```
import java.util.List;
import java.util.LinkedList;
import java.util.Arrays;
import java.util.Queue;
import java.util.ArrayDeque;
import java.util.lterator;
import java.util.Stack;
public class wtg {
  public static void main(String[] args) {
     List<Edge> edges = Arrays.asList(
       new Edge(0,1,10), new Edge(1,2,9), new Edge(1,3,8),
        new Edge(3,4,7), new Edge(4,5,6), new Edge(4,6,5)
     Graph g = new Graph(edges);
     bfs(g, 0);
     System.out.println();
     dfs(g, 0);
     System.out.println();
     print(g);
     System.out.println();
  }
  private static void dfs(Graph g, int src) {
     Stack<Integer> stk = new Stack<>():
     boolean[] vis = new boolean[g.adj.size() + 1];
     vis[src] = true;
     stk.add(src);
     while (!stk.isEmpty()) {
        src = stk.pop();
        System.out.print(src + " ");
       for (Integer nodes : g.adj.get(src)) {
          if (!vis[nodes]) {
             vis[nodes] = true;
             stk.add(nodes);
    }
  }
  private static void print(Graph g) {
     List<Integer> travel;
     while (!q.adj.isEmpty()) {
       for (int i = 0; i < g.adj.size(); i++) {
```

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travel = ((LinkedList<List<Integer>>) g.adj).getFirst();
        lterator<Integer> it = travel.iterator();
        while (it.hasNext()) {
          System.out.println(it.next());
        travel = g.adj.remove(0);
 }
}
private static void bfs(Graph g, int src) {
  Queue<Integer> q = new ArrayDeque<>();
  boolean[] vis = new boolean[g.adj.size() + 1];
  vis[src] = true;
  q.add(src);
  while (!q.isEmpty()) {
     src = q.poll();
     System.out.print(src + " ");
     for (Integer nodes : g.adj.get(src)) {
        if (!vis[nodes]) {
          vis[nodes] = true;
          q.add(nodes);
       }
     }
  }
}
static class Graph {
  List<List<Integer>> adj;
  public Graph(List<Edge> edges) {
     int max = Integer.MIN_VALUE;
     adj = new LinkedList<>();
     for (Edge edge : edges) {
        max = Integer.max(max, Integer.max(edge.dest, edge.src));
     for (int i = 0; i < max + 1; i++) {
        adj.add(new LinkedList<>());
     for (Edge edge : edges) {
        adj.get(edge.src).add(edge.dest);
  }
}
```

```
static class Edge {
   int src, dest, weight;

   public Edge(int src, int dest, int weight) {
      this.weight = weight;
      this.src = src;
      this.dest = dest;
   }
}
```