Single source bfs:running bfs from only a single node.
Multi source bfs: running bfs from multiple nodes.
BFS can even calculate the shortest path in a 0--1weighted graph.

Two types of BFS traversal;

1.

```
while(!q.empty())
{

node=q.front();
q.pop();
for(auto child:node)
{
        q.push(child);
}

}
```

2.When we want to track where the level changes:

```
while(!q.empty())
{
int n=q.size();
for(int i=1;i<=n;i++)
{
node=q.front();
q.pop();
for(auto child:node)
{
        q.push(child);
}
}
}
```

When you have to find answer using recursion (i.e. considering many possible ways) in least depth of recursion tree,use BFS instead of DFS i.e. backtracking.