insertion sort

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5.211011739447713e-06 2 [331, 398]

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4.7539942897856236e-06 2 [836, 888]

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6.152986316010356e-06 4 [231, 238, 832, 927]

6.080983439460397e-06 4 [385, 448, 548, 656]

6.9150119088590145e-06 4 [143, 673, 763, 943]

6.096001015976071e-06 4 [10, 203, 314, 435]

2.226099604740739e-05 16 [235, 313, 317, 498, 506, 709, 729, 756, 769, 812, 840, 851, 879, 948, 983, 992]

1.9694998627528548e-05 16 [73, 95, 121, 300, 318, 356, 372, 420, 449, 461, 520, 671, 674, 769, 905, 983]

2.7816015062853694e-05 16 [55, 146, 256, 388, 400, 448, 478, 498, 560, 785, 822, 851, 871, 891, 909, 920]

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2.021499676629901e-05 16 [43, 82, 244, 323, 353, 388, 425, 434, 448, 494, 514, 569, 589, 663, 739, 869]

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0.003637766989413649 256 [3, 9, 16, 19, 21, 24, 26, 28, 31, 33, 40, 45, 46, 48, 57, 65, 66, 68, 72, 78, 88, 94, 96, 97, 99, 99, 103, 107, 108, 108, 116, 121, 121, 122, 124, 125, 127, 131, 140, 142, 145, 151, 151, 151, 153, 155, 156, 157, 159, 160, 176, 176, 178, 185, 187, 203, 207, 209, 213, 222, 224, 224, 228, 233, 236, 237, 261, 268, 275, 280, 286, 290, 291, 294, 299, 300, 302, 305, 321, 325, 332, 341, 342, 342, 344, 352, 353, 361, 361, 363, 365, 365, 370, 371, 371, 377, 385, 393, 396, 397, 398, 402, 410, 427, 431, 438, 439, 448, 449, 449, 457, 465, 475, 475, 477, 479, 485, 485, 485, 492, 494, 496, 506, 508, 515, 524, 526, 530, 531, 532, 535, 539, 544, 547, 550, 551, 558, 558, 568, 570, 577, 581, 581, 586, 590, 593, 594, 596, 602, 610, 612, 621, 628, 628, 631, 632, 636, 638, 645, 653, 666, 667, 671, 674, 682, 683, 685, 687, 688, 688, 692, 692, 693, 696, 711, 714, 715, 717, 720, 736, 737, 739, 745, 747, 748, 749, 750, 757, 759, 761, 765, 765, 788, 790, 792, 793, 796, 799, 800, 812, 819, 823, 824, 826, 830, 834, 834, 837, 838, 842, 846, 857, 864, 867, 869, 869, 876, 878, 879, 882, 883, 884, 885, 888, 889, 894, 897, 897, 898, 902, 911, 917, 919, 921, 923, 923, 929, 930, 933, 934, 948, 958, 964, 967, 967, 969, 975, 976, 977, 982, 984, 985, 988, 991, 991, 999]

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8.086994057521224e-06 4 [575, 912, 979, 993]

2.24430114030838e-05 16 [29, 76, 145, 249, 326, 333, 400, 456, 520, 553, 687, 807, 833, 876, 938, 976]

2.1535000996664166e-05 16 [5, 43, 194, 318, 422, 461, 563, 604, 623, 677, 685, 743, 898, 913, 915, 924]

2.330500865355134e-05 16 [42, 61, 70, 186, 197, 264, 275, 290, 341, 444, 479, 769, 785, 808, 960, 969]

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2.1938001736998558e-05 16 [35, 50, 139, 158, 201, 280, 358, 466, 479, 622, 626, 689, 736, 788, 951, 992]

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1.4877994544804096e-05 2 [362, 919]

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3.10600153170526e-05 4 [476, 665, 745, 843]

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1.4864985132589936e-05 4 [306, 341, 438, 653]

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5.286899977363646e-05 16 [25, 139, 177, 309, 349, 383, 443, 475, 543, 637, 697, 790, 795, 895, 976, 986]

7.94160005170852e-05 16 [24, 59, 195, 235, 287, 302, 343, 424, 464, 492, 554, 571, 720, 835, 859, 954]

0.0007667379977647215 256 [3, 5, 20, 21, 24, 25, 31, 32, 33, 37, 37, 41, 41, 42, 53, 61, 62, 75, 76, 76, 87, 88, 92, 92, 100, 102, 107, 113, 115, 117, 123, 124, 128, 132, 136, 147, 147, 153, 159, 160, 162, 167, 175, 178, 179, 179, 179, 184, 184, 185, 185, 189, 190, 193, 193, 201, 206, 232, 238, 239, 243, 243, 247, 252, 254, 256, 257, 263, 265, 265, 268, 270, 271, 272, 272, 273, 275, 275, 277, 282, 283, 291, 292, 298, 299, 301, 305, 307, 307, 310, 312, 314, 320, 324, 326, 329, 335, 337, 347, 353, 355, 364, 372, 374, 378, 384, 384, 390, 393, 396, 396, 397, 402, 403, 408, 413, 414, 420, 420, 425, 427, 446, 459, 468, 475, 476, 482, 488, 489, 511, 523, 524, 534, 534, 535, 538, 550, 551, 556, 564, 567, 568, 572, 573, 580, 583, 585, 588, 593, 598, 601, 604, 609, 612, 620, 620, 623, 623, 625, 625, 625, 628, 634, 638, 645, 646, 648, 650, 651, 653, 658, 663, 663, 669, 676, 679, 682, 688, 690, 693, 693, 700, 700, 700, 701, 702, 715, 720, 727, 727, 729, 732, 733, 734, 735, 738, 739, 743, 747, 761, 768, 770, 772, 782, 800, 801, 801, 810, 812, 813, 817, 822, 824, 825, 829, 830, 836, 840, 845, 849, 858, 868, 873, 877, 877, 879, 884, 885, 886, 888, 897, 898, 898, 899, 900, 900, 901, 901, 911, 911, 913, 925, 935, 952, 966, 967, 970, 974, 974, 976, 981, 982, 983, 997, 997, 998]

0.0007617920055054128 256 [4, 8, 13, 21, 21, 23, 25, 25, 26, 33, 34, 37, 41, 43, 47, 47, 48, 55, 76, 77, 79, 84, 87, 87, 97, 100, 101, 102, 107, 110, 111, 115, 118, 119, 137, 142, 143, 149, 160, 175, 176, 179, 180, 182, 184, 188, 193, 194, 196, 199, 200, 203, 206, 207, 207, 208, 214, 225, 232, 232, 234, 238, 241, 254, 259, 264, 270, 276, 283, 293, 295, 301, 307, 310, 312, 316, 316, 326, 326, 328, 328, 341, 343, 343, 343, 345, 345, 348, 352, 356, 363, 363, 364, 364, 366, 373, 377, 382, 384, 400, 405, 406, 406, 410, 412, 413, 417, 421, 423, 431, 437, 437, 442, 443, 444, 445, 449, 455, 465, 465, 467, 469, 473, 478, 480, 482, 487, 493, 496, 506, 510, 513, 515, 523, 523, 524, 526, 526, 529, 531, 532, 536, 538, 542, 542, 552, 554, 555, 559, 561, 564, 565, 571, 573, 580, 580, 585, 587, 592, 606, 607, 611, 613, 616, 617, 620, 623, 623, 631, 633, 635, 637, 638, 642, 643, 644, 649, 650, 656, 663, 670, 671, 681, 682, 689, 704, 708, 711, 716, 720, 728, 732, 734, 739, 741, 745, 754, 761, 763, 773, 776, 780, 781, 782, 785, 791, 794, 801, 805, 809, 815, 816, 818, 819, 822, 824, 826, 826, 827, 829, 830, 835, 835, 841, 847, 856, 867, 874, 875, 877, 882, 891, 892, 893, 897, 906, 915, 926, 930, 935, 941, 941, 949, 951, 953, 961, 965, 966, 970, 971, 980, 980, 982, 987, 987, 992]

0.0012118919985368848 256 [1, 4, 14, 16, 16, 30, 31, 41, 50, 53, 53, 58, 58, 63, 68, 72, 72, 73, 74, 78, 81, 83, 84, 89, 94, 97, 97, 101, 103, 103, 103, 105, 108, 109, 110, 119, 121, 123, 124, 125, 133, 135, 139, 149, 154, 165, 167, 168, 191, 193, 199, 209, 209, 217, 219, 221, 222, 222, 236, 242, 244, 247, 248, 248, 263, 266, 269, 271, 274, 276, 276, 282, 284, 284, 292, 295, 298, 301, 305, 310, 310, 316, 318, 339, 342, 344, 344, 348, 353, 358, 362, 363, 364, 365, 370, 370, 373, 373, 374, 381, 382, 382, 383, 386, 390, 391, 391, 393, 394, 394, 399, 407, 408, 422, 423, 423, 427, 427, 428, 429, 430, 432, 433, 436, 437, 438, 445, 449, 449, 455, 461, 461, 463, 475, 479, 483, 490, 493, 494, 495, 496, 498, 507, 511, 518, 520, 522, 533, 551, 553, 561, 564, 565, 567, 570, 570, 573, 574, 576, 578, 586, 586, 586, 598, 600, 600, 602, 603, 616, 617, 626, 628, 628, 641, 641, 644, 651, 653, 657, 663, 668, 671, 684, 685, 685, 686, 689, 696, 712, 713, 714, 723, 724, 726, 729, 733, 737, 743, 753, 754, 758, 765, 779, 789, 789, 790, 799, 802, 807, 808, 810, 812, 812, 813, 816, 817, 821, 822, 827, 836, 839, 845, 851, 852, 852, 860, 866, 867, 879, 881, 886, 891, 892, 899, 899, 901, 906, 906, 909, 915, 923, 927, 934, 934, 941, 941, 948, 962, 964, 972, 975, 978, 986, 990, 990, 1000]

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0.0007574470073450357 256 [2, 4, 7, 11, 15, 23, 27, 29, 31, 32, 34, 39, 51, 53, 56, 59, 60, 65, 76, 78, 79, 82, 87, 88, 91, 98, 102, 107, 113, 114, 114, 121, 123, 125, 129, 129, 131, 137, 144, 146, 155, 163, 172, 175, 176, 177, 177, 180, 181, 181, 185, 185, 194, 196, 200, 202, 204, 206, 209, 215, 223, 224, 226, 235, 239, 239, 250, 251, 263, 274, 275, 280, 281, 281, 286, 291, 296, 298, 300, 311, 313, 315, 319, 323, 324, 327, 327, 331, 333, 343, 356, 358, 363, 364, 366, 371, 379, 381, 392, 394, 396, 399, 403, 412, 412, 413, 416, 419, 424, 436, 437, 437, 438, 442, 444, 447, 448, 450, 455, 456, 456, 459, 464, 464, 467, 479, 493, 505, 510, 513, 521, 522, 524, 537, 540, 546, 548, 551, 556, 562, 563, 566, 568, 570, 574, 575, 576, 581, 582, 585, 587, 589, 590, 593, 596, 599, 600, 600, 601, 605, 607, 608, 610, 613, 613, 614, 616, 617, 624, 625, 629, 629, 631, 641, 646, 648, 649, 653, 663, 667, 672, 678, 678, 683, 683, 688, 690, 697, 704, 705, 709, 713, 713, 714, 720, 728, 728, 730, 731, 741, 746, 750, 751, 755, 756, 762, 771, 776, 804, 805, 809, 817, 818, 819, 821, 822, 823, 830, 832, 840, 844, 850, 854, 859, 860, 865, 867, 870, 871, 871, 880, 890, 896, 899, 901, 910, 910, 912, 917, 922, 925, 928, 941, 945, 953, 959, 960, 979, 979, 982, 984, 986, 986, 988, 990, 996]

Shell sorts

Normal:

7.591996109113097e-06 2 [30, 734]

4.803005140274763e-06 2 [27, 380]

4.4539920054376125e-06 2 [925, 968]

4.143017577007413e-06 2 [28, 133]

4.95798303745687e-06 2 [672, 950]

6.541988113895059e-06 4 [343, 489, 517, 694]

6.55400799587369e-06 4 [318, 418, 527, 607]

7.012014975771308e-06 4 [51, 262, 407, 527]

6.893009413033724e-06 4 [16, 30, 502, 649]

6.9029920268803835e-06 4 [136, 192, 509, 680]

1.9978993805125356e-05 16 [17, 49, 64, 69, 168, 195, 254, 372, 388, 565, 643, 653, 727, 749, 855, 950]

1.738898572511971e-05 16 [31, 113, 128, 179, 200, 205, 406, 406, 418, 540, 555, 697, 709, 848, 885, 970]

1.9316008547320962e-05 16 [90, 191, 196, 242, 308, 347, 391, 478, 514, 575, 624, 635, 707, 851, 892, 979]

2.0042003598064184e-05 16 [33, 127, 277, 288, 480, 519, 578, 583, 598, 632, 738, 741, 742, 755, 845, 919]

1.689099008217454e-05 16 [128, 363, 373, 383, 412, 413, 415, 498, 521, 528, 702, 723, 743, 764, 871, 948]

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0.0005764769739471376 256 [4, 21, 25, 34, 36, 36, 36, 41, 57, 59, 63, 74, 77, 78, 81, 84, 87, 88, 100, 100, 115, 117, 124, 130, 130, 131, 132, 132, 135, 144, 145, 146, 152, 161, 162, 173, 176, 179, 183, 187, 203, 208, 214, 224, 227, 236, 239, 241, 251, 251, 255, 259, 261, 265, 265, 266, 271, 274, 278, 281, 293, 301, 306, 309, 315, 317, 324, 326, 328, 328, 345, 345, 348, 353, 354, 362, 364, 374, 377, 379, 388, 394, 396, 401, 402, 404, 405, 412, 416, 422, 434, 436, 437, 444, 445, 449, 453, 455, 461, 465, 475, 475, 478, 479, 484, 485, 492, 493, 500, 500, 500, 502, 504, 511, 512, 525, 527, 531, 543, 545, 556, 556, 564, 565, 570, 571, 574, 575, 576, 585, 586, 587, 588, 589, 590, 591, 592, 596, 597, 602, 611, 613, 615, 621, 622, 629, 644, 644, 646, 647, 648, 652, 653, 653, 656, 659, 669, 672, 674, 678, 680, 681, 682, 684, 684, 689, 692, 701, 702, 702, 704, 706, 707, 711, 719, 726, 741, 746, 754, 755, 757, 759, 764, 765, 766, 767, 774, 779, 788, 790, 790, 800, 803, 803, 807, 814, 816, 817, 817, 817, 817, 821, 829, 829, 831, 832, 841, 843, 848, 852, 856, 859, 860, 861, 863, 868, 870, 870, 876, 893, 894, 895, 895, 896, 897, 904, 904, 907, 911, 914, 915, 920, 923, 923, 923, 928, 928, 942, 943, 947, 949, 960, 965, 966, 968, 972, 972, 974, 975, 983, 984, 986, 989, 990, 997, 1000]

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0.0006549730023834854 256 [2, 7, 8, 16, 20, 24, 25, 25, 29, 30, 33, 36, 42, 43, 44, 45, 55, 55, 55, 56, 57, 63, 64, 65, 66, 68, 72, 77, 84, 93, 99, 99, 109, 113, 117, 123, 125, 126, 134, 138, 144, 149, 151, 153, 155, 162, 174, 175, 179, 180, 181, 191, 201, 203, 210, 218, 228, 233, 235, 236, 236, 241, 244, 247, 253, 255, 259, 263, 263, 266, 268, 268, 272, 276, 276, 278, 284, 285, 290, 293, 293, 299, 300, 313, 313, 314, 316, 319, 322, 330, 332, 332, 340, 347, 348, 351, 352, 353, 354, 359, 366, 367, 371, 379, 393, 400, 406, 407, 407, 410, 411, 416, 420, 420, 431, 431, 439, 445, 451, 453, 454, 457, 465, 471, 472, 477, 477, 480, 482, 485, 493, 498, 499, 500, 516, 521, 524, 527, 528, 535, 535, 546, 546, 556, 567, 575, 580, 583, 585, 588, 593, 599, 612, 613, 621, 622, 623, 628, 634, 638, 638, 652, 657, 658, 658, 661, 664, 667, 669, 671, 677, 684, 690, 693, 697, 700, 701, 702, 704, 713, 716, 716, 722, 723, 726, 730, 730, 736, 737, 738, 739, 744, 747, 755, 759, 767, 772, 774, 776, 782, 784, 786, 787, 787, 787, 789, 791, 793, 801, 804, 806, 806, 809, 809, 814, 815, 824, 828, 828, 832, 840, 853, 856, 857, 857, 860, 860, 864, 871, 883, 885, 885, 889, 901, 902, 915, 917, 921, 929, 934, 945, 947, 953, 956, 961, 963, 970, 973, 974, 979, 983, 985, 991, 996, 999, 1000]