

Problem E. Easy Compare-and-Set

Time limit: 2 seconds
Memory limit: 512 megabytes

Let us define “Compare-and-Set” operation for a global variable v . The operation checks if the variable is equal to a . If that’s true, the variable value changes to b and the operation succeeds. Otherwise, the variable doesn’t change and the operation fails. Let us denote the operation as $\text{CAS}(a, b)$.

Imagine that you are given a list of such operations $\text{CAS}(a_1, b_1), \dots, \text{CAS}(a_n, b_n)$. Also, you are given an initial value for the variable, c , and a list of wishes w_1, \dots, w_n , where w_i tells whether the operation $\text{CAS}(a_i, b_i)$ should be successful. Your task is to determine the order of operations execution so that all the wishes are satisfied.

Input

The first line contains two integers n and c ($1 \leq n \leq 10^5$; $1 \leq c \leq 10^9$) — the number of operations and the initial value of the variable.

Each of the next n lines contains three integers a_i, b_i, w_i ($1 \leq a_i, b_i \leq 10^9$; $0 \leq w_i \leq 1$), denoting $\text{CAS}(a_i, b_i)$ operation that you wish to be successful if $w_i = 1$ and unsuccessful if $w_i = 0$. The operations are numbered from 1 to n in order of input.

Output

If no correct order of operations exists, output a single word “No”.

Otherwise, output a word “Yes” followed by n distinct integers p_1, p_2, \dots, p_n ($1 \leq p_i \leq n$), meaning that operation p_1 should be executed first, then operation p_2 , and so on. If there are several possible orders, output any of them.

Examples

standard input	standard output
4 1 1 2 0 1 2 1 2 3 1 3 4 0	Yes 4 2 1 3
3 1 1 2 1 1 2 1 1 2 0	No