# **COLORFUL ARRAY**

You have been given an array of **n** unpainted elements. By unpainted, we mean that each element initially has a value of **0**. You have to process **q** queries of the form **I r c**, in which you paint all the elements of the array from index **I** to index **r** with color **c**. Assume that, each new color currently being applied to an element overrides its previous color. Output the color of each element after all the queries have been processed.

**Note**: The problem is guaranteed to be solved using C or C++ programming language.

## Input

The first line of input consists of two integers n and q. Next q lines consists of 3 integers I, r and c denoting the starting index, ending index and the color respectively.

- 1 <= **n** <= 200000
- 1 <= **q** <= 200000
- 1 <= I <= r <= n
- 1 <= **c** <= 1 000 000 000

### **Output**

Output the final color of each element starting from index 1 on a new line.

### **Example**

#### Input

43

132

246

237

#### **Output:**

2

7

7 6

### Input

10 5

3913

149

2 10 14

2710

6 9 44

#### Output

9

10

10

10 10

44

44