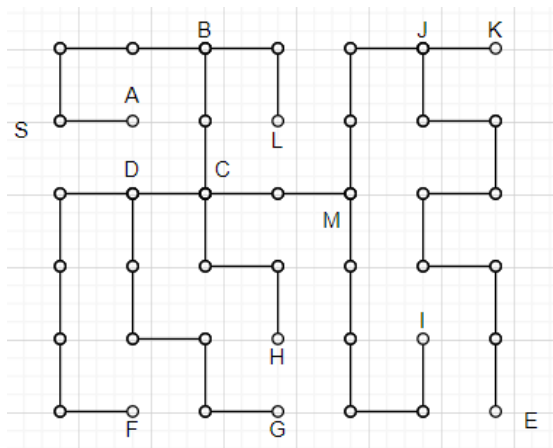
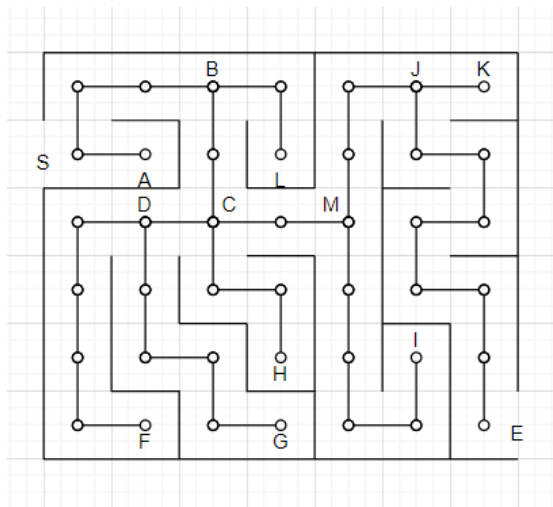
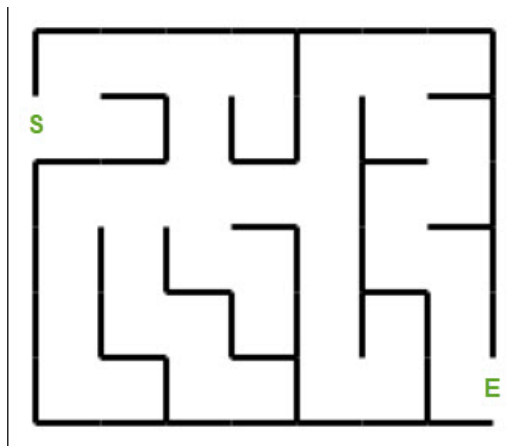
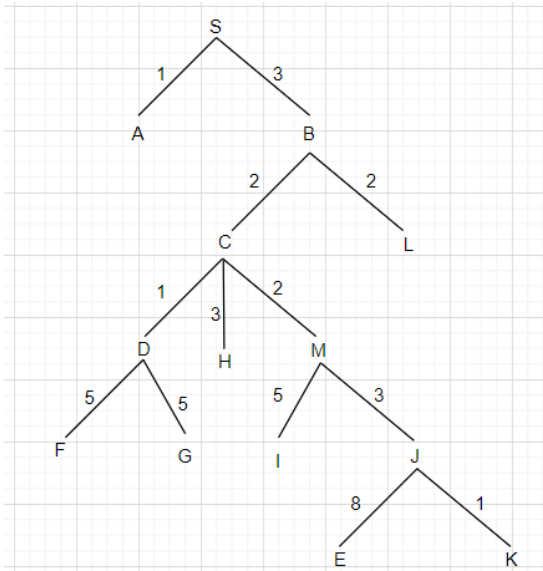


Step 1: Please convert the following maze into a graph





Step 2: Use Depth First Traversal (DFT) to find the route from S to E

1. initialize the stack



Stack

2. visited S

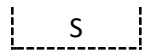


Stack

3. visited A



A



Stack

4. pop A



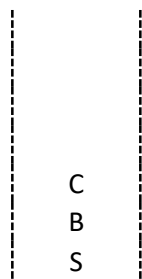
Stack

5. visited B



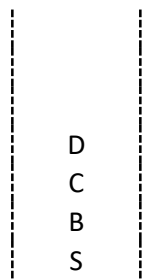
Stack

6. visited C



Stack

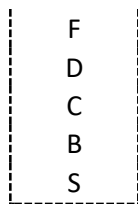
7. visited D



Stack

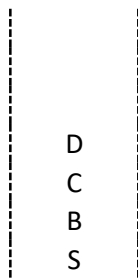
8. visited F





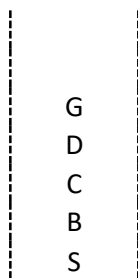
Stack

9. pop F



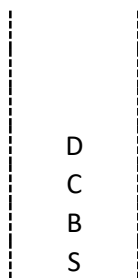
Stack

10. visited G



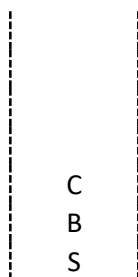
Stack

11. pop G



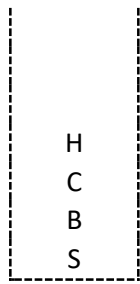
Stack

12. pop D



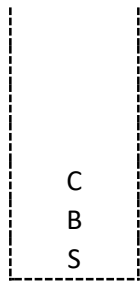
Stack

13. visited H



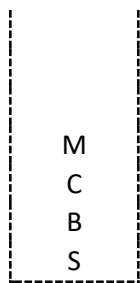
Stack

14. pop H



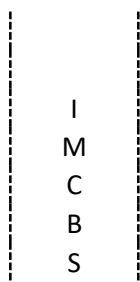
Stack

15. visited M



Stack

16. visited I



Stack

17. pop I



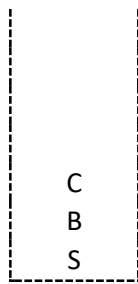
C
B
S
Stack
18. visited J

J
M
C
B
S
Stack
19. visited E

E
J
M
C
B
S
Stack
20. pop E

J
M
C
B
S
Stack
21. pop J

M
C
B
S
Stack
22. pop M



Stack

23. pop C



Stack

24. pop B



Stack

25. pop S; the stack is empty, stop.



Stack