

HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

STEP 1 STEP 2 STEP 3 STEP 4 | THEORY PRACTICE | SUBMIT SUBMISSIONS HACKS STANDINGS CUSTOM INVOCATION ITMO Academy: pilot course » Segment Tree, part 2 » Step 3 » Practice

## A. Assignment and Maximal Segment

time limit per test: 1 second memory limit per test: 1024 megabytes input: standard input output: standard output

There is an array of n elements, initially filled with zeros. You need to write a data structure that processes two types of queries:

- assign value  $\emph{v}$  to all elements on the segment from  $\emph{l}$  to  $\emph{r}-1$ ,
- find the segment with maximal sum.

## Input

The first line contains two numbers n and m ( $1 \le n, m \le 100000$ ), the size of the array and the number of operations. The following lines contain the description of the operations. The description of each operation is as follows:  $l\ r\ v$ : assign the value v to all elements on the interval from l to r-1 ( $0 \le l < r \le n$ ,  $-10^9 \le v \le 10^9$ ).

## **Output**

Print m lines: the maximum sum of numbers on a segment after each operation. Please note that this segment may be empty (so the sum on it will be equal to 0).

## **Example**

input	Сору
5 3	
0 5 3	
1 3 -1	
3 4 -5	
output	Сору
15	
7	
3	

Codeforces (c) Copyright 2010-2024 Mike Mirzayanov
The only programming contests Web 2.0 platform
Server time: Jun/29/2024 14:31:04 (g1).
Desktop version, switch to mobile version.

Privacy Policy

Supported by





