▸ **PRACTICE**   ▸ **COMPETE**   ▸ **DISCUSS**   │   ▸ **COMMUNITY**   ▸ **HELP**   ▸ **ABOUT**

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Code, Compile & Run

| Ide ✖ | + |

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

C (gcc 6.3)   ▾   💾   🗑   Code gets autosaved every second   ⓘ ⬇ ↗ ⚙

```
 1    #include <stdio.h>
 2 ▾  int main() {
 3       int a, b, x, y, t, gcd, lcm;
 4
 5       printf("Enter two integers\n");
 6       scanf("%d%d", &x, &y);
 7
 8       a = x;
 9       b = y;
10
11 ▾    while (b != 0) {
12         t = b;
13         b = a % b;
14         a = t;
15       }
16
17       gcd = a;
18       lcm = (x*y)/gcd;
19
20       printf("Greatest common divisor of %d and %d = %d\n", x, y, gcd);
21       printf("Least common multiple of %d and %d = %d\n", x, y, lcm);
22
23       return 0;
24    }
25
```

0:0   ⟳

| **Open File** | ✓ Custom Input | **Run** |

Custom Input

8 4

| **Status** Successfully executed   **Date** 2020-06-03 13:04:57   **Time** 0 sec   **Mem** 9.424 kB | ✖ |

Input

8 4

Output

```
Enter two integers
Greatest common divisor of 8 and 4 = 4
Least common multiple of 8 and 4 = 8
```

CodeChef is a non-profit competitive programming community

CodeChef - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers

1) C program to find the HCF & LCM of two numbers.

Algorithm

Step 1 : Start

Step 2 : input x, y

Step 3 : a = x;

Step 4 : b = y;

Step 5 : while (b! = 0)

{
  t = b;
  b = a%b;
  a = t
}

Step 6 : gcd = a;

Step 7 : lcm = (x * y)/gcd

Step 8 : output gcd, lcm

Step 9 : Stop.

Flowchart