

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

## B. Inverse and K-th one

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

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

- change the value of all elements on a segment from l to r-1 to the opposite,
- find the index of the k-th one.

## 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:

- 1 l r: change the value of all elements on a segment from l to r-1 to the opposite ( $0 \le l < r \le n$ ),
- 2 k: the index of the k-th one (ones are numbered from 0, it is guaranteed that there are enough ones in the array).

## **Output**

For each operation of the second type, print the index of the corresponding one (all indices in this problem are from 0).

## **Example**

input	Сору
5 7	
1 1 3	
2 1	
1 0 2	
2 0	
2 1	
1 0 5	
2 2	
output	Сору
2	
0	
2	
4	

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

Privacy Policy

Supported by





