class Solution

{

public ArrayList<Integer> bfsOfGraph(int V, ArrayList<ArrayList<Integer>> adj)

{

ArrayList<Integer> res=new ArrayList<Integer>();

boolean[] visited =new boolean[V];

LinkedList<Integer> queue=new LinkedList<Integer>();

queue.add(0);

res.add(0);

visited[0]=true;

int levels=0;

while(!queue.isEmpty()){

int size=queue.size();

levels++;

for(int i=0;i<size;i++){

int r=queue.removeFirst();

for(Integer neigh:adj.get(r)){

if(!visited[neigh]){

visited[neigh]=true;

res.add(neigh);

queue.add(neigh);

}

}

}

}

return res;

}

}