

CSC 2300 – Data Structures and Algorithms

Homework 8

Due in Class on Tuesday, April 24

Late Policy is Three Late Days for the whole term

1. Problem 9.11. Important: Change the capacity of the edge (I,t) to 5.
2. Find the maximum flow in the network of Figure 9.39. Important: Change the capacity of the edge (s,a) to 5, the capacity of (c,t) to 4, and add a new edge from d to c of capacity 4.
3. Problem 9.15a. Important: Change the capacity of the edge (E,I) to 5. Also, use only Prim's algorithm.
4. Find a minimum spanning tree for the graph in Figure 9.48 using Prim's algorithm. Important: Change the capacity of the edge (v_1,v_4) to 9, and that of the edge (v_4,v_7) to 11.