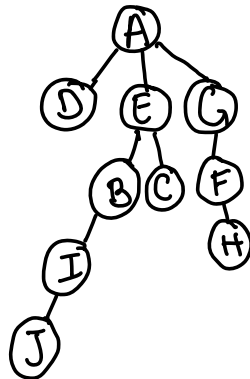


Problem 3: Graph Search

① [(A,D), (A,E), (A,G), (E,B), (E,C), (B,I), (I,J), (G,F), (F,H)]

a. visualization



[(A,D), (A,E), (A,G), (E,B), (E,C), (B,I), (I,J), (G,F), (F,H)]

b. perform BFS

visited

A, D, E, G, B, C, F, I, H, J

current

∅, E, G, B, C, F, I, H, J

c. perform DFS

A
G
F
H
E
C
B
I
J
D

stack

A
G
F
H
E
C
B
I
J
D

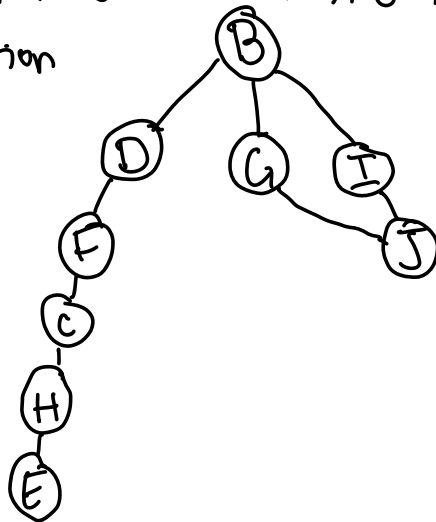
visitedset

traversal ordering

A, G, F, H, E, C, B, I, J, D

② [(B, D), (B, G), (B, I), (C, F), (C, H), (D, F), (E, H), (G, J), (I, J)]

a. visualization



b. perform BFS, vertex I

visited

I, B, J, D, G, F, C, H, E

current

~~B~~, ~~J~~, ~~D~~, G, F

c. perform DFS, vertex G

F
D
C
B

stack

~~B~~
J
I
B
D

visited set

traversal ordering

G, J, I, B, D, F, C, H, E