Code, Compile & Run

Ide

Contest Code/Name (e.g. JULY15/PRACTICE) | Problem Code/Name (e.g. TEST) | Select

C (gcc 6.3) — Code get's auto saved every second

```c
#include <stdio.h>
int gcd(int x, int y);

int main()
{
    int num1, num2, hcf, lcm;

    printf("Enter two integer Values:\n");
    scanf("%d %d", &num1, &num2);

    hcf = gcd(num1, num2);
    printf("GCD: %d", hcf);
    printf("\nLCM: %d", (num1 * num2) / hcf);
    return 0;
}
int gcd(int x, int y)
{
    if (y == 0)
    {
        return x;
    }
    else
    {
        return gcd(y, x % y);
        }
}
```

123

Open File | Custom Input | Run

Custom Input

```
10 25
```

Status Successfully executed Date 2020-07-04 05:19:40 Time 0 sec Mem 9.424 kB

Input

```
10 25
```

Output

```
Enter two integer Values:
GCD: 5
LCM: 50
```

4AL19CS070

Algorithm : (GCD)

Step 1 : start

Step 2 : Drop any negative signs

Step 3: Assign the larger to the dividend, the number to the divisor

Step 4 : Compute the quotient and remainder

Step 5 : Reassign the divisor to be the dividend, & the remainder to be the divisor

Step 6 : Repeat steps 3-4 units the remainder is zero

Step 7 : stop

Algorithm (LCD)

Step 1 : start

Step 2 : Make R/W low

Step 3 : Make RS = 0; if data byte is command
RS = 1 ; if data byte is data (ASCII value)

Step 4 : Place data byte on data register

Step 5 : Pulse E (High to low)

Step 6 : Repeat the steps to send another data byte

Flowchart :