## Problem A. Soldier and Bananas

**Time limit** 1000 ms **Mem limit** 262144 kB

A soldier wants to buy w bananas in the shop. He has to pay k dollars for the first banana, 2k dollars for the second one and so on (in other words, he has to pay  $i \cdot k$  dollars for the i-th banana).

He has n dollars. How many dollars does he have to borrow from his friend soldier to buy w bananas?

## Input

The first line contains three positive integers k, n, w ( $1 \le k$ ,  $w \le 1000$ ,  $0 \le n \le 10^9$ ), the cost of the first banana, initial number of dollars the soldier has and number of bananas he wants.

## Output

Output one integer — the amount of dollars that the soldier must borrow from his friend. If he doesn't have to borrow money, output 0.

## Sample 1

Input	Output
3 17 4	13