**What is BFS and DFS?**

**BFS (Breadth-First Search):**

Is a vertex-based technique for finding the shortest path in the graph. It *uses a Queue* data structure that follows first in first out.

It uses a Queue data structure that follows first in first out. In BFS, one vertex is selected at a time when it is visited and marked then its adjacent are visited and stored in the queue. It is slower than DFS.

**Time:** O (V+E).

BFS is better to be used if target is far from starting point.

**DFS (Depth First Search):**

Is an edge-based technique. It *usews the Stack* data structure

Performs two stages, first visited vertices are pushed into the stack, and second if there are no vertices then visited vertices are popped.

**Time:** O (V+E).

DFS is better to be used in decision trees.