



HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

# A. Soldier and Bananas

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

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.

### **Examples**

input	Сору
3 17 4	
output	Сору
13	

# Codeforces Round #304 (Div. 2). Finished Practice

## → Virtual participation

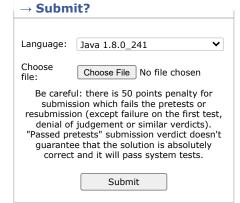
Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

### → Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest



→ Last submissions		
Submission	Time	Verdict
132489394	Oct/20/2021 07:02	Accepted
132489252	Oct/20/2021 06:59	Wrong answer on test 1





Codeforces (c) Copyright 2010-2021 Mike Mirzayanov The only programming contests Web 2.0 platform Server time: Oct/20/2021 00:03:30<sup>UTC-4</sup> (g2).

Desktop version, switch to mobile version.

Privacy Policy

Supported by



