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Pushpitha P



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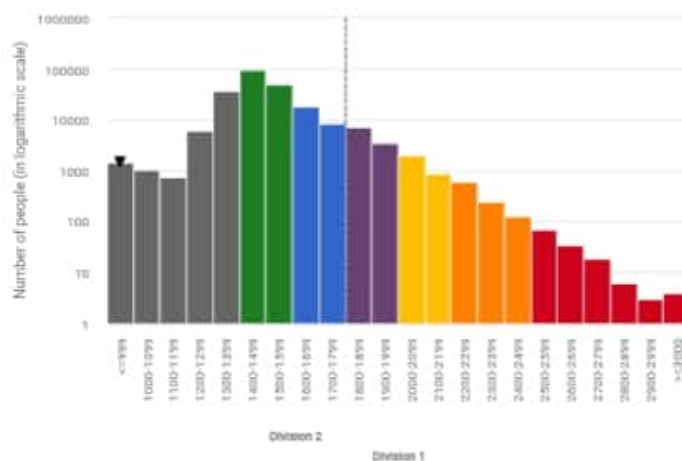
Institution: Alvas Institute of Engineering and Technology Karnataka, India

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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 |

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Ide ✕ +

C (gcc 6.3)



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

33:3



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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
```



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Ide

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C (gcc 6.3)



```
29 void sort(int low, int high)
30 {
31     int mid;
32     if(low == high)
33     {
34         mid = (low + high) / 2;
35         sort(low, mid);
36         sort(mid+1, high);
37         merging(low, mid, high);
38     } else {
39         return;
40     }
41 }
42
43 int main()
44 {
45     int i;
46     printf("List before sorting\n");
47     for(i = 0; i <= max; i++)
48         printf("%d ", a[i]);
49     sort(0, max);
50     printf("\nList after sorting\n");
51     for(i = 0; i <= max; i++)
```

333



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Run

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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
```



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Code, Compile & Run

Ide



C (gcc 6.3)



```
31 // Merge Sort
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     for(i = 0; i <= max; i++)
50         printf("%d ", a[i]);
51
52     sort(0, max);
53
54     printf("\nList after sorting\n");
55     for(i = 0; i <= max; i++)
56         printf("%d ", a[i]);
57
58 }
59 }
```

33.3



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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
```

Merge sort algorithm

Step 1 :- Start

Step 2 :- Merge sort($arr[l, 1, n]$), where l is the index of the first element & n is the index of the last element.

if $n > 1$

Step 3 :- Find the middle index of the array to divide it in two halves.

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

Step 3 :- call merge sort for first half:-
merge sort($array, l, m$)

Step 4 :- call mergesort for second half.
mergesort($array, m+1, n$)

Step 5 :- Recursively, merge the two halves in a sorted manner, so that only one sorted array is left.
merge($array, l, m, n$)

Step 6 :- Stop.

Flowchart