



Online Java Compiler IDE

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

```
1  // DFS algorithm in Java
2
3  import java.util.*;
4
5  public class Graph {
6      private LinkedList<Integer> adjLists[];
7      private boolean visited[];
8
9      // Graph creation
10     Graph(int vertices) {
11         adjLists = new LinkedList[vertices];
12         visited = new boolean[vertices];
13
14         for (int i = 0; i < vertices; i++)
15             adjLists[i] = new LinkedList<Integer>();
16     }
17
18     // Add edges
19     void insertEdge(int src, int dest) {
20         adjLists[src].add(dest);
21     }
22
23     // DFS algorithm
24     void DFS(int vertex) {
25         visited[vertex] = true;
26         System.out.print(vertex + " ");
27
28         Iterator<Integer> ite = adjLists[vertex].listIterator();
29         while (ite.hasNext()) {
30             int adj = ite.next();
31             if (!visited[adj])
32                 DFS(adj);
33         }
34     }
35
36     public static void main(String args[]) {
37         Graph graph = new Graph(12);
38         graph.insertEdge(0, 1);
39         graph.insertEdge(0, 3);
40         graph.insertEdge(0, 4);
41         graph.insertEdge(4, 5);
42         graph.insertEdge(3, 5);
43         graph.insertEdge(1, 2);
44         graph.insertEdge(1, 0);
45         graph.insertEdge(2, 1);
46         graph.insertEdge(4, 1);
47         graph.insertEdge(3, 1);
48         graph.insertEdge(5, 4);
49         graph.insertEdge(5, 3);
50
51         System.out.println("Following is Depth First Traversal");
52
53         graph.DFS(2);
54     }
55 }
```

Execute Mode, Version, Inputs & Arguments

CommandLine Arguments

Stdin Inputs


Result

CPU Time: 0.10 sec(s), Memory: 33656 kilobyte(s)

compiled and executed in 0.613 sec(s)

```
Following is Depth First Traversal  
2 1 0 3 5 4
```

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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