As we know, finding a rational close to a given rational is straightforward. The minimal distance between two distinct integers is 1 . By contrast, there is no minimal distance between two distinct rationals. A straightforward method for finding a rational close to a given rational $a / b$ is based on the following construction. For every $m>0$ one has $a / b=(a m) /(b m)$, and the neighbors $(a m \pm 1) /(b m)$ lie at distance $1 /(b m)$ from the given rational. So, by choosing $m$ to be sufficiently large, one can make the distance to be as small as we please.

Given a rational $a / b$ and an upper bound $n$ for the distance, the problem consists to find the rational $c / d$ such that:
(i) $a / b<c / d$;
(ii) the distance between the rationals $a / b$ and $c / d$ is smaller or equal than $n$;
(iii) the denominator $d$ is as small as possible.

## Input

The input will contain several test cases, each of them consisting of two lines.
The first line of the input contains two positive integers $a$ and $b$ which define the rational number $a / b$. The integers $a$ and $b$ are assumed to be in the interval $[1,100000]$. The second line contain a positive real number $n, 0.00000001 \leq n \leq 0.1$, which gives the maximum distance allowed.

## Output

For each test case, write to the output, on a line by itself, the two positive integers $c$ and $d$ which solve the problem.

## Sample Input

96145
0.0001

## Sample Output

4974

