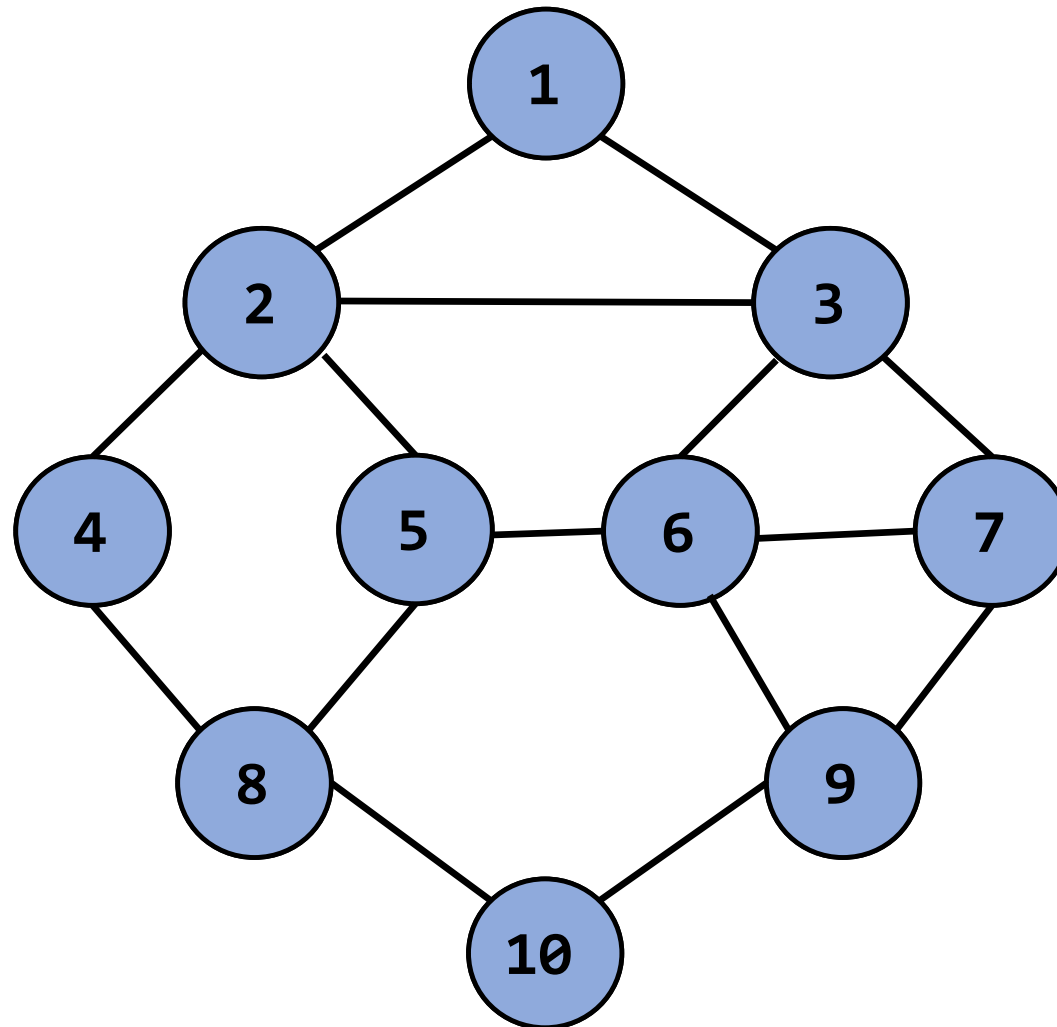


# Breadth First Search For Graphs

RL690CU FTL2C 269LCU FOL @L9bu2

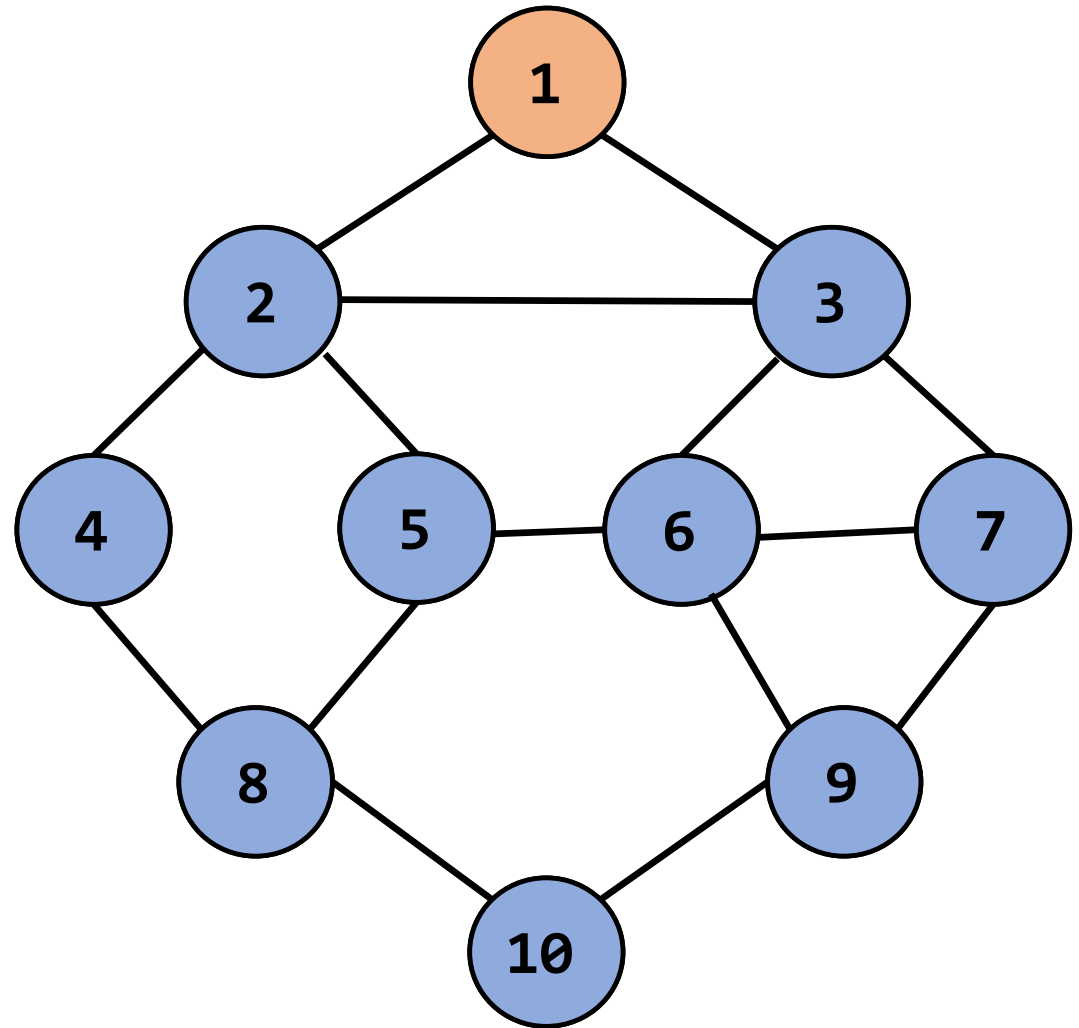
**Graph -**



QUEUE → 1

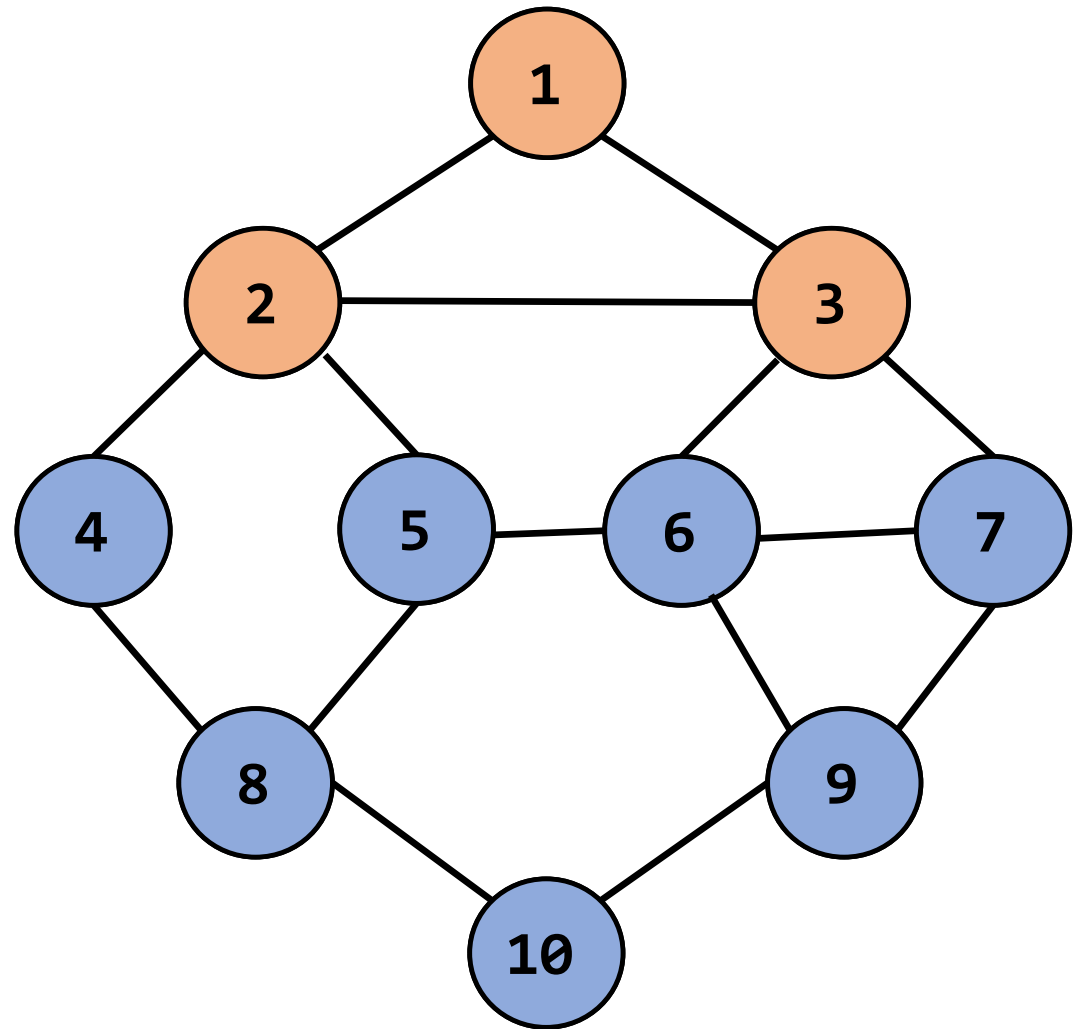
OUTPUT →

Now, we will mark the node 1 as visited and put the vertices adjacent to the node 1 in the queue and remove it from queue.



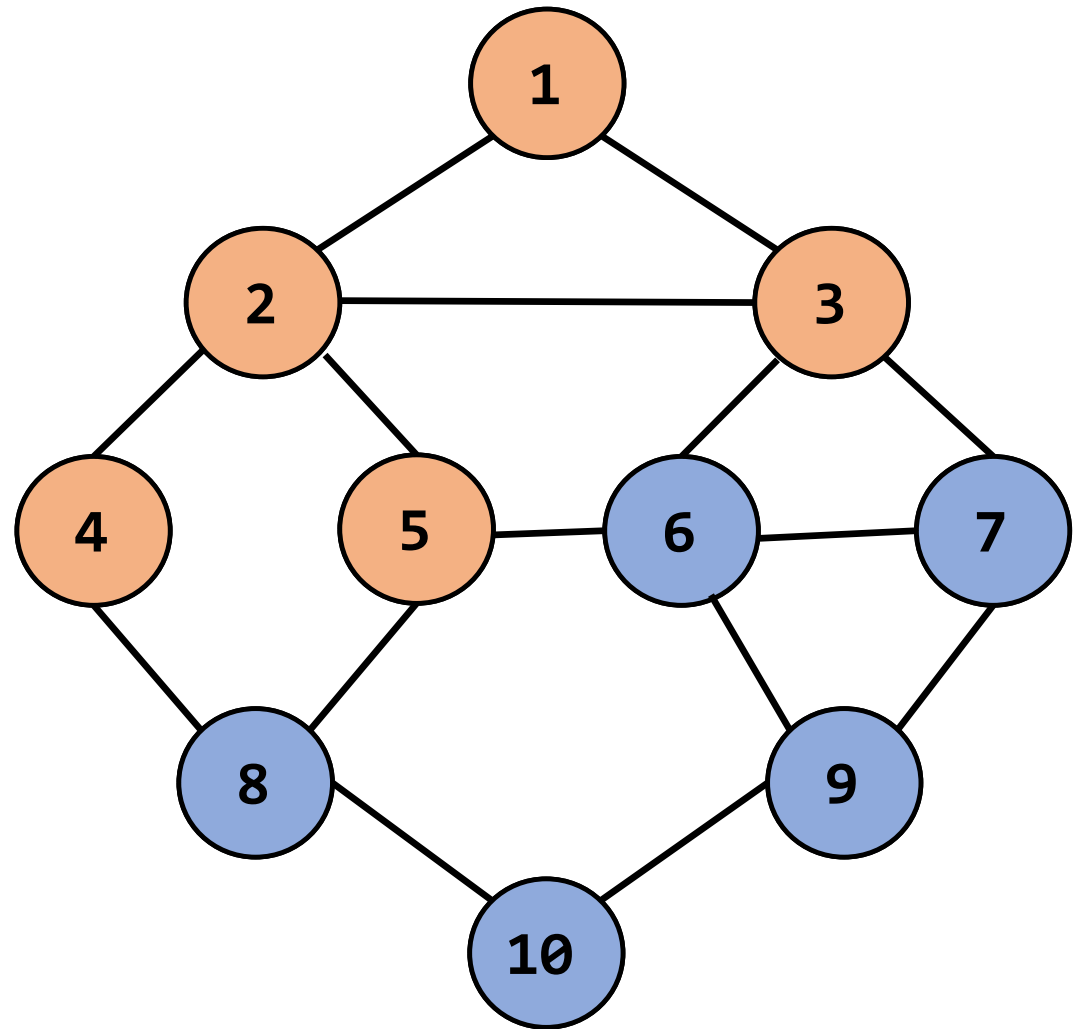
QUEUE → 2 3

OUTPUT → 1



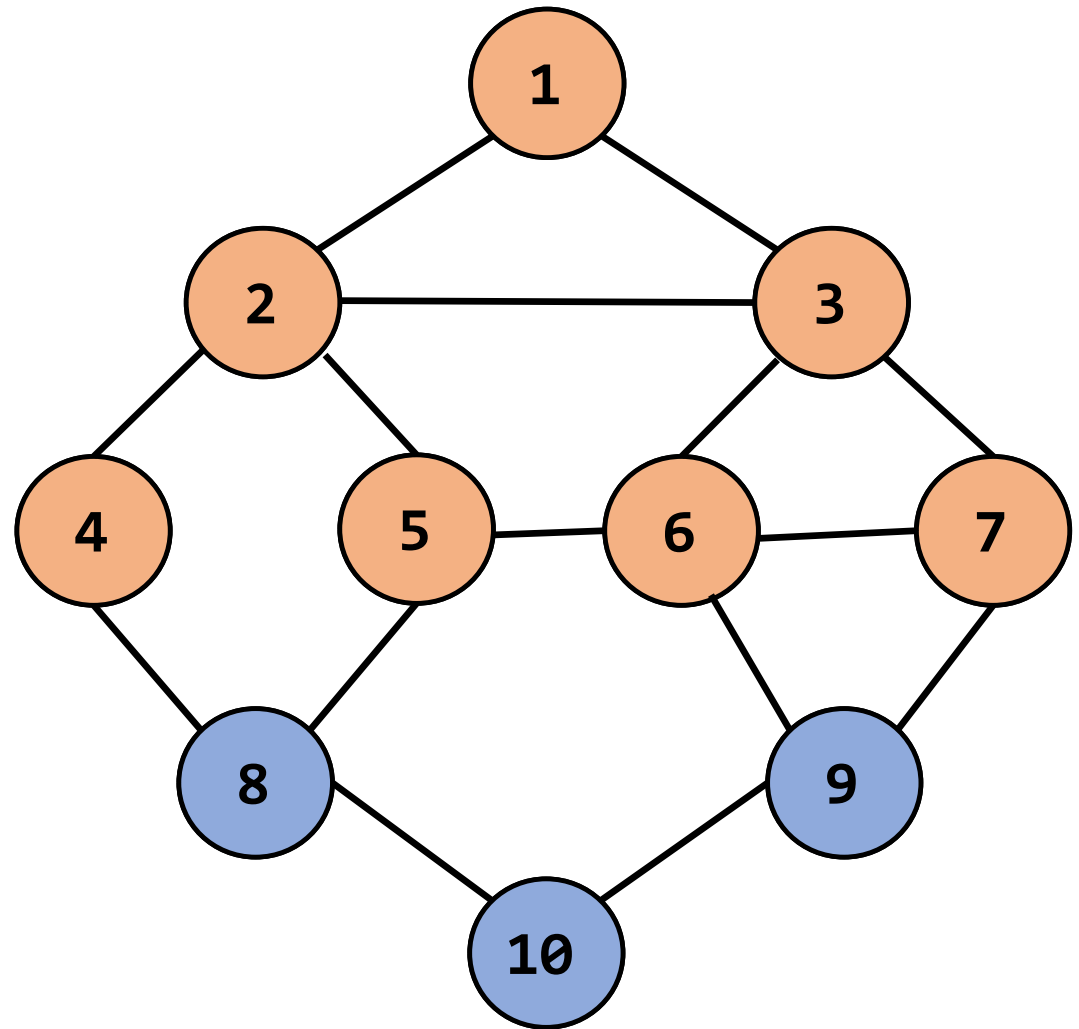
QUEUE → 3 4 5

OUTPUT → 1 2



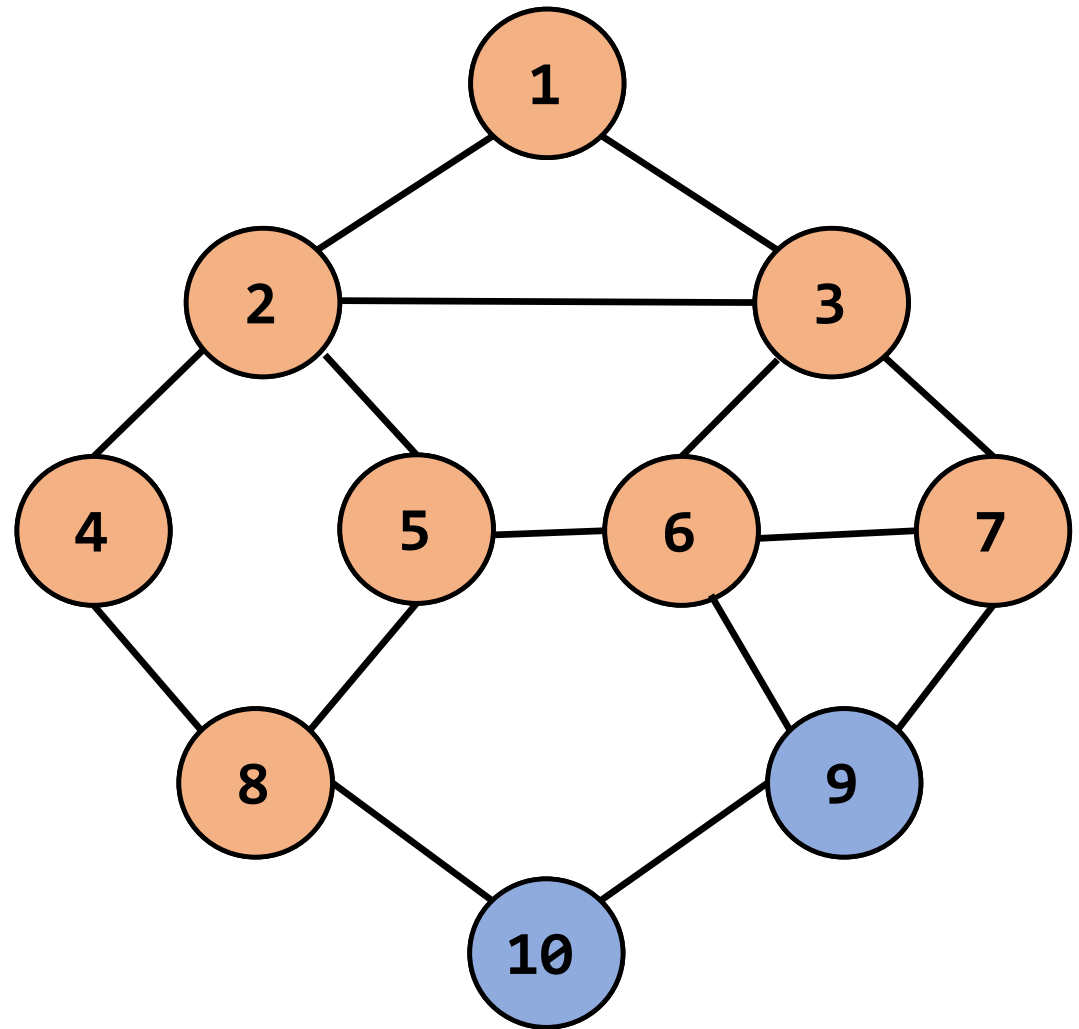
QUEUE → 4 5 6 7

OUTPUT → 1 2 3



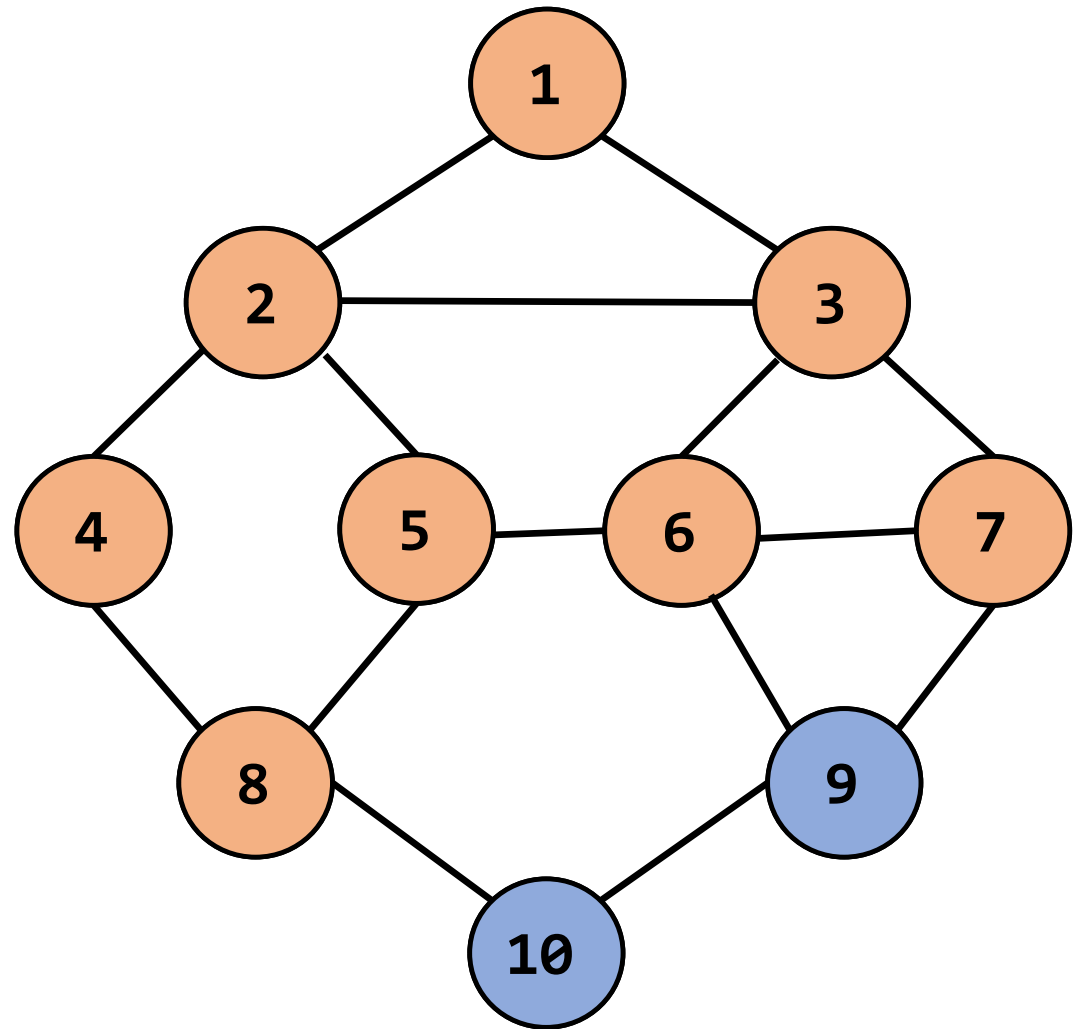
QUEUE → 5 6 7 8

OUTPUT → 1 2 3 4



QUEUE → 6 7 8

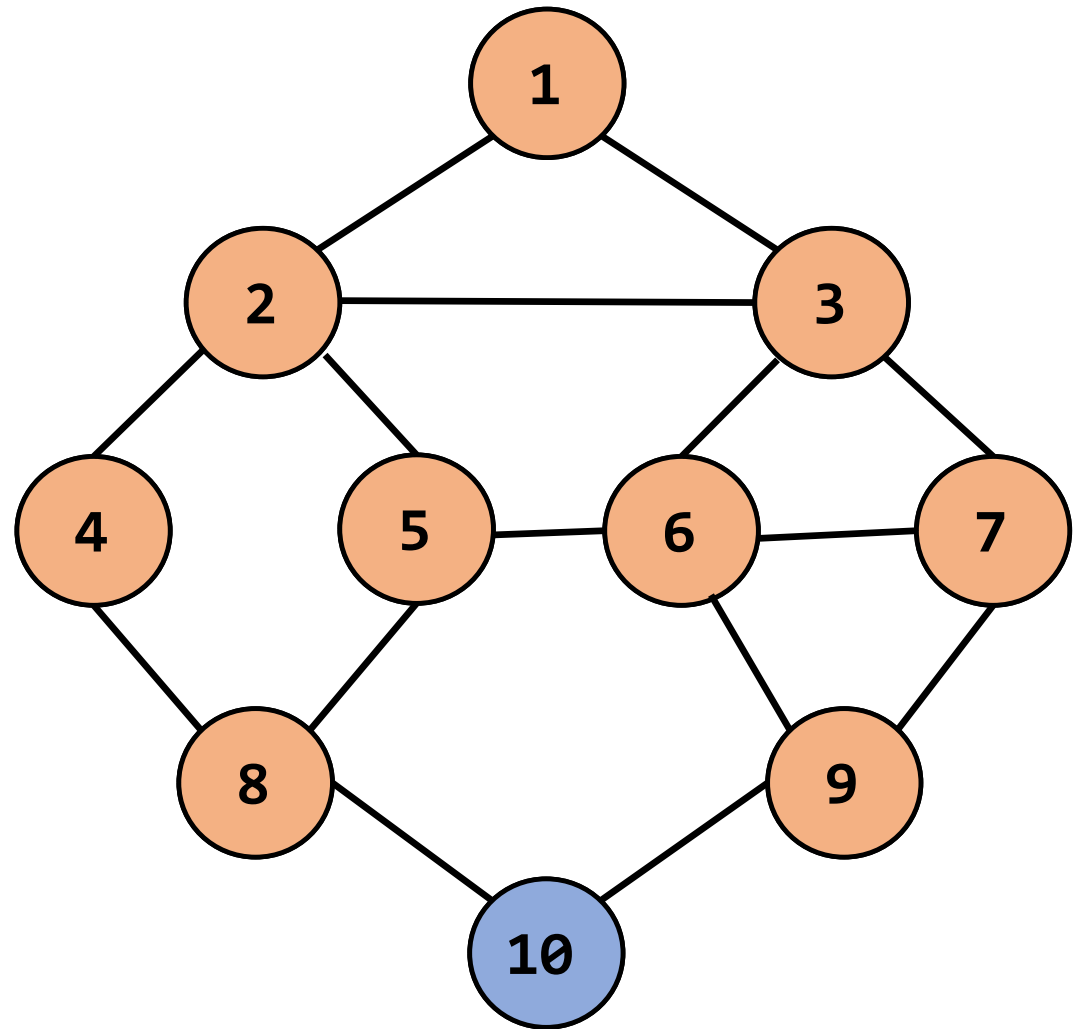
OUTPUT → 1 2 3 4 5





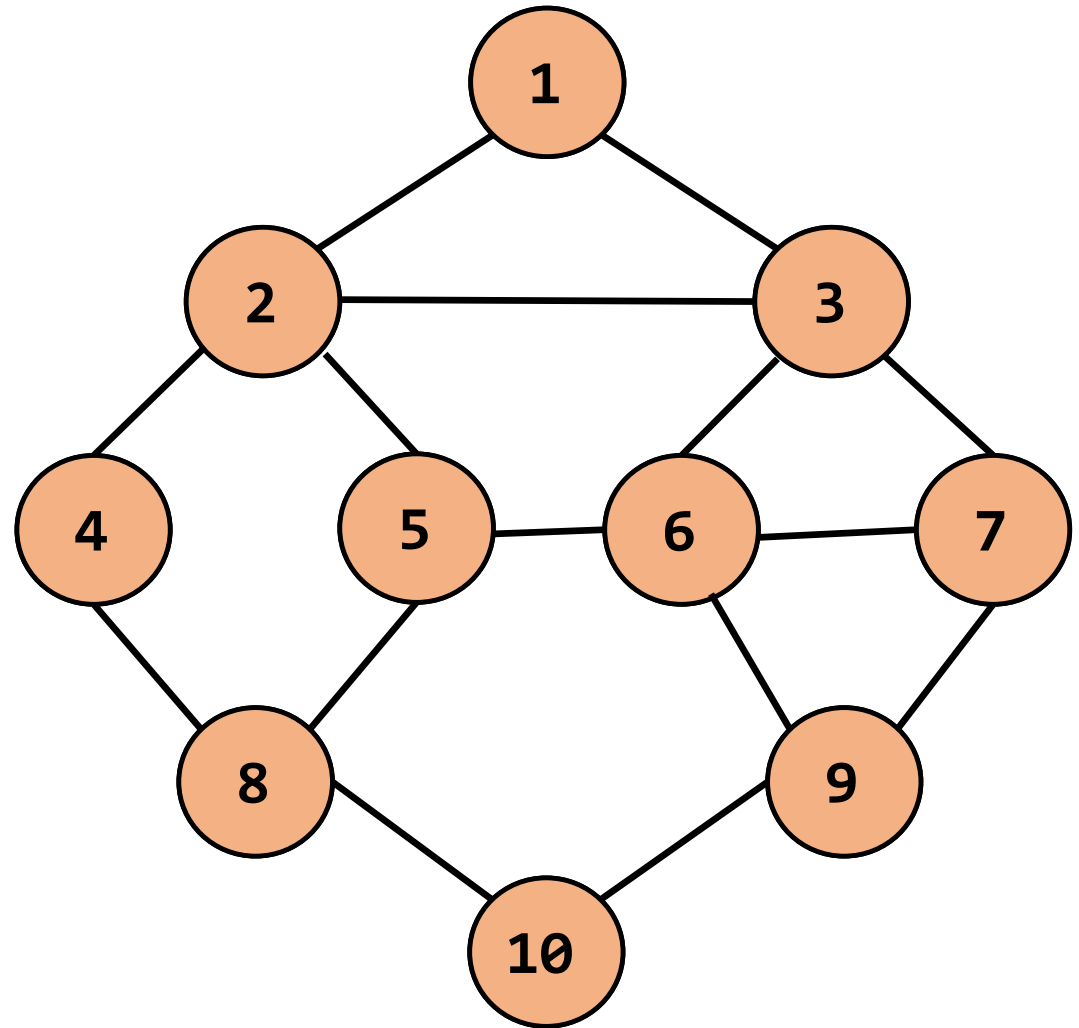
QUEUE → 7 8 9

OUTPUT → 1 2 3 4 5 6



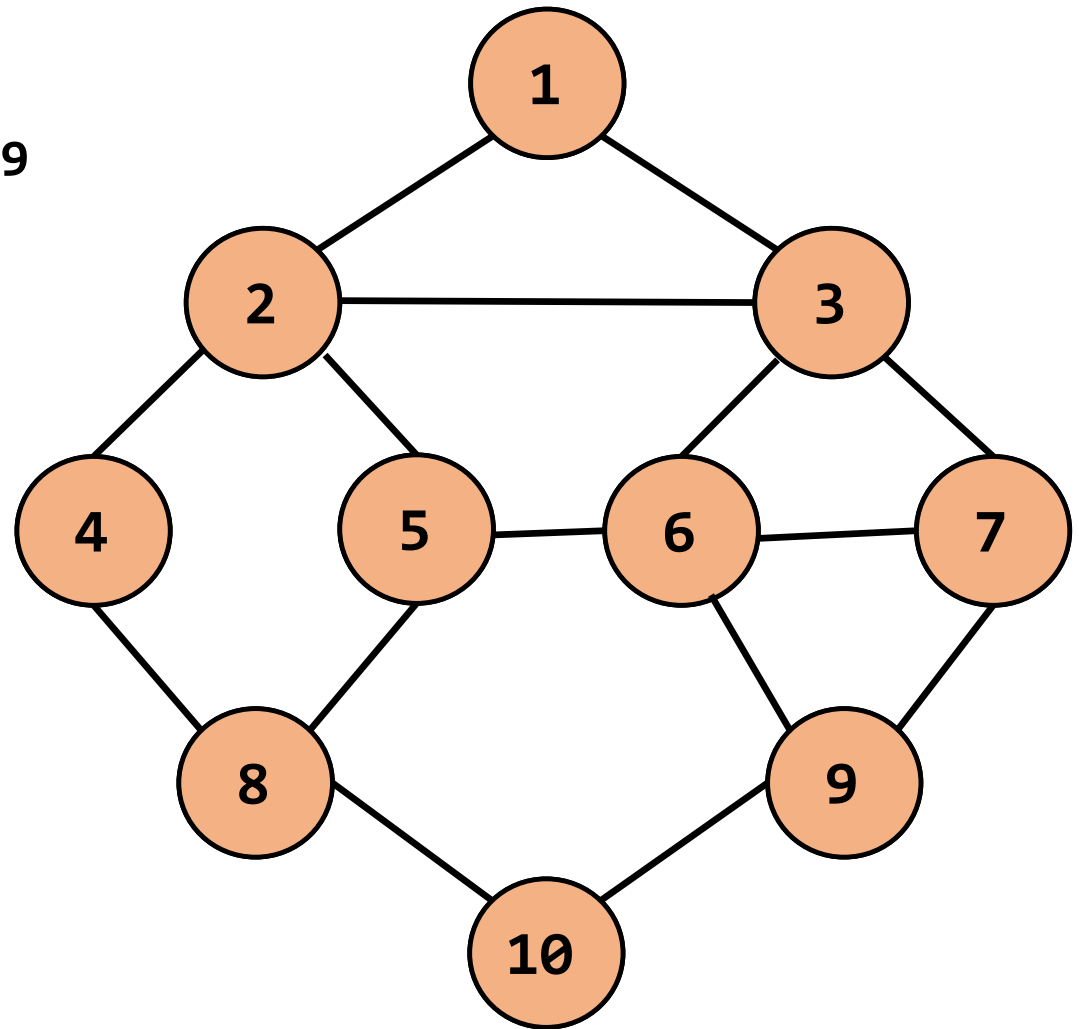
QUEUE → 9 10

OUTPUT → 1 2 3 4 5 6 7 8



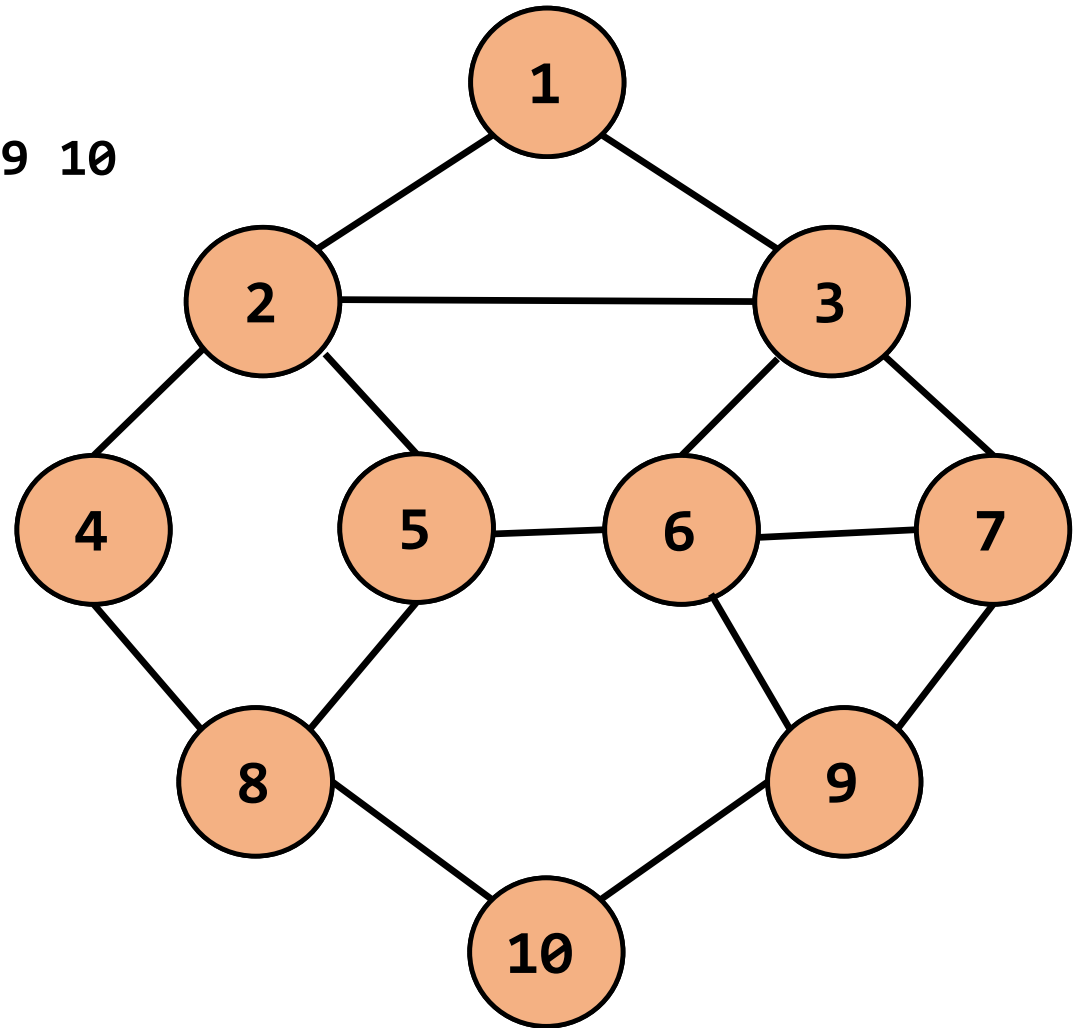
QUEUE → 10

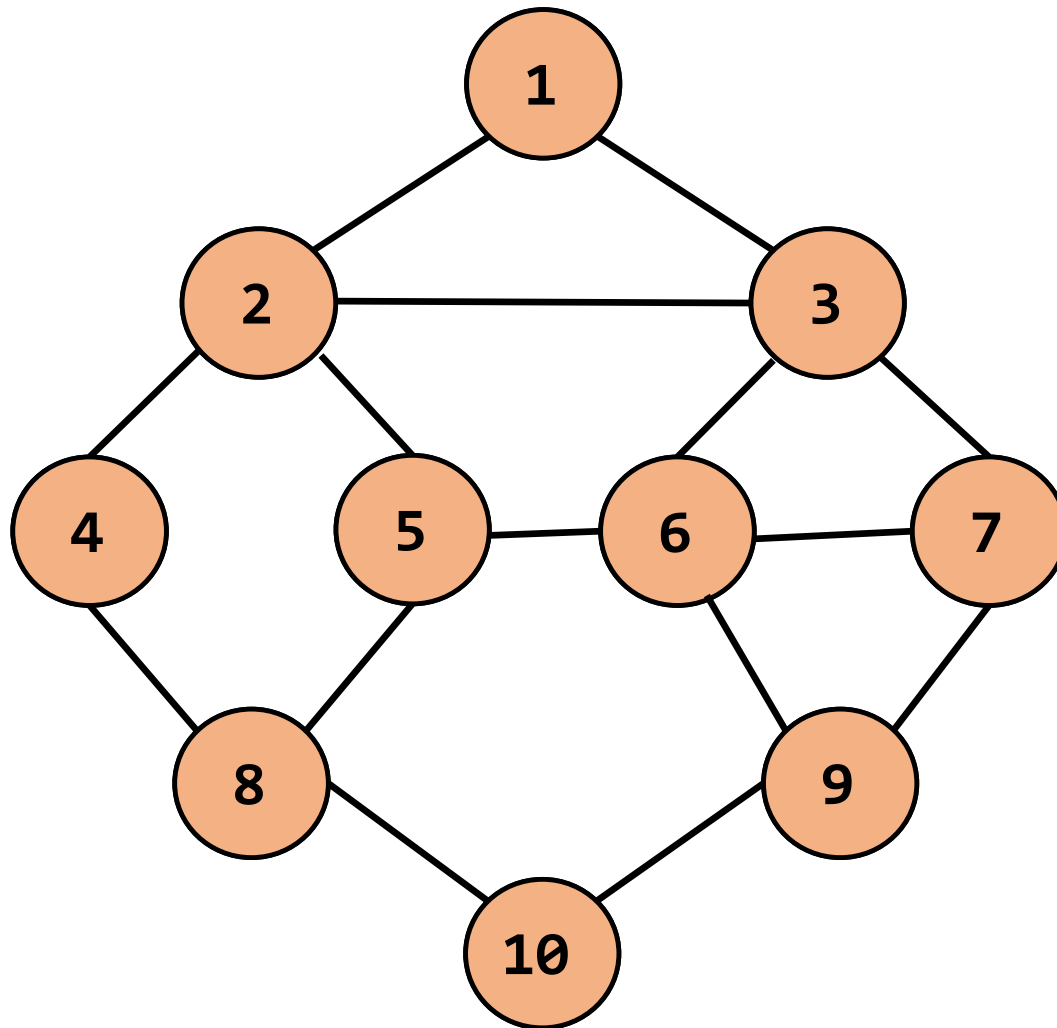
OUTPUT → 1 2 3 4 5 6 7 8 9



QUEUE → Empty

OUTPUT → 1 2 3 4 5 6 7 8 9 10





All the nodes of our graph are visited and queue is also empty so BFS is done.

So our final Output of the BFS for this graph is→  
1 2 3 4 5 6 7 8 9 10