import java.util.ArrayList;

import java.util.List;

public class Main1 {

public static void addEdge(List<List<Integer>> adj, int i, int j) {

adj.get(i).add(j);

adj.get(j).add(i);

}

public static void displayAdjList(List<List<Integer>> adj) {

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

System.out.print(i + ": ");

for (int j : adj.get(i)) {

System.out.print(j + " ");

}

System.out.println();

}

}

public static void main(String[] args) {

int v = 4;

List<List<Integer>> adj = new ArrayList<>();

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

adj.add(new ArrayList<>());

}

addEdge(adj, 0, 1);

addEdge(adj, 0, 2);

addEdge(adj, 1, 2);

addEdge(adj, 2, 3);

System.out.println("Adjacency List representation:");

displayAdjList(adj);

}

}