C++

#include<stdio.h>

int main()

{

int a,b,r;

scanf("%d %d",&a,&b);

r=a%b;

while(r)

{

a=b;

b=r;

r=a%b;

}

printf("%d\n",b);

return 0;

}

C

#include <stdio.h>

int gcd(int a,int b)

{

if(a<b)

return gcd(b,a);

if(a%b==0)

return b;

return gcd(b,a%b);

}

int main()

{

int a,b;

scanf("%d%d",&a,&b);

printf("%d\n",gcd(a,b));

return 0;

}

JAVA

import java.util.\*;

public class Main{

static int gcd(int a,int b){

int m ,n,r;

m=b;

n=a;

r=m%n;

while(r!=0){

m=n;

n=r;

r=m%n;

}

return n;

}

public static void main(String args[]){

Scanner aa=new Scanner(System.in);

int e=aa.nextInt();

int k=aa.nextInt();

System.out.print(gcd(e ,k)) ;

}

}