```
import java.util.LinkedList;
public class Kosraju {
  public static void main(String[] args) {
     int V = 7:
     LinkedList<LinkedList<Integer>> adj = new LinkedList<>();
     for (int i = 0; i < V; i++) {
        adj.add(new LinkedList<>());
     addEdge(0, 1, adj);
     addEdge(0, 2, adj);
     addEdge(1, 3, adj);
     addEdge(4, 1, adj);
     addEdge(6, 4, adj);
     addEdge(5, 6, adj);
     addEdge(5, 2, adj);
     addEdge(6, 0, adj);
     System.out.println(motherVertex(adj, V));
  }
  public static int motherVertex(LinkedList<LinkedList<Integer>> g, int v) {
     boolean[] vis = new boolean[v];
     int V = -1;
     for (int i = 0; i < v; i++) {
       if (!vis[i]) {
          dfs_util(g, i, vis);
          V = i;
     }
     boolean[] check = new boolean[v];
     dfs_util(g, V, check);
     for (boolean val : check) {
       if (!val)
          return -1;
     return V;
  }
  public static void addEdge(int u, int v, LinkedList<LinkedList<Integer>> adj) {
     adj.get(u).add(v);
  }
  public static void dfs_util(LinkedList<LinkedList<Integer>> q, int v, boolean[] vis) {
     vis[v] = true;
```

```
for (var U : g.get(v)) {
      if (!vis[U]) {
            dfs_util(g, U, vis);
      }
    }
}
```