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CODECHEF
An Educational Initiative

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Pushpitha P

Username:	pushpitha2001
Country:	India
State:	Karnataka
City:	Mysuru
Student/Professional:	Student
Institution:	Alvas Institute of Engineering and Technology Karnataka, India
Teams List:	List of teams by Pushpitha P
Team Invites:	Click here to check team invites.

Rating Graphs

CodeChef	Long Challenge	Cook Off	Lunch Time

No Participation

CodeChef Rating Distribution

Division 2
Division 1
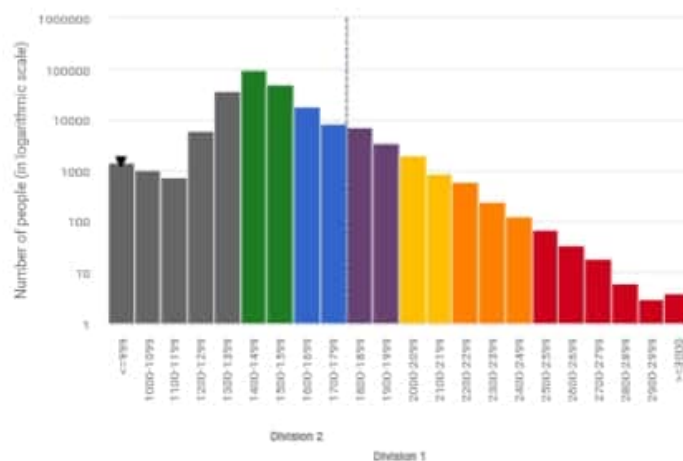
0
★

CodeChef Rating
(Highest Rating 0)

NA	NA
Global Rank	Country Rank

Contests	Rating	Global Rank	Country Rank
Long Challenge	0	NA	NA
Cook-off	0	NA	NA
Lunch Time	0	NA	NA

Recent Activity

Date/Time	Problem	Result	Lang
	No Recent Activity		

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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 auto saved every second   ℹ   ⬇   ⤢   ⚙

```c
1  #include <stdio.h>
2  int gcd(int x, int y);
3
4  int main()
5  {
6      int num1, num2, hcf, lcm;
7
8      printf("Enter two integer Values:\n");
9      scanf("%d %d", &num1, &num2);
10
11     hcf = gcd(num1, num2);
12     printf("GCD: %d", hcf);
13     printf("\nLCM: %d", (num1 * num2) / hcf);
14     return 0;
15  }
16  int gcd(int x, int y)
17  {
18      if (y == 0)
19      {
20          return x;
21      }
22      else
23      {
24          return gcd(y, x % y);
25      }
26  }
```

1:23   ↻

| **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
```

PUSHPITHA·P   F-SECTION   4AL19CS072

Algorithm for GCD

Step1 :- Drop any negative signs

Step2:- Assign the larger to the divided the smaller to be divisor

Step3:- Compute the quotient and remainder

Step4:- Reassign the divisor to be the dividend and the remainder to be the divisor

Step5:- Repeat step 3-4 until the remainder is zero

Algorithm for LCD:-

Step1 :- Make R/W low

Step2 :- RS=0, if data byte is command
RS =1, if data byte is data (ASCII value)

Step3 :- Place data byte on data register

Step4 :- Pulse E (High to low)

Step5 :- Repeat the steps to send another data byte.

Flowchart

Start

Enter x & y

Read x and y,
$a = x$; $b = y$

$b! = 0$ False

True

$temp = b$,
$b = a \% b$,
$a = temp$.

$gcd = a$.
$lcm = (x \cdot y)/gcd$.

print gcd & lcm

end.