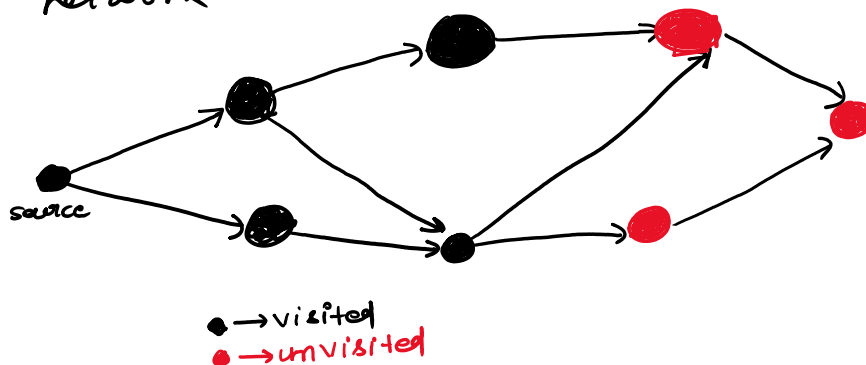


It is graph traversal Algorithm used to travel graph systematically level by level.

This is useful in scenarios like

- i) Find minimal Number of edges between two nodes
- ii) Traverse graph
- iii) find people with certain degree of connection in network



How it works

i) Initialization :- create a queue and enqueue first node
Initialize a visited array.

ii) Traversal :- while que is not empty

a) deque node

b) visit all neighbours

c) mark each neighbours visited and enqueue it.

iv) Termination :- When que is empty and all nodes are visited Then algorithm terminates

Time complexity : $O(V+E)$

Space complexity : $O(V)$