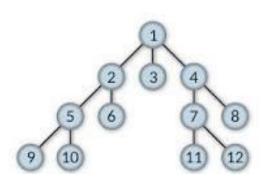
Data Structures and Algorithms

Lab: Graph Algorithm



Code:

```
import java.util.*;
2 usages
public class BFS {
    3 usages
    private int N;
    4 usages
    private LinkedList<Integer> adjacent[];
    1 usage
    BFS(int n)
    {
        N = n;
        adjacent = new LinkedList[N];
        for (int i = 0; i < n; ++i)
        adjacent[i] = new LinkedList();
    }
    11 usages
    void Edge(int n, int edg)
    { //inserting edge
        adjacent[n].add(edg);
    }

1 usage
    void BFSalge(int v) {
        boolean visited[] = new boolean[N];
        LinkedList<Integer> queue = new LinkedList();
        visited[v] = true;
        queue.add(v);
```

Output:

```
Following is Breadth First Traversal:
1 2 3 4 5 6 7 8 9 10 11 12
```

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