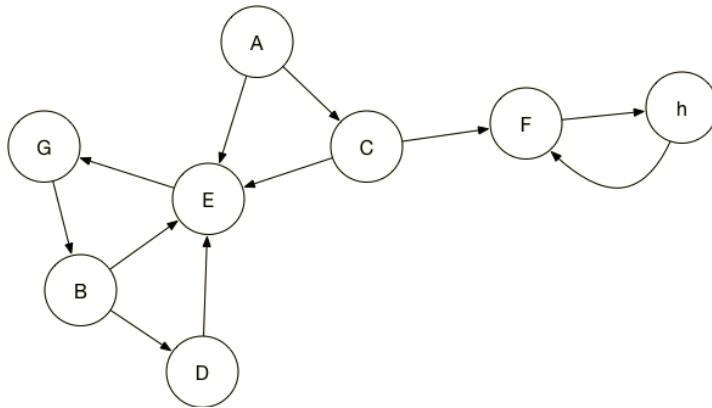# Programming & Data Structures
Week 10 Assignment

Question 2)
Use the graph below to answer the following questions:
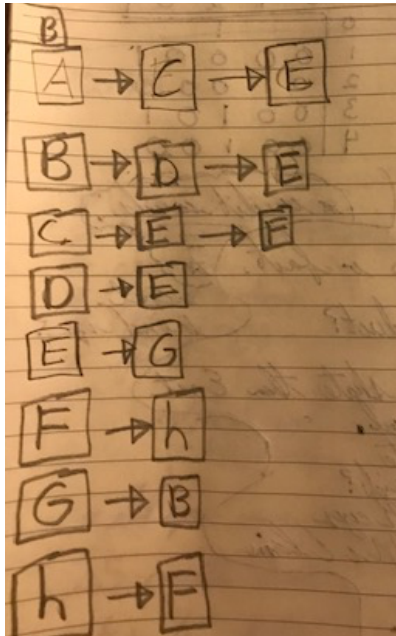

a) Depict the adjacency matrix for the graph above.

Depict the adjacency list for the graph above.

A → C → E
B → D → E
C → E → F
D → E
E → G
F → h
G → B
h → F

c) How many connected components are there in the graph?
1

d) Run a DFS from B and state the sequence of nodes.
B, E, G, D
B
D,E
D,G,

e) Run a BFS from E and state the sequence of nodes.
EGBD

f) Are there cycles in the above graph? Identify all that you can find.
Assuming cycles are three or more.

EGBE, EGBDE