## Filling Jars

Animesh has $n$ empty candy jars, numbered from 1 to $n$, with infinite capacity. He performs $m$ operations. Each operation is described by 3 integers, $a, b$, and $k$. Here, $a$ and $b$ are indices of the jars, and $k$ is the number of candies to be added inside each jar whose index lies between $a$ and $b$ (both inclusive). Can you tell the average number of candies after $m$ operations?

## Example

$n=5$
operations $=[[1,2,10],[3,5,10]]$
The array has 5 elements that all start at 0 . In the first operation, add 10 to the first 2 elements. Now the array is $[10,10,0,0,0]$. In the second operation, add 10 to the last 3 elements ( $3-5$ ). Now the array is $[10,10,10,10,10]$ and the average is 10 . Sincd 10 is already an integer value, it does not need to be rounded.

## Function Description

Complete the solve function in the editor below.
solve has the following parameters:

- int $n$ : the number of candy jars
- int operations[m][3]: a 2-dimensional array of operations


## Returns

- int: the floor of the average number of canidies in all jars


## Input Format

The first line contains two integers, $n$ and $m$, separated by a single space. $m$ lines follow. Each of them contains three integers, $a, b$, and $k$, separated by spaces.

## Constraints

$3 \leq n \leq 10^{7}$
$1 \leq m \leq 10^{5}$
$1 \leq a \leq b \leq N$
$0 \leq k \leq 10^{6}$

## Sample Input

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$\mathrm{n}=5$, operations[] size $=3$
operations $=[[1,2,100],[2,5,100],[3,4,100]]$

## Sample Output

```
1 6 0
```


## Explanation

Initially each of the jars contains 0 candies
$0 \quad 0 \quad 0 \quad 0 \quad 0$

First operation:

```
100 100 0 0 0
```

Second operation:

```
100 200 100 100 100
```

Third operation:

```
100 200 200 200 100
```

Total $=800$, Average $=800 / 5=160$

