



Online Java Compiler IDE

For Multiple Files, Custom Library and File Read/Write, use our new - [Advanced Java IDE](#)

```
1  import java.io.*;
2  import java.util.*;
3  public class BFSTraversal
4  {
5      private int node;          /* total number number of nodes in the graph */
6      private LinkedList<Integer> adj[];      /* adjacency list */
7      private Queue<Integer> que;          /* maintaining a queue */
8      BFSTraversal(int v)
9      {
10         node = v;
11         adj = new LinkedList[node];
12         for (int i=0; i<v; i++)
13         {
14             adj[i] = new LinkedList<>();
15         }
16         que = new LinkedList<Integer>();
17     }
18     void insertEdge(int v,int w)
19     {
20         adj[v].add(w);          /* adding an edge to the adjacency list (edges are bidire
21     }
22     void BFS(int n)
23     {
24         boolean nodes[] = new boolean[node];          /* initialize boolean array for hc
25         int a = 0;
26         nodes[n]=true;
27         que.add(n);          /* root node is added to the top of the queue */
28         while (que.size() != 0)
29         {
30             n = que.poll();          /* remove the top element of the queue */
31             System.out.print(n+" ");          /* print the top element of the queue */
32             for (int i = 0; i < adj[n].size(); i++) /* iterate through the linked li
33             {
34                 a = adj[n].get(i);
35                 if (!nodes[a])          /* only insert nodes into queue if they have not
36                 {
37                     nodes[a] = true;
38                     que.add(a);
39                 }
40             }
41         }
42     }
43     public static void main(String args[])
44     {
45         BFSTraversal graph = new BFSTraversal(6);
46         graph.insertEdge(0, 1);
47         graph.insertEdge(0, 3);
48         graph.insertEdge(0, 4);
49         graph.insertEdge(4, 5);
50         graph.insertEdge(3, 5);
51         graph.insertEdge(1, 2);
52         graph.insertEdge(1, 0);
53         graph.insertEdge(2, 1);
54         graph.insertEdge(4, 1);
55         graph.insertEdge(3, 1);
56         graph.insertEdge(5, 4);
57         graph.insertEdge(5, 3);
58         System.out.println("Breadth First Traversal for the graph is:");
59         graph.BFS(0);
60     }
```

```
61 } |
```

Execute Mode, Version, Inputs & Arguments


Result

CPU Time: 0.12 sec(s), Memory: 33316 kilobyte(s)

compiled and executed in 0.651 sec(s)

```
Breadth First Traversal for the graph is:  
0 1 3 4 2 5
```

Note:

1. For file operations - upload files using upload button , Files will be upload to /uploads folder. You can read those files in program from /uploads folder. To write a file from your program, write files to '/myfiles' folder. Please note the uploaded files stored in the server only for the current session.
2. For detailed documentation check - [Our Documentation](#), or check our [Youtube channel](#).

Thanks for using our
Online Java Compiler IDE
to execute your program



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