## INFORMACIJE

Mirko was bored, so he took a piece of paper and wrote down a sequence $\mathbf{A}$ of length $\mathbf{N}$, which contains each positive integer between 1 and $\mathbf{N}$, inclusive, exactly once. After that, he took another piece of paper and wrote down $\mathbf{M}$ descriptions of the sequence $\mathbf{A}$.

Each description has one of the following formats:
$\mathbf{1 x y v}$ - the largest number in positions between $\mathbf{x}$ and $\mathbf{y}$ (inclusive) equals $\mathbf{v}$
$\mathbf{2 x y} \mathbf{v}$ - the smallest number in positions between $\mathbf{x}$ and $\mathbf{y}$ (inclusive) equals $\mathbf{v}$

Then Slavko came, saw, and stole the first paper. Mirko is desperate and has asked you to find some sequence matching the descriptions, not necessarily equal to the original sequence.

## INPUT:

The first line of input contains two positive integers, $\mathbf{N}(1 \leq \mathbf{N} \leq 200)$, the length of the sequence, and $\mathbf{M}(0 \leq \mathbf{M} \leq 40000)$, the number of descriptions.

Each of the following $\mathbf{M}$ lines contains a description as described above.

## OUTPUT:

The first and only line of output must contain a sequence of $\mathbf{N}$ space-separated positive integers (matching the descriptions and containing all positive integers from $\mathbf{1}$ to $\mathbf{N}$ ), or -1 if no such sequence exists.

## SAMPLE TESTS:

| Input | Output |  |
| :--- | :--- | :--- |
| 32 | 123 |  |
| 11111 |  |  |
| 2222 |  |  |
| 42 | 11 |  |

2341

1233
2454

