import java.util.\*;

import java.lang.\*;

public class Cmp {

public int cmp(int g1, int g2, int[][] records, int n) {

// write code here

if (records==null || records.length==0) return 0;

int max = 0;

Map<Integer,List<Integer>> map = new HashMap<>();

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

if(map.get(records[i][0])==null){

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

list.add(records[i][1]);

map.put(records[i][0],list);

}else{

map.get(records[i][0]).add(records[i][1]);

}

int temp = Math.max(records[i][0],records[i][1]);

max = Math.max(max,temp);

}

int[] isVisited = new int[++max];

int[] isVisited2 = new int[max];

if(compare(g1,g2,map,isVisited)) return 1;

else if(compare(g2,g1,map,isVisited2)) return -1;

return 0;

}

public boolean compare(int now,int target,Map<Integer,List<Integer>> map,int[] isVisited){

if(now == target) return true;

isVisited[now] = 1;

if(map.get(now)==null) return false;

int size = map.get(now).size();

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

int next = map.get(now).get(i);

if(isVisited[next]==1) continue;

if (compare(next,target,map,isVisited)) return true;

}

return false;

}

}