Problem 13 1: Even though the suggested algorithm may look logical, it is not. me concrider a directed graph G= (V, E), containing negative edge weights as follow: we consider the shortest path, that is obvious: u -s u -s v, that contains two edges. me add value 125 to all nodes, (smallest negative meight): graph G (U, E')

The shortest actual path between u and u Is in this case it sv, which contains only one edge. The path after the modification is different than the actual shortest path given the initial graph o Hence the algorithm is incorrect. In the path u sus v, we added the weight a times since the path has a edges, In the other hand, in path usv, we added the positive weight only one time The additional weight is not equally distributed between the edges est paths