

**SampleCoordinates:**

Distance = 0.16446989718

best path = [0, 4, 3, 5]

**HungaryCities**

Distance = 0.111448611882

best path = [311, 19, 460, 629, 269, 236, 781, 50, 193, 571, 624, 402, 370, 153, 262, 554, 126, 251, 368, 221, 827, 300, 648, 253, 836, 73, 35, 219, 503, 789, 200, 702]

**GermanyCities**

function	time(s) GermanyCities
read_coordinate_file	0,05
compute_graph_connections	35
construct_graph	0,067
Task 6+7	0,013
plot_points (from task 8, excl. plt.show)	4
construct_fast_graph_connections	0,53
running the entire program using fast version, excluding plotting	0,63

Best path = [10584, 7958, 10362, 9729, 7841, 7064, 6434, 6980, 4289, 5444, 10872, 11378, 8538, 10784, 9346, 7863, 7197, 7733, 9578, 6807, 8148, 7826, 6329, 11716, 9172, 10403, 738, 9998, 9956, 10078, 10476, 9570, 11780, 9856, 8473, 7292, 5970, 10789, 11126, 9467, 7472, 10152, 10971, 4728, 10743, 11054, 5357, 9338, 9513, 7083, 9104, 5513, 4651, 6987, 4699, 4887, 1112, 8352, 9350, 6162, 5762, 4652, 629, 4806, 4135, 10561, 4084, 9311, 10160, 7115, 3122, 7418, 4325, 10232, 10105, 9989, 3995, 8847, 8765, 11572, 6048, 6062, 6473, 5813, 2266, 4890, 3987, 4399, 2376, 2738, 2522, 4160, 270, 3700, 4712, 7571, 6906, 5932, 5004, 6251, 7656, 5614, 764, 6846, 4850, 3776, 3610, 4390, 4656, 6172, 3467, 5634, 2269, 4448, 4197, 2958, 3182, 2499, 7014, 1573]

Distance:0,223119185366