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 $\mathbf{i^{th}}$ time point ($\mathbf{0 < i \leq M}$), 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 $\mathbf{N \leq 10^9}$ and $\mathbf{M \leq 10^6}$).
- The next **M** lines each contain three integers **q, x, y** (where $\mathbf{0 < x, y \leq N}$).
    - 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 0 2 3 0 1 5 1 4 2 1 3 2 1 4 4	NO YES YES