276, 273) -> (277, 274) -> (278, 275) -> (279, 276) -> (280, 277) -> (281, 278) -> (282, 279) -> (283, 280) -> (284, 281) -> (285, 282) -> (286, 283) -> (287, 284) -> (288, 285) -> (289, 286) -> (290, 287) -> (291, 288) -> (292, 289) -> (293, 289) -> (294, 289) -> (295, 289) -> (296, 289) -> (297, 289) -> (298, 289) -> (299, 289) -> (300, 289) -> (301, 289) -> (302, 289) -> (303, 289) -> (304, 289) -> (305, 288) -> (306, 287) -> (307, 286) -> (308, 285) -> (309, 284) -> (310, 283) -> (311, 282) -> (312, 281) -> (313, 280) -> (314, 279) -> (315, 278) -> (316, 277) -> (317, 276) -> (318, 275) -> (319, 274) -> (320, 273) -> (321, 272) -> (322, 271) -> (323, 270) -> (324, 269) -> (325, 268) -> (326, 267) -> (327, 266) -> (328, 265) -> (329, 264) -> (330, 263) -> (331, 262) -> (332, 261) -> (333, 260) -> (334, 259) -> (335, 258) -> (336, 257) -> (337, 256) -> (338, 255) -> (339, 254) -> (340, 253) -> (341, 252) -> (342, 251) ->		
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(343, 250) -> (344, 249) -> (345, 248) -> (346, 247) -> (347, 246) -> (348, 245) -> (349, 244) -> (350, 243) -> (351, 242) -> (352, 241) -> (353, 240) -> (354, 239) -> (355, 238) -> (356, 237) -> (357, 236) -> (358, 235) -> (359, 234) -> (360, 233) -> (361, 233) -> (362, 232) -> (363, 231) -> (364, 230) -> (365, 229) -> (366, 229) -> (367, 228) -> (368, 227) -> (369, 226) -> (370, 225) -> (371, 224) -> (372, 223) -> (373, 222) -> (374, 221) -> (375, 220) -> (376, 219) -> (377, 218) -> (378, 217) -> (379, 216) -> (380, 215) -> (381, 214) -> (382, 214) -> (383, 213) -> (384, 212) -> (385, 211) -> (386, 210) -> (387, 209) -> (388, 208) -> (389, 207) -> (390, 206) -> (391, 205) -> (392, 205) -> (393, 204) -> (394, 203) -> (395, 202) -> (396, 201) -> (397, 200) -> (398, 199) -> (399, 198) -> (400, 197) -> (401, 196) -> (402, 196) -> (403, 195) -> (404, 194) -> (405, 193) -> (406, 192) -> (407, 191) -> (408, 190) -> (409, 189) -> (410, 188) -> (411, 187) -> (412, 187) -> (413, 186) -> (414, 186) -> (415, 186) -> (416, 185) -> (417, 184) -> (418, 184) -> (419, 183) -> (420, 182) -> (421, 181) -> (422, 181) -> (423, 182) -> (424, 183) -> (425, 184) -> (426, 185) -> (427, 186) -> (428, 187) -> (429, 188) -> (430, 189) -> (431, 190) -> (432, 191) -> (433, 192) -> (434, 193) -> (435, 194) -> (436, 195) -> (437, 196) -> (438, 197) -> (439, 198) -> (440, 199) -> (441, 200) -> (442, 201) -> (443, 202) -> (444, 203) -> (445, 204) -> (446, 205) -> (447, 206) -> (448, 207) -> (449, 208) -> (450, 209) -> (451, 210) -> (452, 211) ->		
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(453, 212) -> (454, 213) -> (455, 214) -> (456, 215) -> (457, 216) -> (458, 217) -> (459, 218) -> (460, 219) -> (461, 220) -> (462, 221) -> (463, 222) -> (464, 223) -> (465, 224) -> (466, 225) -> (467, 226) -> (468, 227) -> (469, 228) -> (470, 229) -> (471, 230) -> (472, 231) -> (473, 232) -> (474, 233) -> (475, 234) -> (476, 235) -> (477, 236) -> (478, 237) -> (479, 238) -> (480, 239) -> (481, 240) -> (482, 241) -> (483, 242) -> (484, 243) -> (485, 244) -> (486, 245) -> (487, 246) -> (488, 247) -> (489, 248) -> (490, 249) -> (490, 250) -> (491, 251) -> (492, 252) -> (492, 253) -> (492, 254) -> (493, 255) -> (494, 256) -> (495, 257) -> (496, 258) -> (497, 259) -> (498, 260) -> (499, 261) -> (500, 262) -> (501, 263) -> (502, 264) -> (503, 265) -> (504, 266) -> (505, 267) -> (506, 268) -> (507, 269) -> (508, 270) -> (509, 271) -> (510, 272) -> (510, 273) -> (511, 274) -> (512, 275) -> (513, 276) -> (514, 277) -> (515, 278) -> (516, 279) -> (517, 280) -> (518, 281) -> (519, 282) -> (520, 283) -> (521, 284) -> (522, 285) -> (523, 286) -> (524, 287) -> (525, 288) -> (526, 289) -> (527, 290) -> (528, 291) -> (529, 292) -> (529, 293) -> (530, 294) -> (531, 295) -> (532, 296) -> (533, 297) -> (534, 298) -> (535, 299) -> (536, 300) -> (537, 301) -> (538, 302) -> (539, 303) -> (540, 304) -> (541, 305) -> (542, 306) -> (543, 307) -> (544, 308) -> (545, 309) -> (546, 310) -> (547, 311) -> (548, 312) -> (549, 313) -> (550, 314) -> (551, 314) -> (552, 315) -> (553, 316) -> (554, 317) -> (555, 318) -> (556, 319) -> (557, 320) ->		
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(558, 321) -> (559, 322) -> (560, 323) -> (561, 324) -> (562, 325) -> (563, 326) -> (564, 327) -> (565, 328) -> (566, 329) -> (567, 330) -> (568, 331) -> (569, 332) -> (570, 333) -> (571, 334) -> (572, 335) -> (573, 336) -> (574, 337) -> (575, 338) -> (576, 339) -> (577, 340) -> (578, 341) -> (579, 342) -> (580, 343) -> (581, 344) -> (582, 345) -> (583, 346) -> (584, 347) -> (585, 348) -> (586, 349) -> (587, 350) -> (588, 351) -> (589, 352) -> (590, 353) -> (591, 354) -> (592, 355) -> (593, 356) -> (594, 357) -> (595, 358) -> (596, 359) -> (597, 360) -> (598, 361) -> (599, 362) -> (600, 363) -> (601, 364) -> (602, 365) -> (603, 366) -> (604, 367) -> (605, 368) -> (606, 369) -> (607, 370) -> (608, 371) -> (609, 372) -> (610, 373) -> (611, 374) -> (612, 375) -> (613, 376) -> (614, 377) -> (615, 378) -> (616, 379) -> (617, 380) -> (618, 381) -> (619, 382) -> (620, 383) -> (621, 384) -> (622, 385) -> (623, 386) -> (624, 387) -> (625, 388) -> (626, 389) -> (627, 390) -> (628, 391) -> (629, 392) -> (630, 393) -> (631, 394) -> (632, 395) -> (633, 396) -> (634, 397) -> (635, 398) -> (636, 399) -> (637, 400) -> (638, 401) -> (639, 402) -> (640, 403) -> (641, 404) -> (642, 405) -> (643, 406) -> (644, 407) -> (645, 408) -> (646, 409) -> (647, 410) -> (648, 411) -> (649, 412) -> (650, 413) -> (651, 414) -> (652, 415) -> (653, 416) -> (654, 417) -> (655, 418) -> (656, 419) -> (657, 420) -> (658, 421) -> (659, 422) -> (660, 423) -> (661, 424) -> (662, 425) -> (663, 426) -> (664, 427) -> (665, 428) -> (666, 429) -> (667, 430) ->		
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(668, 431) -> (669, 432) -> (670, 433) -> (671, 434) -> (672, 435) -> (673, 436) -> (674, 437) -> (675, 438) -> (676, 439) -> (677, 440) -> (678, 441) -> (679, 442) -> (680, 443) -> (681, 444) -> (682, 445) -> (683, 446) -> (684, 447) -> (685, 448) -> (686, 449) -> (687, 450) -> (688, 451) -> (689, 452) -> (690, 453) -> (691, 454) -> (692, 455) -> (693, 456) -> (694, 457) -> (695, 458) -> (696, 459) -> (697, 460) -> (698, 461) -> (699, 462) -> (700, 463) -> (701, 464) -> (702, 465) -> (703, 466) -> (704, 467) -> (705, 468) -> (706, 469) -> (707, 470) -> (707, 471) -> (707, 472) -> (708, 473) -> (709, 474) -> (710, 475) -> (711, 476) -> (712, 477) -> (713, 478) -> (714, 479) -> (715, 480) -> (716, 481) -> (717, 482) -> (718, 483) -> (719, 484) -> (720, 485) -> (721, 486) -> (722, 487) -> (723, 488) -> (724, 489) -> (725, 490) -> (726, 491) -> (727, 492) -> (728, 493) -> (729, 494) -> (730, 495) -> (731, 496) -> (732, 497) -> (733, 498) -> (734, 499) -> (735, 500) -> (736, 501) -> (737, 502) -> (738, 503) -> (739, 504) -> (740, 505) -> (741, 506) -> (742, 507) -> (743, 508) -> (744, 509) -> (745, 510) -> (746, 511) -> (747, 512) -> (748, 513) -> (749, 514) -> (750, 515) -> (751, 516) -> (752, 517) -> (753, 518) -> (754, 519) -> (755, 520) -> (756, 521) -> (757, 522) -> (758, 523) -> (758, 524) -> (758, 525) -> (757, 526) -> (757, 527) -> (758, 528) -> (758, 529) -> (758, 530) -> (757, 531) -> (757, 532) -> (758, 533) -> (758, 534) -> (758, 535) -> (757, 536) -> (757, 537) -> (758, 538) -> (759, 539) -> (760, 540) ->		
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(760, 541) -> (761, 542) -> (762, 543) -> (763, 544) -> (764, 545) -> (764, 546) -> (764, 547) -> (763, 548) -> (763, 549) -> (764, 550) -> (764, 551) -> (765, 552) -> (766, 553) -> (767, 554) -> (768, 555) -> (769, 556) -> (770, 557) -> (770, 558) -> (771, 559) -> (772, 560) -> (773, 561) -> (774, 562) -> (775, 563) -> (776, 564) -> (776, 565) -> (777, 566) -> (777, 567) -> (778, 568) -> (778, 569) -> (779, 570) -> (780, 571) -> (781, 572) -> (782, 573) -> (783, 574) -> (784, 575) -> (784, 576) -> (785, 577) -> (786, 578) -> (787, 579) -> (788, 580) -> (789, 581) -> (790, 582) -> (790, 583) -> (791, 584) -> (792, 585) -> (793, 586) -> (794, 587) -> (795, 588) -> (796, 588) -> (797, 589) -> (798, 590) -> (799, 591) -> (800, 592) -> (801, 593) -> (802, 594) -> (803, 595) -> (804, 596) -> (805, 597) -> (805, 598) -> (806, 599) -> (806, 600) -> (807, 601) -> (807, 602) -> (808, 603) -> (809, 604) -> (810, 605) -> (811, 606) -> (812, 607) -> (813, 608) -> (813, 609) -> (814, 610) -> (815, 611) -> (816, 612) -> (817, 613) -> (818, 614) -> (819, 615) -> (820, 616) -> (821, 617) -> (821, 618) -> (822, 619) -> (823, 620) -> (824, 621) -> (825, 622) -> (825, 623) -> (826, 624) -> (827, 625) -> (828, 626) -> (828, 627) -> (828, 628) -> (829, 629) -> (830, 630) -> (830, 631) -> (831, 632) -> (832, 633) -> (833, 634) -> (834, 635) -> (835, 636) -> (836, 637) -> (836, 638) -> (837, 639) -> (838, 640) -> (839, 641) -> (840, 642) -> (841, 643) -> (842, 644) -> (843, 645) -> (844, 646) -> (845, 647) -> (846, 648) -> (846, 649) ->		
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(847, 650) -> (848, 651) -> (849, 652) -> (850, 653) -> (851, 654) -> (852, 655) -> (853, 656) -> (854, 657) -> (854, 658) -> (855, 659) -> (856, 660) -> (857, 661) -> (857, 662) -> (857, 663) -> (856, 664) -> (856, 665) -> (857, 666) -> (858, 667) -> (859, 668) -> (860, 669) -> (861, 670) -> (862, 671) -> (863, 672) -> (863, 673) -> (863, 674) -> (864, 675) -> (865, 676) -> (866, 677) -> (867, 678) -> (868, 679) -> (869, 680) -> (870, 681) -> (871, 682) -> (872, 683) -> (873, 684) -> (874, 685) -> (875, 686) -> (876, 687) -> (877, 688) -> (878, 689) -> (879, 690) -> (880, 691) -> (881, 692) -> (881, 693) -> (881, 694) -> (881, 695) -> (881, 696) -> (882, 697) -> (883, 698) -> (884, 699) -> (884, 700) -> (884, 701) -> (885, 702) -> (885, 703) -> (886, 704) -> (887, 705) -> (888, 706) -> (889, 707) -> (890, 708) -> (891, 709) -> (892, 710) -> (892, 711) -> (893, 712) -> (894, 713) -> (895, 714) -> (895, 715) -> (895, 716) -> (896, 717) -> (897, 718) -> (898, 719) -> (899, 720) -> (900, 721) -> (901, 722) -> (901, 723) -> (901, 724) -> (902, 725) -> (903, 726) -> (904, 727) -> (905, 728) -> (906, 729) -> (907, 730) -> (907, 731) -> (908, 732) -> (909, 733) -> (910, 734) -> (909, 735) -> (908, 736) -> (908, 737) -> (907, 738) -> (907, 739) -> (906, 740) -> (906, 741) -> (905, 742) -> (905, 743) -> (904, 744) -> (903, 745) -> (902, 746) -> (902, 747) -> (902, 748) -> (901, 749) -> (901, 750) -> (901, 751) -> (900, 752) -> (900, 753) -> (899, 754) -> (899, 755) -> (898, 756) -> (897, 757) -> (898, 758) -> (898, 759) ->		
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(898, 760) -> (899, 761) -> (898, 762) -> (898, 763) -> (897, 764) -> (896, 765) -> (896, 766) -> (895, 767) -> (895, 768) -> (894, 769) -> (894, 770) -> (893, 771) -> (892, 772) -> (891, 773) -> (890, 774) -> (890, 775) -> (890, 776) -> (890, 777) -> (890, 778) -> (889, 779) -> (888, 780) -> (888, 781) -> (888, 782) -> (887, 783) -> (887, 784) -> (886, 785) -> (887, 786) -> (886, 787) -> (886, 788) -> (885, 789) -> (884, 790) -> (883, 791) -> (883, 792) -> (883, 793) -> (883, 794) -> (883, 795) -> (882, 796) -> (883, 797) -> (882, 798) -> (881, 799) -> (880, 800) -> (880, 801) -> (881, 802) -> (880, 803) -> (879, 804) -> (879, 805) -> (878, 806) -> (879, 807) -> (879, 808) -> (880, 809) -> (881, 809) -> (882, 809) -> (883, 810) -> (884, 811) -> (884, 812) -> (885, 813) -> (886, 813) -> (887, 814) -> (888, 815) -> (889, 816) -> (890, 816) -> (891, 817) -> (892, 818) -> (892, 819) -> (893, 820) -> (894, 820) -> (895, 821) -> (896, 822) -> (896, 823) -> (897, 824) -> (898, 825) -> (899, 826) -> (900, 826) -> (901, 827) -> (901, 828) -> (902, 829) -> (903, 830) -> (903, 831) -> (903, 832) -> (904, 833) -> (905, 834) -> (905, 835) -> (905, 836) -> (905, 837) -> (905, 838) -> (906, 839) -> (906, 840) -> (906, 841) -> (907, 842) -> (908, 842) -> (909, 843) -> (909, 844) -> (910, 845) -> (911, 846) -> (912, 847) -> (913, 848) -> (913, 849) -> (913, 850) -> (914, 851) -> (915, 851) -> (916, 852) -> (916, 853) -> (917, 854) -> (916, 855) -> (916, 856) -> (917, 857) -> (918, 857) -> (919, 857) -> (920, 858) -> (919, 859) ->		
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(919, 860) -> (920, 861) -> (921, 862) -> (921, 863) -> (922, 864) -> (921, 865) -> (920, 866) -> (920, 867) -> (919, 868) -> (919, 869) -> (918, 870) -> (918, 871) -> (919, 872) -> (920, 873) -> (921, 873) -> (922, 874) -> (922, 875) -> (921, 876) -> (922, 877) -> (923, 878) -> (924, 878) -> (925, 879) -> (924, 880) -> (924, 881) -> (925, 882) -> (924, 883) -> (925, 884) -> (926, 885) -> (927, 886) -> (928, 887) -> (929, 888) -> (929, 889) -> (928, 890) -> (927, 891) -> (928, 892) -> (929, 893) -> (930, 894) -> (931, 895) -> (931, 896) -> (931, 897) -> (931, 898) -> (931, 899) -> (931, 900) -> (931, 901) -> (932, 902) -> (933, 903) -> (933, 904) -> (933, 905) -> (933, 906) -> (934, 907) -> (934, 908) -> (934, 909) -> (934, 910) -> (935, 911) -> (936, 912) -> (936, 913) -> (937, 914) -> (938, 915) -> (939, 916) -> (940, 917) -> (941, 918) -> (942, 919) -> (943, 919) -> (944, 919) -> (945, 920) -> (945, 921) -> (945, 922) -> (946, 923) -> (947, 924) -> (947, 925) -> (947, 926) -> (946, 927) -> (945, 927) -> (944, 928) -> (945, 929) -> (946, 929) -> (947, 930) -> (948, 931) -> (949, 932) -> (950, 933) -> (951, 933) -> (952, 934) -> (953, 935) -> (954, 936) -> (954, 937) -> (955, 938) -> (954, 939) -> (954, 940) -> (953, 941) -> (953, 942) -> (953, 943) -> (952, 944) -> (951, 945) -> (951, 946) -> (951, 947) -> (951, 948) -> (951, 949) -> (950, 950) -> (951, 951) -> (950, 952) -> (951, 953) -> (952, 954) -> (952, 955) -> (952, 956) -> (952, 957) -> (951, 958) -> (952, 959) -> (952, 960) -> (952, 961) -> (951, 962) ->		
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(952, 963) -> (952, 964) -> (951, 965) -> (950, 966) -> (951, 967) -> (952, 968) -> (953, 969) -> (954, 970) -> (954, 971) -> (955, 972) -> (956, 973) -> (956, 974) -> (956, 975) -> (956, 976) -> (956, 977) -> (955, 978) -> (955, 979) -> (955, 980) -> (955, 981) -> (956, 982) -> (957, 983) -> (958, 984) -> (959, 985) -> (960, 985) -> (961, 986) -> (962, 987) -> (963, 988) -> (963, 989) -> (963, 990) -> (962, 991) -> (961, 992) -> (961, 993) -> (962, 994) -> (963, 995) -> (964, 996) -> (965, 997) -> (965, 998) -> (966, 999) -> (967, 1000) -> (968, 1001) -> (968, 1002) -> (969, 1003) -> (969, 1004) -> (969, 1005) -> (969, 1006) -> (970, 1007) -> (971, 1007) -> (972, 1007) -> (973, 1008) -> (974, 1009) -> (975, 1010) -> (976, 1011) -> (977, 1011) -> (978, 1011) -> (979, 1011) -> (980, 1012) -> (981, 1012) -> (982, 1013) -> (982, 1014) -> (983, 1015) -> (984, 1015) -> (985, 1015) -> (986, 1016) -> (987, 1017) -> (988, 1018) -> (989, 1018) -> (990, 1018) -> (991, 1017) -> (991, 1016) -> (992, 1015) -> (993, 1015) -> (994, 1016) -> (995, 1016) -> (996, 1016) -> (997, 1016) -> (998, 1016) -> (999, 1015) -> (1000, 1014) -> (1001, 1013) -> (1002, 1012) -> > (1003, 1011) -> (1003, 1010) -> (1004, 1009) -> (1005, 1008) -> (1006, 1007) -> (1005, 1006) -> (1004, 1005) -> > (1003, 1004) -> (1003, 1003) -> (1003, 1002) -> (1004, 1001) -> (1005, 1002)		
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الگوریتم‌های A^* و GBFS (جستجوی بهترین-ابتدا) هر دو برای یافتن کوتاه‌ترین مسیر در یک شبکه استفاده می‌شوند، اما تفاوت‌های اساسی در نحوه عملکرد و کارایی آن‌ها وجود دارد. الگوریتم A^* با استفاده از هزینه واقعی (g) و هزینه تخمینی تا مقصد (h) که به عنوان مجموع این دو (f) بیان می‌شود، بهینه‌ترین مسیر را پیدا می‌کند. این الگوریتم به دلیل استفاده از تابع هیورستیک (h) که معمولاً فاصله اقلیدسی یا منهتن است، از لحاظ تضمین یافتن کوتاه‌ترین مسیر کارآمدتر است و معمولاً مسیر بهینه را سریع‌تر و با دقت بیشتری پیدا می‌کند. از سوی دیگر، الگوریتم GBFS تنها از تابع هیورستیک (h) برای هدایت جستجو استفاده می‌کند و هزینه واقعی (g) را در نظر

نمی‌گیرد، به همین دلیل ممکن است مسیری پیدا کند که کوتاه‌ترین نباشد. این الگوریتم به دلیل سادگی و سرعت بالاتر در جستجوی اولیه، در محیط‌هایی که محدودیت زمانی دارند مفید است اما تضمینی برای یافتن کوتاه‌ترین مسیر ندارد. در مجموع، الگوریتم A^* دقیق‌تر و بهینه‌تر است و برای کاربردهای حساس مناسب‌تر است، در حالی که GBFS ساده‌تر و سریع‌تر است و در کاربردهایی که نیاز به جستجوی سریع دارند می‌تواند مناسب‌تر باشد، اما ممکن است مسیری غیربهینه ارائه دهد.