

E. Assignment and Minimum

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

→ Submit?

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

Choose file: Choose File No file chosen

Submit

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 v to all elements on the segment from l to $r - 1$,
- find the minimum on the segment from l to $r - 1$.

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 $l\ r\ v$: assign value v to all elements on the segment from l to $r - 1$ ($0 \leq l < r \leq n, 0 \leq v \leq 10^9$).
- 2 $l\ r$: find the minimum on the segment from l to $r - 1$ ($0 \leq l < r \leq n$).

Output

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

Example

input	Copy
5 6 1 0 3 3 2 1 2 1 1 4 4 2 1 3 2 1 4 2 3 5	
output	Copy
3 4 4 0	

Supported by

