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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:

- ullet 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 ($1 \le n, m \le 100000$), 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 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 ($0 \le i < n$).

Output

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

Example

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

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