

1 . You are given a graph. From a given source, find the 2nd shortest path to all the nodes.

The second-best path may may backtrack i.e. use the same road or intersection more than once. The second-best path is the shortest path whose length is longer than the shortest path(s) (i.e. if two or more shortest paths exist, the second-shortest path is the one whose length is longer than those but no longer than any other path).

2. If a negative cycle exists in a graph, print any negative cycle modifying Bellman-Ford algorithm.