

## Lab 7

**Exercise 1:** Modify the code for the Bellman-Ford single-source shortest path algorithm so that it takes as input the origin  $x$  and destination  $y$  and returns the actual shortest *path* from  $x$  to  $y$  and not just the length of the shortest path. You can assume that  $y$  is reachable from  $x$  and that there are no negative weight cycles.