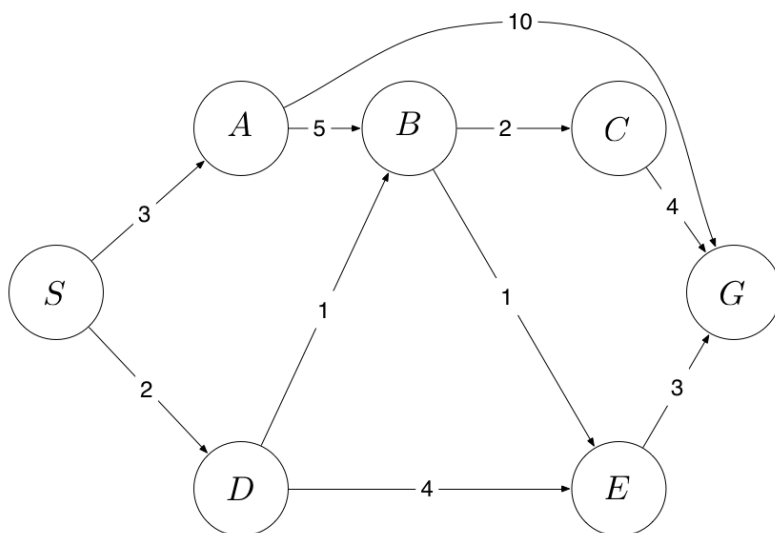


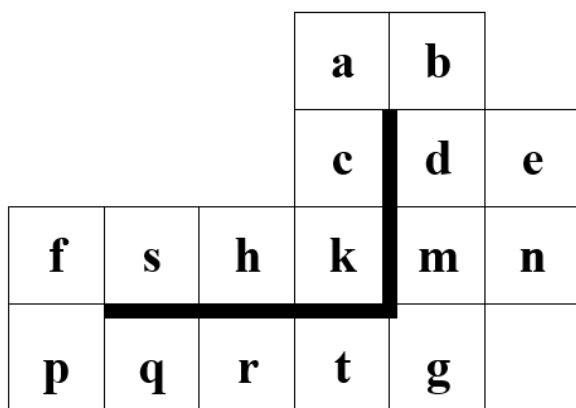
Question 1:

Find the path from S to G using the UCS algorithm for the graph below. Please show the transformation of *fringe* and the path found



Question 2

Given the maze as shown below. Bold lines represent impassable wall.

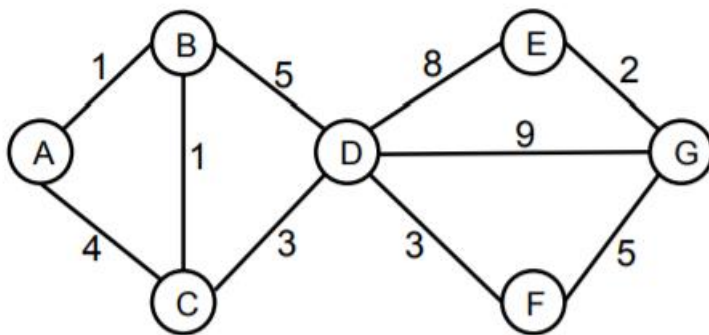


Find your way from s to g with the search strategies as below. Show the expanded order of each cells according to format $\langle b_1, b_2, \dots, b_n \rangle$, with b_i is the expanded cell.

a. BFS

b. DFS with state checks along the way to avoid loops. The expansion order is Right
-> Bottom -> Left -> Top

Question 3:



Find the way from A to G. Show the transformation steps of fringe (stack, queue).

- a. BFS
- b. DSF
- c. UCS