

## BREADTH FIRST SEARCH (BFS)

Algorithm BFS(v)

```
{
    u := v;
    visiting[v] := 1;
    while(true)
    {
        for all vertices w adjacent from u do
        {
            if(visiting[w] = 0) then
            {
                Add w to queue;
                visiting[w] := 1;
            }
        }
        if queue is empty then return;
        Delete the next element u from queue;
    }
}
```

Algorithm BFT(G, n)

```
{
    for i := 1 to n do
        visiting[i] := 0;
    for i := 1 to n do
        if(visiting[i] = 0) then BFS(i);
}
```