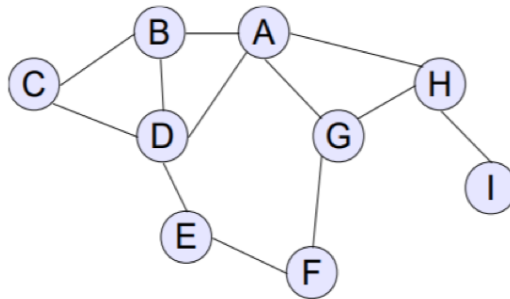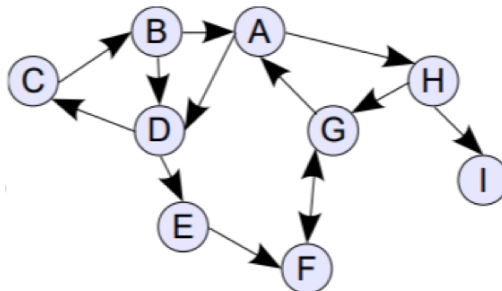# CSC 212 Tutorial #14

Graphs

Problem 1

- Give the adjacency matrix for the previous graph

- Give the BFS and DFS traversals starting at node B (order the children alphabetically)
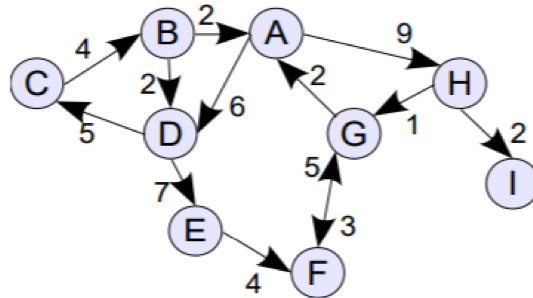
Problem 2

Give the adjacency list for the following graph:

Problem 3

Give the adjacency matrix and the adjacency list for the following graph:

Problem 4

Give the graph represented by the following adjacency matrix:

-	A	B	C	D	E	F
A	0	1	2	3	0	0
B	2	0	3	4	5	0
C	3	3	0	0	3	0
D	4	7	0	0	0	1
E	0	3	0	0	0	5
F	0	0	2	3	9	0

Problem 5

Give the graph represented by the following adjacency list:

A → (B, 3) → (D, 1) → (E, 2) → (F, 3) /

B → (A, 5) → (C, 3) → (D, 1) /

C → (A, 4) /

D

E → (A, 3) → (B, 3) → (F, 5) /

F → (C, 2) → (D, 3) → (E, 3) → (G, 3) /

G → (A, 7) → (B, 9) /