

<https://course.acciojob.com/idle?question=d637438f-eed9-4c89-93a1-659502345b25>

● EASY

● Max Score: 30 Points

GCD Using Recursion

You are given two non-negative integers. Calculate the GCD of these numbers using recursion.

Your task is to complete the function `findGCD` which receives two parameters `A` and `B` and returns the GCD of these numbers.

Input Format

The first line of input contains two space separated integers `A` and `B`.

Output Format

The only line of the output should contain the GCD of `A` and `B`.

Example 1

Input

12 8

Output

4

Example 2

Input

5 7

Output

1

Example 3

Input

5 0

Output

5

Constraints

$0 \leq A \leq 10^9$

$0 \leq B \leq 10^9$

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)
    {
        if(a==b)
            return a;
        if(a>b) return gcd(a-b,b);
        return gcd(a,b-a);
    }
    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 ans=gcd(a,b);
        System.out.print(ans);
    }
}
```