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## B. Add Arithmetic Progression On Segment

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

You are given an array x, consisting of n elements equal to 0, and m queries of two types:

- add an arithmetic progression to a segment: the query is described with four integers l, r, a, d for each  $l \leq i \leq r$  you should perform  $x_i + = a + d \cdot (i l)$ ;
- print current value of a given element.

## Input

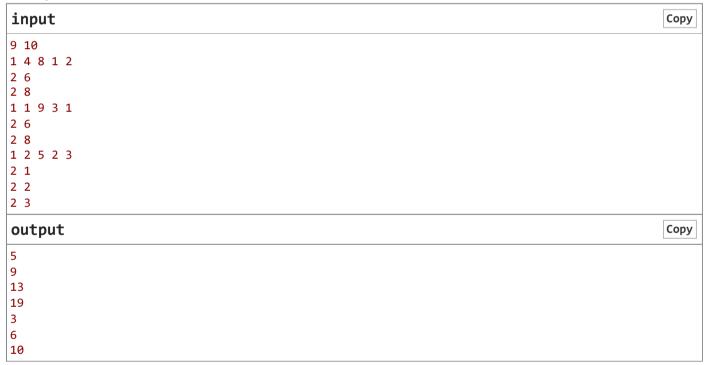
The first line contains two integers n,m ( $1 \leq n,m \leq 2 \cdot 10^5$ ).

The next m lines describe queries. Each line starts with integer t ( $1 \le t \le 2$ ) — type of the operation. For operations of the first type, four integers follow: l, r, a, d ( $1 \le l \le r \le n, 1 \le a, d \le 2 \cdot 10^5$ ). For operations of the second time one integer between 1 and n follows.

## **Output**

For each query of the second type, print the answer.

## Example



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