

My Maya

Owl Code



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Points: 40

Submissions: 4160



Light



Description

Endless Appetizers

Program Description

Life is a like a box of of mozzarella sticks. You never know what you're gonna get, but you can predict with 100 percent accuracy that it will be a mozzarella stick.

Aditya's colleague issued a challenge to Aditya: "If you eat more than x mozzarella sticks, I'll give you 30 rupees for each extra one you eat".

For example, if $X=5$ and Aditya eats 8 sticks, he would receive 90 rupees because he ate 3 extra sticks.

You know that the restaurant serves y mozzarella sticks per plate.

You also know that Aditya received r rupees from his colleague as a result of the challenge.

What's the **maximum** number of plates of mozzarella sticks that Aditya could have ordered? **Note:** Aditya won't order a new plate till he finishes eating all the sticks from the previous one. However, it's possible that Aditya didn't finish all the sticks from the final plate he ordered.

Input Format

A single line of input, containing three space-separated integers X,Y and R — the lower limit on the number of sticks, the number of sticks on a single plate, and the money received by Aditya.

Output Format

Print the maximum number of plates Aditya could have ordered.

Constraints

$1 \leq X \leq 100$ $1 \leq Y \leq 10$ $0 \leq R \leq 3 \cdot 10^4$ It is guaranteed that R is a multiple of 30.

Explanation

For input1: Aditya received 30 rupees i.e. he ate 1 extra stick.

Since $X = 7$, this means he must've eaten exactly 8 sticks. At 5 sticks per plate, Aditya would need 2 plates to eat 8 sticks (and two sticks from the second plate will remain uneaten).

C - GCC 11.1.0 ▾



Timer 0:08 sec



Light



```
1  #include <stdio.h>
2  int main()
3  {
4      int X,Y,R;
5      scanf("%d %d %d", &X, &Y, &R);
6      int extra = R / 30;
7      int total = X + extra;
8      int plates = (total + Y - 1) / Y;
9      printf("%d", plates);
10     return 0;
11 }
```

 Run Code

Compiler Response

#	Testcase	Input	Expected Output	Your Output	Memory	CPU time	Result
1	7 5 30	7 5 30	2	2	1408 KB	3.627 ms	Pass
2	16 5 0	16 5 0	4	4	1408 KB	2.610 ms	Pass

All hidden testcases passed



Contact

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