# Problem G Friendship Game Time limit: 1.5 second Memory: 1024 megabytes

## **Problem Description**

On this beautiful day, with no moon, no stars, no clouds, no rain, neither hot nor cool, nor cold, and not stuffy either, *Nhat Tang* has decided to create a friendship game. The game is as follows: "*Nhat Tang* will create a list of players in the main group consisting of N people, numbered from 1 to N, and a group of outsiders who will guess and provide answers. If the outsiders answer all his questions correctly, both groups will be rewarded by him.

There are **M** time points; at the  $i^{th}$  time point ( $O < i \leq M$ ), he can perform two actions:

- 1. Merge all players from team **x** into team **y**.
- 2. Ask whether player **x** is on the same team as player **y**.

The game may seem simple, but as more and more friends want to join, the number of players has reached up to *a billion*, making it difficult for the remaining group to provide answers when *Nhat Tang* asks. So, if you want to join this game and earn praise, solve this problem!

#### Input:

- The first line: Two positive integers N and M (where  $N \le 10^9$  and  $M \le 10^6$ ).
- The next M lines each contain three integers q, x, y (where  $O < x, y \le N$ ).
  - For q = 0: Perform the first action (merge teams).
  - For q = 1: Perform the second action (check team membership).

### **Output:**

• For each operation where **q** = 1, print **YES** if they are on the same team, otherwise print **NO**.

#### **Example:**

INPUT	OUTPUT
5 5	NO
023	YES
015	YES
142	
132	
144	