Divisor game

Problem Description

Scooby has 3 three integers A, B and C.

Scooby calls a positive integer special if it is divisible by B and it is divisible by C.

You need to tell number of special integers less than or equal to A.

Problem Constraints

1 &lt;= A, B, C &lt;= 109

Input Format

First argument is a positive integer A

Second argument is a positive integer B

Third argument is a positive integer C

Output Format

One integer corresponding to the number of special integers less than or equal to

A.

Example Input

Input 1:

A = 12

B = 3

C = 2

Input 2:

A = 6

B = 1

C = 4

Example Output

Output 1:

2

Output 2:

1

Example Explanation

Explanation 1:

The two integers divisible by 2 and 3 and less than or equal to

12 are 6,12.

Explanation 2:

Only 4 is a positive integer less than equal to 6 which is

divisible by 1 and 4.

Enumerating GCD

Problem Description

You are given a number A and a number B. Greatest Common Divisor (GCD) of all

numbers between A and B inclusive is taken (GCD(A, A+1, A+2 ... B)).

As this problem looks a bit easy, it is given that numbers A and B can be in the

range of 10100.

You have to return the value of GCD found.

Greatest common divisor of 2 numbers A and B is the largest number D that

divides both A and B perfectly.

Problem Constraints

1 &lt;= A &lt;= B &lt;= 10100

Input Format

First argument is a string denoting A.

Second argument is a string denoting B.

Output Format

Return a string which contains the digits of the integer which represents the GCD.

The returned string should not have any leading zeroes.

Example Input

A = &quot;1&quot;

B = &quot;3&quot;

Example Output

1

Example Explanation

Greatest divisor that divides both 1 and 3 is 1.