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Alvas Institute of Engineering and ✓

2020 ▼

C(gcc 6.3) ▼

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Prajna S P

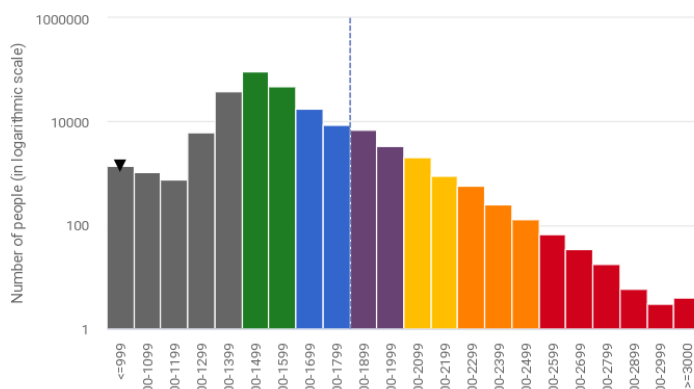|	
Username:	prajna123
Country:	India
State:	Karnataka
City:	India
Student/Professional:	Student
Institution:	Alvas Institute of Engineering and Technology Karnataka, India
Teams List:	List of teams by Prajna S P
Team Invites:	Click here to check team invites. **0**

Rating Graphs

CodeChef	Long Challenge	Cook Off	Lunch Time
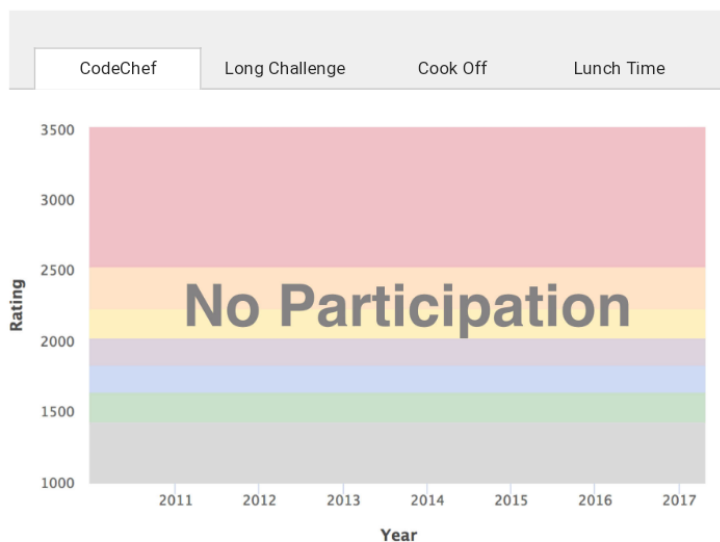
CodeChef Rating Distribution

0
★

CodeChef Rating
(Highest Rating 0)

NA	NA
Global Rank	Country Rank

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

Recent Activity

Date/Time	Problem	Result	
	No Recent Activity		

Code, Compile & Run

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

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

```c
2    int main()
3 ▾ {
4          int a, b,hcf, lcm,rem,num,deno;
5      printf("Enter two numbers\n");
6       scanf("%d\n%d",&a,&b);
7    printf("%d\n%d\n",a,b);
8    if(a>b)
9 ▾ {
10   num=a;
11   deno=b;
12   }
13   else
14 ▾ {
15   num=b;
16   deno=a;
17   }
18   rem=num%deno;
19    while(rem!=0)
20 ▾    {
21    num=deno;
22        deno=rem;
23        rem=num%deno;
24    }
25   hcf=deno;
26    lcm=(a*b)/hcf;
27    printf("hcf of %d and %d=%d\n",a,b,hcf);
28    printf("lcm of %d and %d=%d\n",a,b,lcm);
29   }
```

0:0   🔄

Open File   ✓ Custom Input   **Run**

Custom Input

```
8
20
```

Status Successfully executed   **Date** 2020-06-03 09:48:18   **Time** 0 sec   **Mem** 9.424 kB   ✕

Input

```
8
20
```

Output

```
Enter two numbers
8
20
hcf of 8 and 20=4
lcm of 8 and 20=40
```

Prajna S P (4AL19CS064)

i) Algorithm (to find HCF & LCM of 2 no.)

Step 1: Start

Step 2: Display enter the two number

Step 3: Input a, b

    if (a > b)
        num = a
        deno = b
    Else
        num = b
        deno = a

Step 4: rem = num % deno

Step 5: while (rem != 0)
        num = deno
        deno = rem
        rem = num % deno

Step 6: hcf = deno

Step 7: lcm = (a * b) / hcf

Step 8: Display hcf of %d & %d = %d
        output. a, b, hcf

Step 9: Display LCM of %d & %d = %d
        output a, b, LCM

Step 10: Stop.

flowchart :

```
                    ( Start )
                        │
                        ▼
           / Display input two number  /
          /   input a, b               /
                        │
                        ▼
   F  ◄──────────  < if (a > b) >  ──────────►  T
   │                                             │
   ▼                                             ▼
 ┌──────────┐                             ┌──────────┐
 │ num = b  │                             │ num = a  │
 │ deno = a │                             │ deno = b │
 └──────────┘                             └──────────┘
   │                                             │
   └──────────────────┬──────────────────────────┘
                      ▼
           ┌─────────────────────┐
           │ rem = num % deno    │
           └─────────────────────┘
                      │
                      ▼
   F  ◄──────  < while (rem! = 0) >  ──────►  T
   │                                           │
   │                                           ▼
   │                                  ┌──────────────────┐
   │                                  │ num = deno       │
   │                                  │ deno = rem       │
   │                                  │ rem = num%       │
   │                                  │          deno    │
   │                                  └──────────────────┘
   └──────────────────┬────────────────────────┘
                      ▼
             ┌─────────────┐
             │ hcf = deno  │
             └─────────────┘
                      │
                      ▼
          ┌──────────────────┐
          │ lcm = (a * b)/hcf│
          └──────────────────┘
                      │
                      ▼
     / Display hcf of %d & %d = %d /
    /  Output a, b, hcf            /
                      │
                      ▼
     / Display lcm of %d & %d = %d /
    /  Output a, b, lcm           /
                      │
                   ( Stop )
```