# **Special Blessing to Players**

BCCI is really angry with players for showing such a disastrous performance. They have called all the players to a special temple where they asked them to stand in a straight line. There were "N" players in the temple. BCCI marked their positions as 0, 1, 2 upto N-1. After that they called Mr. Aloknath to give them blessings. He chooses two integers X and Y (X<=Y), and gives "K" units of blessings to all the players standing at positions between X and Y (inclusive). He repeats this process "M" no. of times. Can you tell us what will be the total units of blessings each player will have in the end?

### Input

The first line contains two integers "N" and "M". Each of the next "M" lines will contain three integers X, Y and K.

# Output

Output "N" integers Ai ( $0 \le i < N$ ) in separate lines where Ai is the units of blessings player standing at position i will have in the end.

## Constraints

- 1 <= N <= 10^6
- 1 <= M <= 10^5
- 0 <= A <= B <= N-1
- 0 <= K <= 1000

# Example

#### Input:

- 55
- 043
- 021
- 130
- 142
- 223

#### Output:

- 4
- .
- 6
- 9