- **EASY**

- **Max Score: 30 Points**

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HCF of two Numbers

Given two number `a` and `b`, find their HCF.

What Is HCF?

HCF or Highest Common Factor is the greatest common divisor between two numbers.

Input Format

The first line of input contains the integers `a` and `b`.

Output Format

The output should be the hcf of `a` and `b`.

Example 1

Input

`75 90`

Output:

`15`

Explanation

75 = 3 * 5 * 5 and 90 = 2 * 3 * 3 * 5. So the common factors are 3*5 = 15.

Example 2

Input

25 50

Output

25

Explanation

25 = 5 * 5 and 50 = 2 * 5 * 5. So the common factors are 5*5 = 25.

Constraints

1 <= n <= 10^9

My code

```
// in java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
    public static void main (String[] args) throws java.lang.Exception
    {
```

```java
        //your code here
Scanner s=new Scanner(System.in);
int n=s.nextInt();
int m=s.nextInt();
while(m!=n)
  {
    if(m>n)
      m=m-n;
    else
      n=n-m;
  }
System.out.print(m);
  }
}
```