

1- The **Breadth First Search (BFS)** algorithm is used to search a graph data structure for a node.

How does BFS work?

Starting from the root, all the nodes at a particular level are visited first and then the nodes of the next level are traversed till all the nodes are visited.

To do this a queue is used. All the adjacent unvisited nodes of the current level are pushed into the queue and the nodes of the current level are marked visited and popped from the queue.

2- The **Depth-first search** is an algorithm for traversing or searching tree or graph data structures.

How does DFS work?

The algorithm starts at the root node (selecting some arbitrary node as the root node in the case of a graph) and explores as far as possible along each branch before backtracking.