

B. Applying MAX to 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:

- for all i from l to $r - 1$ do the operation $a_i = \max(a_i, v)$,
- find the current value of element i .

Input

The first line contains two numbers n and m ($1 \leq n, m \leq 100000$), 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 $l\ r\ v$: for all i from l to $r - 1$ do the operation $a_i = \max(a_i, v)$ ($0 \leq l < r \leq n, 0 \leq v \leq 10^9$).
- 2 i : find the value of the element with index i ($0 \leq i < n$).

Output

For each operation of the second type, print the corresponding value.

Example

input	Copy
5 5 1 0 3 3 2 1 1 2 4 4 2 3 2 4	
output	Copy
3 4 0	

→ Submit?

Language: GNU G++20 13.2 (64 bit, win ▼)

Choose file: Choose File No file chosen

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