



OR

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Siddapur, Karnataka, India

☒ Student ☐ Professional ☐ Other

Alvas Institute of Engineering & Technology



2020 ▼

C(gcc 6.3) ▼

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B.H. Rashmi



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Country: India

State: Karnataka

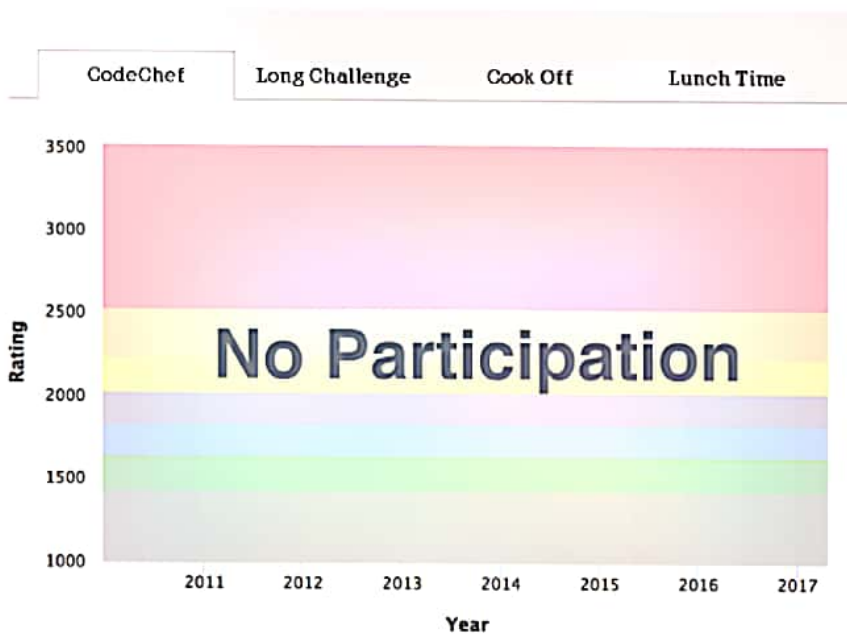
City: Siddapur

Student/Professional: Student

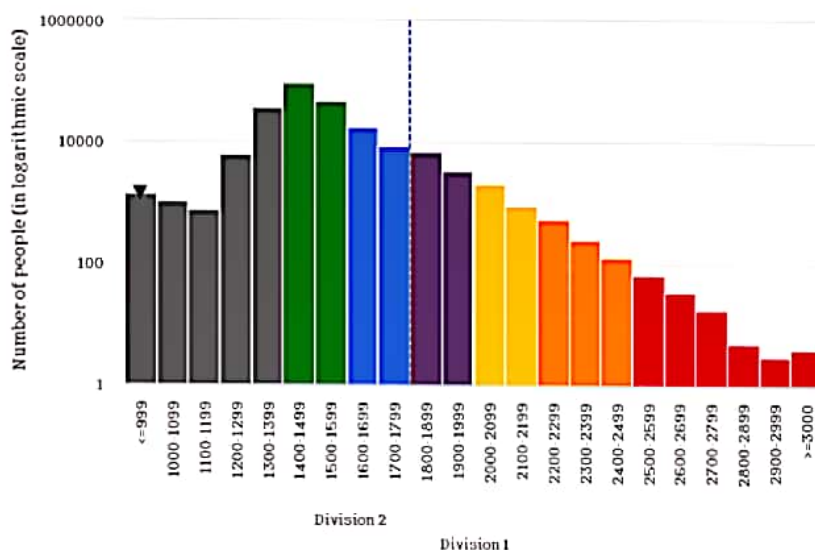
Institution: Alvas Institute of Engineering and Technology Karnataka, India

Teams List: List of [teams](#) by B.H. RashmiTeam Invites: Click [here](#) to check team invites. 0

## Rating Graphs



## CodeChef Rating Distribution



0



CodeChef Rating  
(Highest Rating 0)

NA

Global Rank

NA

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			

## 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 #define max 10
3 int a[11] = { 10, 14, 19, 26, 27, 31, 33, 35, 42, 44, 0 };
4 int b[10];
5 void merging(int low, int mid, int high)
6 {
7     int l1, l2, i; for(l1 = low, l2 = mid + 1, i = low;
8     l1 <= mid && l2 <= high; i++)
9 {
10    if(a[l1] <= a[l2]) b[i] = a[l1++];
11    else b[i] = a[l2++];
12 }
13 while(l1 <= mid) b[i++] = a[l1++];
14 while(l2 <= high) b[i++] = a[l2++];
15 for(i = low; i <= high; i++)
16 a[i] = b[i];
17 }
18 void sort(int low, int high)
19 {
20     int mid;
21     if(low < high)
22     {
23         mid = (low + high) / 2;
24         sort(low, mid);
25         sort(mid+1, high);
26         merging(low, mid, high);
27     }
28     else

```

0:0



Open File

☐ Custom Input

Run

**Status** Successfully executed **Date** 2020-07-21 14:51:23 **Time** 0 sec **Mem** 9.424 kB


### Output

```

List before sorting
10 14 19 26 27 31 33 35 42 44 0
List after sorting
0 10 14 19 26 27 31 33 35 42 44

```

## Code, Compile & Run

Ide x +

Contest Code/Name (e.g. JULY15/PRACTICE)

Problem Code/Name (e.g. TEST)

Select

C (gcc 6.3)



Code gets autosaved every second



```
18 void sort(int low, int high)
19 {
20     int mid;
21     if(low < high)
22     {
23         mid = (low + high) / 2;
24         sort(low, mid);
25         sort(mid+1, high);
26         merging(low, mid, high);
27     }
28     else
29     {
30         return;
31     }
32 }
33 int main()
34 {
35     int i;
36     printf("List before sorting\n");
37     for(i = 0; i <= max; i++)
38         printf("%d ", a[i]);
39     sort(0, max);
40     printf("\nList after sorting\n");
41     for(i = 0; i <= max; i++)
42         printf("%d ", a[i]);
43 }
44
45
```

0:0



Open File

☐ Custom Input

Run

Status Successfully executed Date 2020-07-21 14:51:23 Time 0 sec Mem 9.424 kB



### Output

```
List before sorting
10 14 19 26 27 31 33 35 42 44 0
List after sorting
0 10 14 19 26 27 31 33 35 42 44
```

Algorithm :-

step 1 :- start

step 2 :- Find the middle index of the array to divide it in two halves;

$$m = (l + r) / 2$$

step 3 :- Call Mergesort for first half;

mergesort (array, l, m)

step 4 :- Call mergesort for second half;

mergesort (array, m+1, r)

step 5 :- Recursively merge the two halves in a sorted manner, so that only

one sorted array is left;

merge (array, l, m, r)

step 6 :- stop



## Flowchart :-

