



United International University

Department of Computer Science and Engineering

CSE 2216/CSI 218 (F): Data Structure Laboratory/Data Structure and Algorithms I Laboratory

Trimester: Spring 2023

Final (Implementation), Total Marks: **15**, Total Time: **1 Hour**

Problem Statement: Mr. Arijit tries to create a particular type of graph every day. He named the particular type of graph **Gráfico no completamente conectado**. A **Gráfico no completamente conectado** is a graph where every vertices is not reachable from each vertex. That means if you start traversing the graph from any vertex, you can not reach all the vertices of the graph.

As Mr. Arijit is too lazy to check whether the graph he makes every day is a **Gráfico no completamente conectado**, he wants you to write a program for him so that he can easily check whether the graph is his desired graph or not.

Input: The first line of the input contains two integers, the number of vertexes (V) and the number of edges (E). The next E line contains information about the edges. Each of the next E lines contains, a pair of vertices (f, t) that represents that there is a direct edge from f to t.

Please note that Mr. Arijit always builds directed graphs as he doesn't like undirected graphs.

Output: Print **Gráfico no completamente conectado**, if the graph maintains the condition that mentioned above, otherwise, print **Gráfico no no completamente conectado**.

Input	Output
5 5 0 1 2 1 2 3 4 1 4 3	Gráfico no completamente conectado
5 5 0 2 1 0 4 1 4 2 4 3	Gráfico no no completamente conectado

Explanation of sample input output: In the first test case, you can not reach every vertex if you start traversing from any vertex, that's why it is a **Gráfico no completamente conectado**. On the other hand, in the second test case, you can not reach all the vertices if you start traversing from any vertex except vertex 4. That is why it is a **Gráfico no no completamente conectado**.