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 index 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?

**Input Format**   
The first line contains two integers *N* and *M* separated by a single space.   
*M* lines follow. Each of the *M* lines contain three integers *a, b* and *k* separated by single space.

**Output Format**   
A single line containing the average number of candies across *N* jars, *rounded down* to the nearest integer.

**Note**   
*Rounded down* means finding the greatest integer which is less than or equal to given number. Eg, *13.65* and *13.23*is rounded down to *13*, while *12.98* is rounded down to *12*.

**Constraints**   
3 <= *N* <= 107   
1 <= *M* <= 105   
1 <= *a* <= *b* <= *N*   
0 <= *k* <= 106

**Sample Input #00**

5 3

1 2 100

2 5 100

3 4 100

**Sample Output #00**

160

**Explanation**   
Initially each of the jar contains 0 candies

0 0 0 0 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