

Homework 1:

Create some examples (i.e., test problems) with 10 cities to clearly demonstrate the search behavior of the nearest neighbor greedy algorithm. The quality of the obtained solution (obtained tour) is evaluated by the following quality measure (in this formulation, the larger values show the worse solutions: 1 is the optimal solution).

$$\text{Solution Quality} = \frac{\text{Obtained Tour Length}}{\text{Optimal Tour Length}}$$