Hill climbing and Simulated Annealing report

	Hill climbing shortest distance	Hill climbing shortest route	Simulated annealing shortest distance	Simulated annealing shortest route
Tiny	15.35	[2, 3, 0, 4, 9, 6, 7, 5, 1, 8]	12.52	[1, 5, 8, 2, 7, 6, 9, 3, 0, 4]
Small	154.48	[14, 18, 26, 19, 13, 28, 11, 27, 15, 8, 21, 16, 17, 1, 2, 5, 23, 10, 0, 4, 20, 24, 7, 25, 3, 29, 6, 9, 22, 12]	75.15	[27, 10, 2, 5, 18, 23, 26, 1, 14, 11, 12, 21, 16, 8, 17, 25, 7, 9, 6, 0, 13, 19, 20, 4, 28, 29, 22, 3, 15, 24]
Medium	31.31	[86, 29, 96, 91, 49, 4, 6, 13, 70, 15, 35, 2, 87, 64, 95, 37, 44, 34, 24, 48, 83, 90, 0, 50, 31, 32, 23, 79, 19, 21, 75, 78, 68, 74, 82, 33, 42, 3, 59, 9, 80, 16, 11, 8, 89, 57, 71, 7, 62, 20, 36, 84, 10, 38, 81, 92, 12, 46, 54, 88, 63, 17, 61, 27, 69, 53, 77, 76, 65, 45, 67, 73, 14, 52, 60, 30, 55, 43, 1, 5, 58, 85, 99, 47, 28, 66, 98, 56, 40, 25, 26, 94, 97, 41, 93, 39, 72, 18, 51, 22]	26.79	[33, 83, 5, 11, 79, 75, 71, 90, 52, 0, 85, 87, 91, 34, 99, 27, 60, 63, 32, 89, 31, 98, 66, 19, 54, 36, 47, 95, 53, 77, 67, 93, 72, 96, 26, 81, 92, 37, 42, 49, 10, 61, 40, 70, 78, 15, 76, 9, 68, 43, 1, 46, 29, 41, 38, 62, 3, 86, 39, 51, 22, 73, 8, 35, 80, 17, 14, 65, 25, 59, 44, 84, 18, 20, 6, 7, 56, 48, 88, 12, 55, 2, 64, 23, 28, 24, 30, 50, 21, 97, 69, 45, 58, 94, 57, 16, 82, 74, 13, 4]

1	407.00	[107 647 17	420 50	1010 (50 000 606
Large	427.98	[107, 647, 17, 310, 612, 308,	430.59	[812, 658, 803, 626, 716, 190, 608, 107, 535,
		356, 419, 501,		260, 918, 141, 9, 231,
		299, 767, 794,		871, 311, 685, 65, 604,
		37, 207, 340,		403, 118, 553, 770, 236,
		384, 591, 71,		432, 339, 215, 735, 473,
		540, 586, 581,		240, 521, 602, 790, 749,
		134, 343, 38,		794, 810, 453, 977, 792,
		85, 950, 70,		900, 944, 181, 692, 0,
		267, 568, 964,		128, 44, 634, 569, 625,
		221, 8, 370,		266, 38, 853, 390, 280,
		555, 383, 846,		540, 209, 501, 285, 982,
		696, 584, 727,		176, 825, 244, 336, 724,
		136, 235, 345,		410, 908, 786, 732, 741,
		544, 14, 925,		418, 284, 938, 404, 984,
		16, 364, 481,		814, 989, 981, 969, 467,
		420, 600, 204,		328, 347, 402, 967, 114,
		701, 765, 35,		872, 35, 26, 300, 652,
		365, 706, 869, 124, 875, 548,		426, 526, 849, 639, 887,
		124, 875, 548, 199, 910, 613,		406, 510, 682, 271, 512, 439, 498, 115, 655, 106,
		381, 412, 819,		832, 180, 75, 528, 495,
		61, 353, 572,		50, 149, 509, 416, 219,
		465, 688, 651,		562, 341, 41, 415, 851,
		758, 237, 313,		597, 276, 985, 630, 592,
		889, 143, 705,		242, 550, 700, 689, 606,
		991, 635, 714,		56, 808, 605, 359, 978,
		957, 69, 259,		459, 162, 734, 321, 638,
		933, 891, 98,		809, 699, 955, 6, 474,
		493, 4, 416,		261, 234, 157, 503, 928,
		460, 522, 80,		401, 409, 152, 396, 854,
		817, 195, 839,		148, 476, 857, 757, 136,
		803, 795, 186,		292, 358, 948, 582, 483,
		539, 215, 943,		728, 546, 631, 874, 293,
		260, 808, 471, 774, 344, 119,		588, 795, 490, 131, 335, 204, 380, 330, 777, 272,
		664, 920, 47,		286, 39, 479, 326, 986,
		512, 257, 463,		187, 256, 241, 144, 565,
		369, 722, 254,		889, 965, 898, 703, 171,
		495, 543, 981,		798, 970, 899, 413, 58,
		573, 918, 281,		959, 5, 376, 632, 974,
		276, 346, 518,		447, 489, 670, 310, 622,
		137, 450, 745,		996, 527, 614, 590, 314,
		513, 963, 153,		673, 366, 159, 684, 367,
		583, 424, 440,		931, 675, 89, 34, 618,
		386, 890, 598,		771, 802, 400, 105, 518,
		67, 131, 464,		492, 243, 522, 55, 913,
		161, 779, 858,		129, 574, 222, 454, 629, 350, 249, 31, 438, 135,
		820, 141, 147, 311, 121, 677,		52, 541, 468, 372, 348,
		324, 498, 873,		754, 929, 27, 230, 392,
		630, 292, 42,		843, 763, 11, 645, 711,
		508, 797, 939,		208, 262, 232, 67, 925,
		333, 804, 529,		719, 238, 779, 388, 287,
		25, 633, 571,		514, 1, 211, 82, 344,
		75, 982, 534,		188, 30, 487, 836, 197,
		426, 66, 931,		924, 437, 397, 317, 775,
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240 621 015	000 17 170 600 006
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556, 721, 347,	654, 147, 972, 733, 307,
194, 425, 200,	57, 844, 589, 661, 289,
786, 977, 842,	963, 788, 879, 927, 225,
602, 979, 261,	833, 86, 183, 880, 355,
436, 79, 48,	558, 161, 203, 782, 715,
545, 467, 144,	441, 797, 642, 91, 894,
658, 216, 927,	112, 422, 99, 338, 593,
601, 718, 607,	513, 511, 547, 722, 92,
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414, 596, 256,	624, 389, 737, 744, 856,
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885, 135, 26,	304, 442, 281, 690, 573,
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729, 674, 271,	122, 420, 881, 308, 773,
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936, 13, 759,	47, 273, 466, 4, 766,
175, 510, 563,	643, 395, 919, 12, 693,
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547, 676, 219,	220, 301, 83, 577, 768,
434, 894, 525,	671, 127, 683, 327, 796,
528, 230, 941,	973, 155, 864, 408, 305,
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316, 448, 919,	867, 709, 949, 865, 705,
357, 269, 58,	448, 678, 922, 378, 391,
987, 279, 218,	615, 324, 507, 557, 221,
935, 93, 341,	831, 430, 529, 93, 461,
570, 83, 6, 284,	826, 610, 15, 662, 364,
523, 965, 118,	399, 933, 482, 957, 368,
999, 720, 726,	294, 362, 914, 316, 902,
762, 713, 639,	110, 54, 248, 191, 666,
18, 90, 984, 82,	49, 837, 270, 542, 997,
609, 542, 103,	64, 886, 745, 18, 761,
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949, 168, 778,	940, 915, 343, 555, 323,
497, 592, 456,	564, 123, 462, 566, 980,
112, 763, 995,	365, 954, 568, 216, 612,
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355, 368, 2,	138, 576, 302, 427, 119,
110, 855, 145,	199, 846, 660, 583, 911,
810, 818, 102,	534, 357, 609, 398, 506,
603, 681, 491,	746, 824, 61, 227, 84,
479, 408, 684,	907, 976, 201, 698, 450,
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402, 899, 376,	16, 936, 855, 764, 125,
388, 932, 777,	677, 470, 669, 819, 192,
807, 700, 170,	315, 79, 296, 452, 953,
585, 43, 532,	858, 708, 868, 950, 484,
337, 332, 923,	676, 259, 414, 687, 702,
293, 162, 248,	668, 595, 33, 158, 387,
672, 291, 472,	903, 477, 100, 267, 198,
265, 930, 784,	570, 623, 852, 834, 760,

181, 29, 446, 1,	393, 97, 884, 451, 707,
648, 874, 980,	926, 587, 274, 508, 179,
129, 879, 781,	424, 816, 731, 750, 916,
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220, 321, 850,	533, 591, 549, 405, 939,
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458, 92, 632,	94, 641, 912, 275, 621,
31, 851, 960,	815, 23, 103, 961, 520,
773, 23, 527,	456, 193, 375, 246, 575,
576, 503, 775,	377, 635, 821, 559, 185,
445, 618, 788,	934, 278, 8, 758, 968,
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169, 217, 901,	251, 665, 828, 458, 701,
605, 924, 741,	428, 475, 156, 142, 435,
192, 243, 728,	351, 175, 710, 102, 457,
359, 180, 244,	132, 379, 194, 811, 7,
761, 537, 642,	247, 279, 525, 543, 210,
127, 832, 646,	839, 941, 354, 706, 74,
880, 689, 191,	239, 445, 539, 920, 88,
289, 838, 507,	956, 2, 124, 505, 647,
354, 152, 470,	917, 736, 353, 691, 860,
560, 776, 955,	444, 755, 885, 960, 168,
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662, 749, 634,	628, 263, 81, 804, 696,
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940, 926, 687,	945, 291, 748, 958, 383,
307, 50, 263,	373, 717, 800, 331, 983,
896, 655, 206,	130, 226, 77, 488, 937,
21, 157, 502,	962, 877, 784, 776, 947,
233, 277, 644,	667, 551, 370, 265, 616,
447, 238, 641,	72, 548, 897, 560, 329,
594, 431, 222,	46, 121, 904, 799, 255,
760, 406, 864,	419, 859, 109, 78, 935,
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866, 380, 27,	213, 189, 290, 502, 838,
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693, 978, 423,	822, 519, 174, 150, 563,
710, 442, 945,	460, 36, 87, 807, 727,
373, 435, 526,	585, 245, 523, 966, 611,
0, 15, 961, 654,	500, 90, 496, 184, 429,
146, 904, 557,	747, 411, 785, 40, 930,
921, 154, 409,	417, 258, 169, 385, 594,
905, 535, 432,	425, 516, 252, 613, 943,
954, 692, 663,	32, 596, 167, 178, 620,
105, 40, 732,	70, 66, 882, 895, 283,
223, 478, 772,	334, 173, 659, 196, 257,
1	

	178, 273, 247,
	198, 739, 661,
	549, 515, 972,
	63, 487, 604,
	675, 421, 49,
	975, 715, 108,
	352, 382, 19,
	391, 417, 494,
	358, 39, 697,
	91, 884, 533,
	622, 84, 30,
	785, 488, 258,
	801, 184, 86,
	407, 852, 59,
	575, 645, 177,
	627, 379, 473,
	909, 840, 360,
	799, 232, 208,
	868, 327, 443,
	938, 922, 816,
	138, 792, 183,
	339, 694, 837,
	393, 521, 81,
	617, 731, 929,
	398, 653, 88,
	791, 461, 211,
	297, 752, 616,
	973, 986, 707,
	312, 898, 328,
	296, 626, 193,
	403, 757, 252,
	486, 132, 953,
	451, 853, 793,
	959, 830, 597,
	441, 241, 172,
	908, 678, 737,
	158, 872, 150,
	9, 657, 751,
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	877, 770, 559,
	753, 825, 185,
	389, 459, 342,
1	484, 755, 331,
1	163, 282, 631,
1	
1	670, 876, 660,
	878, 865, 120,
	246, 593, 270,
1	
1	578, 719, 362,
1	624, 629, 811,
	998, 95, 227,
	239, 673, 226,
	374, 699, 330,
1	24, 317, 746,
1	
	295, 255, 164,
	870, 951, 506,
1	531, 812, 599,
1	
	11, 44, 160, 32,

907, 514, 517,	
620, 712, 439,	
550, 828, 640,	
595, 142, 867,	
189, 106, 205,	
140, 683, 554,	
608, 159, 52,	
469, 669, 969,	
319, 392, 78,	
813, 404, 309,	
990, 268, 182,	
477, 245, 623,	
562, 886, 187,	
280, 390, 552,	
397, 444, 668,	
449, 250, 824,	
680, 913, 480,	
671, 911, 476,	
814, 917, 422,	
895, 396, 937,	
97, 274, 833,	
966, 500, 764,	
983, 744, 348,	
787, 796, 854,	
716, 111, 659,	
315, 944, 652,	
455, 831, 305,	
351, 57, 56,	
400, 887, 401,	
375, 278, 46,	
511, 499, 847,	
489, 462, 394,	
228, 754, 89,	
638, 769, 428,	
724, 196, 789,	
72, 519, 756,	
301, 848, 474,	
415, 897, 914,	
126, 883, 399,	
691, 350, 303,	
822, 20, 202,	
892, 5, 611,	
139, 750, 809,	
174, 483, 123,	
74, 34, 859,	
857, 454, 190,	
948, 561]	