**Array of 500** :

arr = [58, 412, 812, 974, 777, 827, 852, 339, 578, 987, 155, 27, 557, 308, 400, 739, 505, 954,  
 742, 974, 930, 260, 716, 778, 736, 768, 338, 148, 825, 675, 57, 510, 785, 417, 179, 554,  
 149, 23, 991, 253, 136, 231, 532, 277, 11, 930, 136, 685, 277, 624, 175, 702, 197, 216,  
 914, 884, 114, 940, 923, 389, 269, 730, 187, 921, 855, 117, 26, 338, 377, 98, 675, 179,  
 941, 93, 165, 419, 926, 682, 735, 895, 418, 764, 179, 773, 64, 670, 591, 500, 63, 719,  
 914, 101, 253, 119, 677, 776, 999, 736, 324, 690, 341, 503, 684, 236, 747, 571, 336, 315,  
 373, 708, 819, 881, 133, 102, 983, 561, 693, 958, 183, 11, 637, 195, 65, 652, 895, 80,  
 649, 469, 797, 992, 979, 338, 469, 106, 922, 829, 824, 273, 455, 109, 113, 742, 540, 807,  
 82, 816, 426, 862, 104, 26, 751, 240, 380, 185, 437, 78, 300, 515, 812, 784, 772, 205,  
 208, 720, 398, 383, 155, 141, 413, 598, 396, 807, 290, 967, 102, 190, 380, 806, 421, 188,  
 493, 457, 519, 502, 826, 185, 471, 419, 959, 152, 651, 125, 973, 666, 442, 505, 499, 379,  
 686, 427]

**Array of 1000** :

[769, 966, 240, 526, 698, 490, 322, 105, 197, 30, 913, 734, 426, 469, 301, 746, 509, 744, 26, 613, 79, 595, 543, 74, 925, 493, 89, 440, 137, 852, 756, 554, 175, 662, 680, 319, 928, 956, 501, 237, 94, 941, 317, 753, 822, 835, 215, 451, 50, 682, 11, 201, 329, 589, 703, 1, 536, 780, 936, 22, 180, 515, 133, 527, 508, 700, 560, 671, 382, 769, 65, 267, 989, 324, 550, 688, 265, 701, 557, 621, 521, 355, 595, 643, 396, 773, 936, 826, 865, 247, 535, 324, 612, 838, 491, 459, 157, 615, 420, 198, 270, 118, 440, 356, 213, 875, 7, 356, 131, 114, 469, 981, 891, 521, 19, 681, 391, 999, 981, 291, 838, 492, 796, 687, 830, 51, 89, 18, 562, 485, 282, 977, 134, 976, 348, 824, 974, 285, 815, 334, 562, 771, 941, 762, 976, 81, 266, 440, 477, 459, 58, 518, 971, 331, 801, 126, 186, 413, 76, 98, 34, 49, 259, 138, 216, 623, 814, 86, 491, 742, 374, 369, 799, 967, 210, 176, 343, 420, 122, 100, 646, 939, 605, 148, 146, 917, 51, 163, 894, 685, 519, 751, 845, 529, 125, 816, 272, 101, 40, 884, 473, 211, 73, 27, 865, 409, 922, 380, 678, 388, 88, 605, 419, 182, 143, 614, 870, 532, 469, 746, 429, 257, 716, 809, 344, 560, 69, 186, 846, 794, 843, 755, 320, 736, 981, 366, 863, 360, 76, 637, 887, 671, 842, 789, 583, 817, 949, 789, 678, 779, 744, 973, 248, 502, 839, 140, 728, 173, 275, 444, 837, 226, 729, 802, 787, 404, 142, 469, 916, 526, 62, 956, 349, 993, 921, 100, 616, 647, 286, 748, 323, 327, 205, 555, 364, 416, 153, 422, 520, 520, 946, 642, 76, 182, 817, 842, 616, 343, 610, 566, 35, 998, 81, 49, 763, 850, 812, 10, 769, 948, 244, 924, 957, 254, 309, 646, 203, 402, 696, 422, 700, 717, 987, 11, 544, 843, 982, 949, 386, 244, 208, 140, 232, 985, 738, 434, 457, 820, 504, 750, 301, 490, 808, 421, 673, 385, 860, 847, 816, 543, 688, 98, 265, 812, 742, 737, 478, 956, 159, 95, 985, 59, 365, 563, 412, 976, 890, 704, 443, 191, 600, 934, 943, 722, 816, 175, 908, 812, 217, 44, 994, 809, 968, 240, 954, 474, 327, 708, 819, 591, 575, 150, 707, 769, 585, 949, 774, 475, 202, 838, 942, 292, 217, 645, 505, 748, 665, 134, 754, 912, 785, 922, 538, 492, 948, 588, 543, 702, 12, 364, 432, 672, 278, 6, 305, 941, 492, 900, 228, 773, 368, 597, 212, 511, 401, 447, 247, 456, 883, 751, 365, 957, 251, 299, 218, 514, 927, 83, 698, 738, 433, 845, 891, 573, 653, 556, 577, 141, 762, 568, 342, 553, 845, 324, 601, 49, 677, 661, 491, 102, 235, 565, 248, 593, 163, 30, 402, 206, 491, 34, 849, 118, 47, 563, 417, 930, 757, 192, 9, 581, 122, 300, 227, 721, 616, 286, 812, 210, 796, 570, 76, 338, 792, 661, 746, 410, 745, 161, 914, 119, 829, 87, 346, 556, 458, 489, 806, 274, 331, 618, 654, 570, 338, 350, 223, 247, 330, 510, 647, 691, 69, 268, 292, 810, 935, 302, 782, 984, 671, 106, 22, 587, 295, 84, 286, 829, 31, 756, 131, 352, 193, 42, 277, 76, 887, 644, 607, 124, 131, 745, 985, 699, 627, 501, 963, 22, 187, 807, 950, 158, 404, 797, 108, 833, 500, 578, 458, 905, 144, 187, 19, 284, 780, 84, 793, 962, 994, 785, 352, 996, 430, 134, 305, 770, 249, 380, 547, 666, 507, 992, 452, 733, 270, 803, 45, 154, 162, 96, 929, 670, 884, 887, 347, 460, 502, 267, 457, 672, 567, 838, 933, 870, 774, 357, 630, 747, 764, 434, 827, 583, 169, 141, 609, 973, 502, 372, 454, 26, 294, 944, 97, 550, 296, 895, 669, 999, 808, 994, 961, 45, 565, 20, 916, 144, 835, 105, 52, 549, 81, 731, 158, 237, 258, 246, 977, 943, 401, 606, 554, 118, 214, 452, 28, 203, 577, 297, 54, 103, 176, 173, 112, 64, 990, 360, 464, 927, 129, 550, 801, 912, 159, 716, 738, 636, 113, 366, 83, 569, 734, 277, 583, 798, 113, 189, 533, 49, 69, 68, 511, 484, 716, 262, 652, 981, 960, 946, 9, 845, 946, 759, 456, 797, 199, 333, 434, 931, 313, 204, 146, 77, 910, 196, 128, 501, 82, 666, 113, 766, 996, 484, 121, 571, 407, 641, 600, 494, 913, 615, 885, 313, 157, 517, 508, 793, 85, 763, 925, 481, 259, 393, 233, 663, 982, 529, 45, 968, 573, 619, 487, 36, 162, 3, 476, 525, 419, 858, 777, 390, 179, 289, 765, 996, 297, 987, 651, 436, 82, 709, 327, 630, 871, 64, 609, 256, 356, 848, 678, 595, 675, 261, 568, 46, 286, 798, 657, 669, 6, 778, 984, 912, 542, 960, 829, 725, 310, 610, 312, 196, 235, 445, 581, 290, 74, 445, 924, 557, 680, 383, 834, 37, 484, 371, 553, 846, 38, 199, 585, 149, 254, 829, 197, 109, 100, 576, 483, 230, 283, 16, 24, 711, 781, 488, 363, 365, 861, 764, 478, 729, 187, 25, 754, 186, 994, 328, 782, 490, 818, 41, 951, 296, 300, 720, 924, 108, 96, 359, 456, 211, 502, 824, 770, 122, 491, 909, 787, 462, 49, 177, 210, 637, 740, 544, 60, 472, 49, 535, 53, 571, 885, 69, 75, 215, 470, 755, 370, 843, 190, 294, 843, 389, 601, 999, 132, 931, 497, 331, 874, 762, 899, 851, 6, 252, 995, 40, 578, 78, 393, 160, 402, 817, 780, 773, 360, 313, 111, 125, 240, 454, 825, 467, 12, 610, 319, 172, 786, 597, 10, 670, 743, 827, 778, 599, 446, 998, 462, 339, 874, 626, 528, 154, 738, 653, 552, 395, 161, 408, 963, 695, 697, 382, 351, 76, 288, 289, 672, 851, 511, 908, 26, 104, 238, 80, 850, 924, 227, 676, 172, 265, 531, 33, 511, 602, 92, 820, 428, 543, 175, 383, 972, 287]

**Array of 2000** :

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

**Array of 5000** :

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