## Problem I. Rise of Shadows

Input file: standard input
Output file: standard output

Azeroth is a world full of fantasy. In Azeroth, there are H hours in a day and M minutes in an hour.

You found a clock made from Azeroth. The clock has two hands — the hour hand and the minute hand. The two hands point to the same direction at the start of a day. Either hand rotates at a constant speed. The hour hand goes around a full circle in H hours and the minute hand goes around a full circle in M minutes. Surprisingly, it is night in Azeroth if and only if the angle between the two hands is less than or equal to  $\alpha$ .

Now you're wondering, given  $\alpha = \frac{2\pi A}{HM}$ , how many integral moments (i.e., integer minutes since the start of the day) are there, such that the angle between the two hands is less than or equal to  $\alpha$ .

## Input

The only line of the input contains three integers H, M ( $2 \le H, M \le 10^9$ ) and A ( $0 \le A \le \frac{HM}{2}$ ), representing the number of hours in a day and the number of minutes in an hour, and the limit of the angle in radians, respectively.

## Output

Print an integer representing the answer.

## **Examples**

standard input	standard output
5 5 4	9
3 5 1	3