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# B. Interesting Array

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

We'll call an array of n non-negative integers a[1], a[2], ..., a[n] interesting, if it meets m constraints. The i-th of the m constraints consists of three integers  $l_i, r_i, q_i$   $(1 \le l_i \le r_i \le n)$  meaning that value  $a[l_i]$  &  $a[l_i+1]$  & ... &  $a[r_i]$  should be equal to  $q_i$ .

Your task is to find any *interesting* array of n elements or state that such array doesn't exist.

Expression x&y means the bitwise AND of numbers x and y. In programming languages C++, Java and Python this operation is represented as "&", in Pascal — as "and".

#### Input

The first line contains two integers n, m ( $1 \le n \le 10^5$ ,  $1 \le m \le 10^5$ ) — the number of elements in the array and the number of limits.

Each of the next m lines contains three integers  $l_i$ ,  $r_i$ ,  $q_i$  ( $1 \le l_i \le r_i \le n$ ,  $0 \le q_i \le 2^{30}$ ) describing the i-th limit.

## Output

If the *interesting* array exists, in the first line print "YES" (without the quotes) and in the second line print n integers a[1], a[2], ..., a[n] ( $0 \le a[i] \le 2^{30}$ ) decribing the *interesting* array. If there are multiple answers, print any of them.

If the interesting array doesn't exist, print "NO" (without the quotes) in the single line.

#### **Examples**

input	Сору
3 1 1 3 3	
output	Сору
YES 3 3 3	

input	Сору
3 2 1 3 3 1 3 2	
output	Сору
NO	

## Codeforces Round #275 (Div. 1)

### **Finished**

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# → **Problem tags**

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## → Contest materials

- Announcement
- Tutorial

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