## GCD Exploration

Professor Numerico is going big this time. First, he selects three numbers: $N$, $a$, and $b$. Then he builds number $A$ by repeating $N a$ times, and builds number $B$ by repeating $N b$ times. For example, if $N=123, a=2$, and $b=3$, then $A=123123$ and $B=123123123$.

After building the two numbers, he gives them to Dumdum and asks him to find the greatest common divisor (GCD) of $A$ and $B$. Dumdum isn't sure how to approach the problem and needs your help!

## Input Format

A single line containing three space-separated positive integers: $N, a$, and $b$.

## Constraints

All numbers are positive and less than or equal to $10^{18}$.

## Output Format

Print the GCD of $A$ and $B$ on a single line. The length of the result will not exceed $10^{6}$.
Sample Input

12323

Sample Output

123

## Explanation

123 is the greatest common divisor of both 123123 and 123123123 .

