

Homework Batch III: Routing Algorithms

Deadline: 18/05/2021

03/05/2021

1. Implement the binary heap-based version of the Dijkstra's algorithm.
2. Consider the contraction hierarchies presented during the course. Assume to deal with graphs that can be fully represented in the memory of your computer. Implement:
 - (a) an algorithm to add the shortcuts to a graph;
 - (b) a bidirectional version of Dijkstra algorithm that can operate on the graphs decorated by the algorithm at Point 2a.