https://course.acciojob.com/idle?question=07b30403-d04c-42f7-b610-8d5d3cac4b15

- MEDIUM
- Max Score: 40 Points

Largest Coprime Divisor

You are given two positive numbers A and B. You need to find the maximum valued integer X such that:

X divides A i.e. A % X = 0

X and B are co-prime i.e. gcd(X, B) = 1

Input Format

First Line contains two integer A and B separated by space.

Output Format

Print the maximum valued integer X which satisfies the above properties.

Example 1

Input

```
30 12
```

Output

```
5
```

Explanation

Largest Co-Prime divisor of 30 and 12 is 5

Example 2

Input

```
10 20
```

Output

```
5
```

Explanation

Largest Co-Prime divisor of 10 and 20 is 5

Constraints

```
1 <= A, B <= 1e9
```

Topic Tags

- Math

My code

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

public class Main
{
  static int gcd(int a,int b)
  {
```

```
    return b==0?a:gcd(b,a%b);
  }
        public static void main (String[] args) throws
java.lang.Exception
        {
                //your code here
       Scanner s=new Scanner(System.in);
       int  a=s.nextInt();
       int  b=s.nextInt();
      int x=0;
       if(gcd(a,b)==1)
       { System.out.print(a); return;}
       while(gcd(a,b)!=1)
         {
           a=a/gcd(a,b);
           x=a;
         }
       System.out.print(x);
         }
}
```