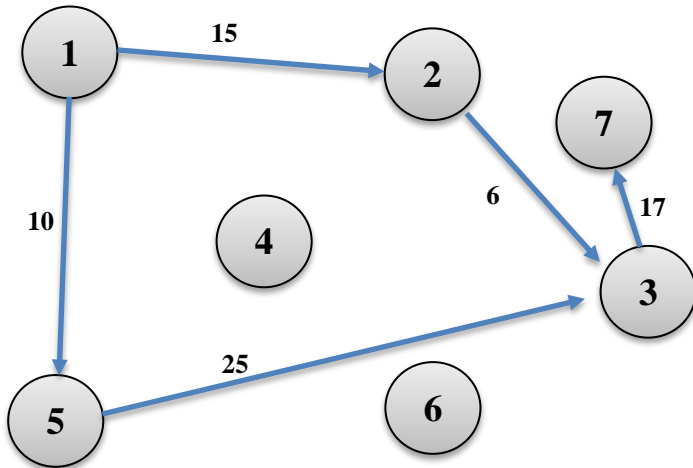


CS 324 Intro to Design of Algorithm

Practice 4 Fall 2017

Question 1 Write a program that prints out the edge set and the vertex set for a given graph (represented by a weight matrix W). In addition, you need to print all isolated vertices. A vertex is isolated if it has no edges going into it or coming out of it. Test your program with the following two graphs:

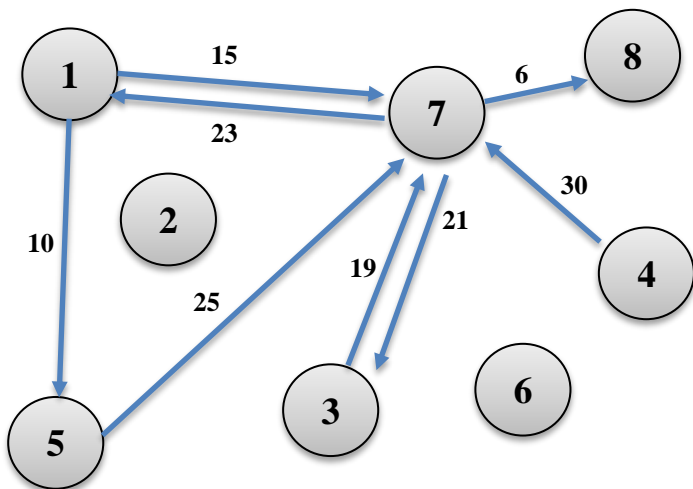


Your program should print:

$V = \{1, 2, 3, 4, 5, 6, 7\}$

$E = \{(1, 2), (1, 5), (2, 3), (3, 7), (5, 3)\}$

Isolated = $\{4, 6\}$



Your program should print:

$V = \{1, 2, 3, 4, 5, 6, 7, 8\}$

$E = \{(1, 7), (7, 1), (1, 5), (3, 7), (7, 3), (4, 7), (5, 7), (7, 8)\}$

Isolated = $\{2, 6\}$