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/*C Program to implement Euclid's Algorithm
Input: Two integers (a,b)
Output: GCD of a and b
*/
#include<stdio.h>
int Euclid(int,int);
int main()
{
     int a, b, gcd;
     printf("\n\ I \ want to find the GCD of two numbers.\n\n");
     printf(" What are those two numbers?\n ");
     scanf("%d%d",&a,&b);
     gcd = Euclid(a,b);
printf("\n----\n");
     printf(" GCD of %d and %d is %d",a,b,gcd); SCORE BETTER
     return 0;
}
int Euclid(int a, int b)
{
  int temp;
  if(a<0)
              //Treat negative integer just like positive integer
  a = abs(a); //Either way the answer will be same because we are finding
greatest factor and it will be positive only.
  if(b<0)
  b = abs(b);
```

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if(a < b)
{
    temp =a; //If a is less than b, change their position
    a = b;
    b = temp;
}

if(b == 0)
    return a;
    else
    Euclid(b,a%b);
}</pre>
```



Sample Input and Output:

1. Both the numbers are positive

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I want to find the GCD of two numbers.

What are those two numbers?

48 32

GCD of 48 and 32 is 16

Press any key to continue...
```

2. One number is negative

```
I want to find the GCD of two numbers.

What are those two numbers?

48 -32

GCD of 48 and -32 is 16

Press any key to continue..._
```

3. Both are negative numbers.



