# range\_update\_query

You have an array A of size N  $\langle$ = 100000, initially every element is zero.

You have to process  ${f Q}$  queries, each is one of the following

"add x y k" - add k to A[i] for every i between x and y "query x y" - print A[x] + A[x+1] + ... + A[y]

### Input:

ΝО

The next Q lines are queries as mentioned above

#### Output:

The result of each "query" type queries, seperated by a space

## Sample Input 1:

10 4

add 1 2 2

add 2 5 2

query 1 4

query 1 5

## Sample Output 1:

10 12

#### Notes:

Everything fits in 64-bit integer. The array A is one-indexed N, Q <= 100000