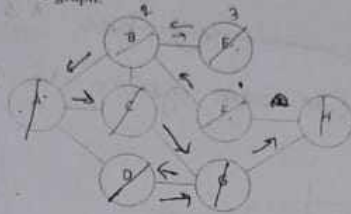


ID: ~~22201253~~ 22201253

[2+2+6]



- $A \rightarrow B, e, D$
 $B \rightarrow A, e, f, f$
 $C \rightarrow A, B, e, e$
 $D \rightarrow A, e$
 ~~$F \rightarrow A$~~ $F \rightarrow B, H$
 ~~$F \rightarrow A, G$~~ $G \rightarrow e, D, H$
 $H \rightarrow F, e$

$$\begin{array}{r} 8) 53(6 \\ \underline{48} \\ 5 \\ \underline{+2} \\ 6 \end{array}$$

7.

Step 1: Initially, stack and traverse list is empty. Now our root node is created... push F

F. ~~E has two unvisited~~ .. push F

In stark and F has two Unvisited

node B, H. ~~node A~~: Now push B, H. we
going to push B.



traverse: F B ✓

step: 2 B



has 3 adjacent

node A, C, F, we are going to push E in

stack

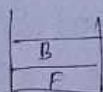


traverse: F B E ✓

step 3: Now move to F

step 3 F has no adjacent node so we are

going to pop out.



pop: F

traverse: F B E

step 4:

step 4 Then we are going to back B

Because our last node is B element

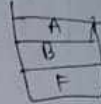
In stack is B. B has two unvisited

node A, C, we are going to push

Step 5: ~~B~~ A into stack ~~mark~~ and mark it as visited.

traverse: ~~F B E A~~

pop: E



Step 6: Now A has two unvisited node

C, D. We are going to push C in stack



traverse: ~~F B E A C~~

pop: E

Step 7: ~~A~~ C node has ~~two~~ one

unvisited node G. We are going to push

~~C~~ G ~~in~~ stack, and mark it as visited



traverse: ~~F B E A C G~~

pop: E

Step 8: A has two unvisited node H, D

We are going to push D in stack.



traverse: ~~FBEACGD~~
pop: E

Step: 9: Now D has no unvisited node so we are going to pop out D.



traverse: ~~FBEACGD~~
pop: ED

Step: 10: we are going to back G and G has one unvisited node H and we are going to push it in stack



traverse: ~~FBEACGDH~~
pop: ED

Step: 11 Now H has no unvisited

node we are going to pop out it



traverse: ~~FBEACGDH~~
pop: EDH

Step 12:

C
A
B
F

popout: E D H G

Step 13:

A
B
F

popout: E D H G C

Step 14:

B
F

popout: F D H G C A

Step 15:

F

popout: F D H G C A B

Step 16:

--

popout: E D H G C A B F

(A)

	A	B	C	D	F	F	G	H
A	0	1	1	1	0	0	0	0
B	1	0	1	0	1	1	0	0
C	1	1	0	0	0	0	0	1
D	1	0	0	0	0	0	0	0
F	0	1	0	0	0	0	0	1
F	0	1	0	0	0	0	0	1
G	0	0	0	0	0	0	1	1
H	0	0	0	0	0	0	1	1