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| **Test Case** |
| **Best Time Possible**  1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000 |
| **Worst Time Possible**  513, 1, 769, 257, 641, 129, 897, 385, 577, 65, 833, 321, 705, 193, 961, 449, 545, 33, 801, 289, 673, 161, 929, 417, 609, 97, 865, 353, 737, 225, 993, 481, 529, 17, 785, 273, 657, 145, 913, 401, 593, 81, 849, 337, 721, 209, 977, 465, 561, 49, 817, 305, 689, 177, 945, 433, 625, 113, 881, 369, 753, 241, 9, 497, 265, 521, 137, 777, 393, 649, 73, 905, 329, 585, 201, 841, 457, 713, 41, 969, 297, 553, 169, 809, 425, 681, 105, 937, 361, 617, 233, 873, 489, 745, 537, 25, 793, 281, 665, 153, 921, 409, 601, 89, 857, 345, 729, 217, 985, 473, 569, 57, 825, 313, 697, 185, 953, 441, 633, 121, 889, 377, 761, 249, 5, 505, 261, 517, 133, 773, 389, 645, 69, 901, 325, 581, 197, 837, 453, 709, 37, 965, 293, 549, 165, 805, 421, 677, 101, 933, 357, 613, 229, 869, 485, 741, 21, 997, 277, 533, 149, 789, 405, 661, 85, 917, 341, 597, 213, 853, 469, 725, 53, 981, 309, 565, 181, 821, 437, 693, 117, 949, 373, 629, 245, 885, 501, 757, 525, 13, 781, 269, 653, 141, 909, 397, 589, 77, 845, 333, 717, 205, 973, 461, 557, 45, 813, 301, 685, 173, 941, 429, 621, 109, 877, 365, 749, 237, 29, 493, 285, 541, 157, 797, 413, 669, 93, 925, 349, 605, 221, 861, 477, 733, 61, 989, 317, 573, 189, 829, 445, 701, 125, 957, 381, 637, 253, 893, 509, 765, 515, 3, 771, 259, 643, 131, 899, 387, 579, 67, 835, 323, 707, 195, 963, 451, 547, 35, 803, 291, 675, 163, 931, 419, 611, 99, 867, 355, 739, 227, 995, 483, 531, 19, 787, 275, 659, 147, 915, 403, 595, 83, 851, 339, 723, 211, 979, 467, 563, 51, 819, 307, 691, 179, 947, 435, 627, 115, 883, 371, 755, 243, 11, 499, 267, 523, 139, 779, 395, 651, 75, 907, 331, 587, 203, 843, 459, 715, 43, 971, 299, 555, 171, 811, 427, 683, 107, 939, 363, 619, 235, 875, 491, 747, 539, 27, 795, 283, 667, 155, 923, 411, 603, 91, 859, 347, 731, 219, 987, 475, 571, 59, 827, 315, 699, 187, 955, 443, 635, 123, 891, 379, 763, 251, 7, 507, 263, 519, 135, 775, 391, 647, 71, 903, 327, 583, 199, 839, 455, 711, 39, 967, 295, 551, 167, 807, 423, 679, 103, 935, 359, 615, 231, 871, 487, 743, 23, 999, 279, 535, 151, 791, 407, 663, 87, 919, 343, 599, 215, 855, 471, 727, 55, 983, 311, 567, 183, 823, 439, 695, 119, 951, 375, 631, 247, 887, 503, 759, 527, 15, 783, 271, 655, 143, 911, 399, 591, 79, 847, 335, 719, 207, 975, 463, 559, 47, 815, 303, 687, 175, 943, 431, 623, 111, 879, 367, 751, 239, 31, 495, 287, 543, 159, 799, 415, 671, 95, 927, 351, 607, 223, 863, 479, 735, 63, 991, 319, 575, 191, 831, 447, 703, 127, 959, 383, 639, 255, 895, 511, 767, 514, 2, 770, 258, 642, 130, 898, 386, 578, 66, 834, 322, 706, 194, 962, 450, 546, 34, 802, 290, 674, 162, 930, 418, 610, 98, 866, 354, 738, 226, 994, 482, 530, 18, 786, 274, 658, 146, 914, 402, 594, 82, 850, 338, 722, 210, 978, 466, 562, 50, 818, 306, 690, 178, 946, 434, 626, 114, 882, 370, 754, 242, 10, 498, 266, 522, 138, 778, 394, 650, 74, 906, 330, 586, 202, 842, 458, 714, 42, 970, 298, 554, 170, 810, 426, 682, 106, 938, 362, 618, 234, 874, 490, 746, 538, 26, 794, 282, 666, 154, 922, 410, 602, 90, 858, 346, 730, 218, 986, 474, 570, 58, 826, 314, 698, 186, 954, 442, 634, 122, 890, 378, 762, 250, 6, 506, 262, 518, 134, 774, 390, 646, 70, 902, 326, 582, 198, 838, 454, 710, 38, 966, 294, 550, 166, 806, 422, 678, 102, 934, 358, 614, 230, 870, 486, 742, 22, 998, 278, 534, 150, 790, 406, 662, 86, 918, 342, 598, 214, 854, 470, 726, 54, 982, 310, 566, 182, 822, 438, 694, 118, 950, 374, 630, 246, 886, 502, 758, 526, 14, 782, 270, 654, 142, 910, 398, 590, 78, 846, 334, 718, 206, 974, 462, 558, 46, 814, 302, 686, 174, 942, 430, 622, 110, 878, 366, 750, 238, 30, 494, 286, 542, 158, 798, 414, 670, 94, 926, 350, 606, 222, 862, 478, 734, 62, 990, 318, 574, 190, 830, 446, 702, 126, 958, 382, 638, 254, 894, 510, 766, 516, 4, 772, 260, 644, 132, 900, 388, 580, 68, 836, 324, 708, 196, 964, 452, 548, 36, 804, 292, 676, 164, 932, 420, 612, 100, 868, 356, 740, 228, 996, 484, 532, 20, 788, 276, 660, 148, 916, 404, 596, 84, 852, 340, 724, 212, 980, 468, 564, 52, 820, 308, 692, 180, 948, 436, 628, 116, 884, 372, 756, 244, 12, 500, 268, 524, 140, 780, 396, 652, 76, 908, 332, 588, 204, 844, 460, 716, 44, 972, 300, 556, 172, 812, 428, 684, 108, 940, 364, 620, 236, 876, 492, 748, 540, 28, 796, 284, 668, 156, 924, 412, 604, 92, 860, 348, 732, 220, 988, 476, 572, 60, 828, 316, 700, 188, 956, 444, 636, 124, 892, 380, 764, 252, 8, 508, 264, 520, 136, 776, 392, 648, 72, 904, 328, 584, 200, 840, 456, 712, 40, 968, 296, 552, 168, 808, 424, 680, 104, 936, 360, 616, 232, 872, 488, 744, 24, 1000, 280, 536, 152, 792, 408, 664, 88, 920, 344, 600, 216, 856, 472, 728, 56, 984, 312, 568, 184, 824, 440, 696, 120, 952, 376, 632, 248, 888, 504, 760, 528, 16, 784, 272, 656, 144, 912, 400, 592, 80, 848, 336, 720, 208, 976, 464, 560, 48, 816, 304, 688, 176, 944, 432, 624, 112, 880, 368, 752, 240, 32, 496, 288, 544, 160, 800, 416, 672, 96, 928, 352, 608, 224, 864, 480, 736, 64, 992, 320, 576, 192, 832, 448, 704, 128, 960, 384, 640, 256, 896, 512, 768 |
| **Random 1**  -129, -85, 933, 85, -612, -628, 702, -459, -654, -421, -740, -790, -915, 846, -764, 798, -180, -74, -851, 267, -1, -338, -87, 594, 591, -693, -879, -173, 915, 365, 633, -295, 531, 891, 440, -754, -375, 518, 185, 540, 430, -399, -576, 567, -192, -644, 308, -170, 263, -21, 149, -402, 529, 372, 744, 597, 913, -613, -183, 570, 673, 449, 135, 680, -457, -219, 615, -865, -253, -776, 610, -719, -743, 319, -854, -378, 743, -100, 322, -744, 865, -842, -872, 676, -686, -531, 987, -8, 998, 658, 245, -934, -398, -355, 840, -202, -496, 396, -653, -912, 461, 753, 789, 259, -164, 143, 895, 583, 80, 320, -713, -829, 790, -145, -924, -426, -636, 353, 898, 148, 127, 2, 986, 975, -611, 255, -221, -143, 402, -942, 982, 879, -420, -409, 42, -558, 759, -325, -377, 953, -406, 503, -359, -657, -610, -58, -504, -559, -709, 335, -300, 76, -956, -959, 902, 103, 230, 489, -775, -153, -789, -492, 240, 153, 757, 997, -819, 821, -194, 209, -749, -296, 74, 152, -589, -404, 66, -20, -635, 920, -537, 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856, 427, 134, 454, 20, 859, -486, 964, -49, -90, -211, -760, -904, -374, -156, -843, 675, -678, 194, 510, 424, -990, 827, -720, -663, 600, 420, -785, -592, 984, -634, -568, -117, -227, 691, -928, 728, 603, -571, 988, 317, 393, 543, 793, 792, 271, 211, 575, 584, 513, 517, -569, 963, -685, -353, 473, 31, -84, 801, 839, -795, -25, -631, -140, 93, -622, -351, -72, 944, -702, 302, 952, 128, -778, -725, 934, 441, -314, -985, 824, -691, 678, -560, -861, -336, 412, -463, 716, -70, -639, 460, -932, -575, -724, -114, 710, -941, -302, 290, -62, 313, 345, 3, -412, 324, -403, 426, -767, 471, 438, -885, 690, -835, -975, -989, -53, -207, -385, -666, 775, -632, -745, -36, -818, -692, 487, -337, 938, -668, 312, -450, -748, 679, -29, 719, -900, -683, 843, 10, 336, -423, 930, 573, -139, -59, 616, -706, 519, -123, 916, 197, 918, 661, 809, -976, 739, -323, -328, 260, 367, -550, 797, -715, -204, 364, 899, -601, 969, 124, -18, -597, -89, -911, -946, 141, -781, -154, -473, -210, -752, -358, 463, 885, -197, -396, -357, 407, 439, -771, -80, -15, 414, -832, 429, -645, -370, -895, -573, -738, -704, 561, -759, -45, 418, -935, -251, 737, 4, -878, -48, -397, 526, 524, 374, -730, 901, -909, 168, 244, -957, 736, -304, 394, 29, -391, 724, -846, -369, 425, 391, 834, 684, 236, 84, -996, -439, 945, 677, 61, -386, -410, 297, -676, -981, 447, -280, -228, -240, 116, 552, -607, -255, 854, -534, -458, -739, -133, -987, -594, -699, 35, 238, 289, 91, -245, -877, 360, 534, -593, -344, 560, 805, 566, -217, -677, -216, -899, -3, 131, 662, -24, -758, 795, -982, 608, 126, 104, -669, -199, -555, 706, 646, 841, -563, 818, -971, -384, 381, 409, -382, -343, -329, -893, -78, 627, -825, 294, -499, -726, -787, 144, 9, 607, -947, 630, 876, -813, -565, -171, -774, 778, -400, 923, -863, 537, 181, -543, 296, 872, -483, 958, 459, -548, -427, -547, 436, -32, -773, 638, -868, 431, -223, 491, -887, -467, -448, -541, 626, -373, 229, 908, 281, -542, 466, 100, 480, -856, 928, -948, 782, -362, -478, -349, -248, 939, -961, 720, 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| **Random 2**  774, -339, -728, 53, 714, -201, 810, -751, -247, -168, -244, 724, 781, -413, -46, 340, 39, -259, 853, 278, 785, 679, 352, 967, 583, 10, -717, 254, 143, -265, 226, -250, 867, -47, -373, -179, -987, -633, 330, -143, -866, -196, -763, 568, -694, -656, 656, 324, -498, 916, 190, -446, 578, -795, 197, -529, -135, -607, 789, 796, 915, -863, 493, 528, -541, -125, -767, 835, 786, 256, 38, 7, -958, 808, 284, 812, 251, -57, -371, -353, 90, -504, 507, -431, -487, -1, -682, 608, -841, 358, -165, 685, -757, -871, 106, -478, -418, -110, 105, -40, 487, -435, -645, 831, 494, 297, 562, 530, 921, -450, -31, 208, -766, -674, -734, -918, 165, 693, 854, -256, 797, 674, 573, -828, 580, 624, -61, -398, -699, -965, -17, 767, 368, 960, -639, 739, 432, 940, -294, -97, 85, 139, 452, 850, -351, 192, 819, 415, -300, 8, -644, -759, -782, 124, 629, 152, 132, -237, -580, -150, -359, 419, 538, 255, -976, 36, 743, 309, -616, 727, 904, -753, -101, -83, -837, -606, 312, 927, 760, -257, -381, -612, 129, 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