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F. Assignment and Sum

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:

- assign value v to all elements on the segment from l to r-1,
- find the sum on the segment from l to r-1.

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

Output

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

Example

input	Сору
5 6	
1 0 3 3	
2 1 2	
1 2 4 4	
2 1 3	
2 1 4	
2 3 5	
output	Сору
3	
7	
11	
4	

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