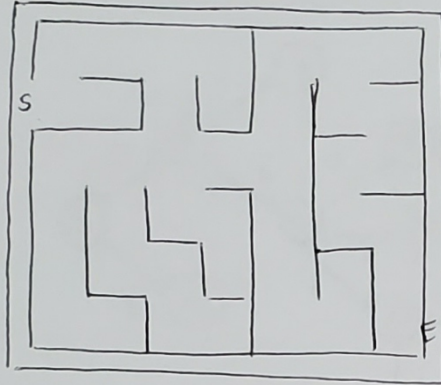
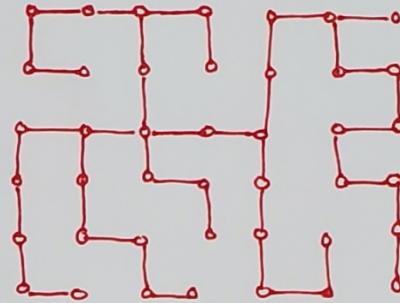


Use Dijkstra's Algorithm to find the shortest path of the following maze.

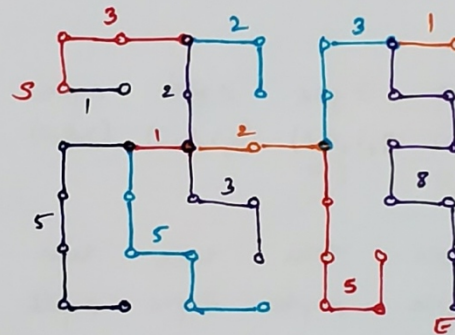
Step 1:



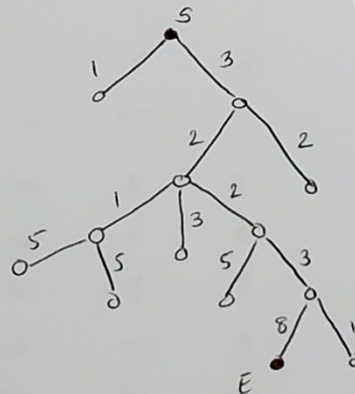
Step 2:

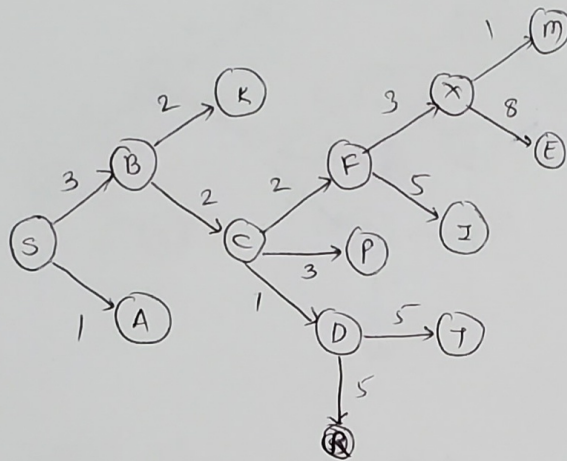


Step 3:



Step 4: Create a tree from maze.



[illegible]

✓: the current visiting node

✓: the next node to visit

✓: this node has been visited

stop when destination node E is reached

so therefore the distance from S to E is 18

$S \rightarrow B \rightarrow C \rightarrow D \rightarrow F \rightarrow X \rightarrow E$