## GCD!!!

You are given two number.Find out the Greatest Common Divisior or GCD.Let's see how we can determine GCD of two numbers.
$n=\min (m, n)$;
if $m=20$ and $n=5$, then $\min (m, n)=5$; Now there are only 5 from 1 to $n$, who is divisior of both $(20$ and 5$) . \operatorname{So} \operatorname{gcd}(20,5)=5$.
Attention: Do not use any library function.

## Input

Every line wil contain two number $m, n\left(1<=m, n<=10^{\wedge} 18\right)$.
$\mathrm{m}, \mathrm{n}=0$ will terminate the programme.

## Output

Print the GCD of two number.

## Example

Input:
56

39
102
00

## Output:

1

3

2

