## Problem I. Rise of Shadows

$\begin{array}{ll}\text { Input file: } & \text { standard input } \\ \text { Output file: } & \text { standard output }\end{array}$
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 $\alpha=\frac{2 \pi A}{H M}$, 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 $H, M\left(2 \leq H, M \leq 10^{9}\right)$ and $A\left(0 \leq A \leq \frac{H M}{2}\right)$, 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 |

