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2020 ▾

C(gcc 6.3) ▾

☑ Send me newsletter & contest invitations.

☑ I abide by CodeChef's Code Of Conduct.

Register

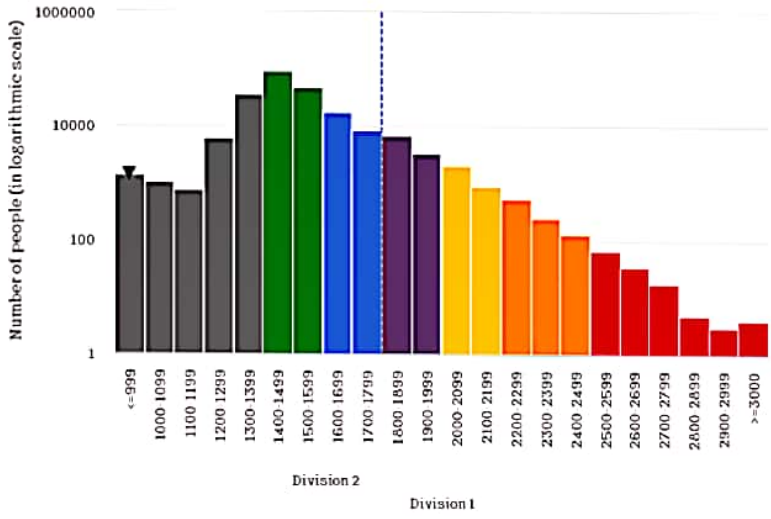
B.H. Rashmi

Username:	rashmi_2001
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. Rashmi
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 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

C (gcc 6.3)

```c
#include <stdio.h>

#define max 15

int a[11] = { 10, 14, 19, 26, 27, 31, 33, 35, 42, 44, 0 };
int b[10];

void merging(int low, int mid, int high) {
   int l1, l2, i;

   for(l1 = low, l2 = mid + 1, i = low; l1 <= mid && l2 <= high; i++) {
      if(a[l1] <= a[l2])
         b[i] = a[l1++];
      else
         b[i] = a[l2++];
   }

   while(l1 <= mid)
      b[i++] = a[l1++];

   while(l2 <= high)
      b[i++] = a[l2++];

   for(i = low; i <= high; i++)
      a[i] = b[i];
}
```

Open File

Custom Input

Run

Status: Successfully executed Date: 2020-06-17 05:34:12 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

C (gcc 6.3)

```
32
33    if(low < high)
34    {
35        mid = (low + high) / 2;
36        sort(low, mid);
37        sort(mid+1, high);
38        merging(low, mid, high);
39    } else {
40        return;
41    }
42 }
43
44 int main()
45 {
46    int i;
47
48    printf("List before sorting\n");
49
50    for(i = 0; i <= max; i++)
51        printf("%d ", a[i]);
52
53    sort(0, max);
54
55    printf("\nList after sorting\n");
56
57    for(i = 0; i <= max; i++)
58        printf("%d ", a[i]);
59 }
```

Open File

Custom Input

Run

Status: Successfully executed Date: 2020-06-17 05:34:12 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
```

C program to implement merge sort

Algorithm :-

step 1 :- start

step 2 :- MergeSort(arr[], l, r), where l is the index of the first element & r is the index of the last element.

step 3 :- If r > l

step 4 :- Find the middle index of the array to divide it in two halves.

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

step 5 :- Call Mergesort for first half :

mergesort(array, l, m)

step 6 : call mergesort for second half :

mergesort(array, m+1, r)

step 7 : Recursively, merge the two halves in a sorted manner, so that only one sorted array is left :

merge(array, l, m, r)

step 8 : Moving on with this article

step 9 : stop.

Flowchart :