DMOPC '18 Contest 2 P0 - Mimi and Video Games

Time limit: 2.0s   **Memory limit:** 64M

Mimi is playing her favourite video game, Enur Yrotcaf 4.

In this game, you own an $N \times N$ field, and can water an $i \times i$ square of plants at the cost of $\alpha \times i$ EP (Enur Points).

Given that Mimi has R EP, what is the largest square of plants that she can water?

Constraints

$1 \le N, \alpha, R \le 1\,000\,000\,000$

Input Specification

The only line of input will have 3 space-separated integers, N, α and R.

Output Specification

The largest i less than or equal to N such that Mimi can water a field of size $i \times i$ or 0 if she cannot water any field.

Sample Input 1

```
5 3 6
```

Sample Output 1

```
2
```

Sample Input 2

```
5 3 30
```

Sample Output 2

5