

All Contests > CSE-g-week2 > Recursion

Recursion

Problem Submissions Leaderboard Discussions

Write a C function to find the smallest element in an array using recursion. If length of array is zero print "NULL".

Input Format

Line1: Number of elements in array Line2:Array elements(space separated)

Constraints

0<=array.length<=1000

Output Format

Smallest element in array

Sample Input 0

```
5
3 4 5 6 9
```

Sample Output 0

3

f in

Contest ends in a day

Submissions: 17

Max Score: 6

Difficulty: Medium

Rate This Challenge:

☆ ☆ ☆ ☆ ☆

More

```
C
                                                                                                                \Diamond
1 <del>√</del> #include <stdio.h>
2 #include <stdlib.h>
3
4 int find_min(int arr[], int n)
5 ▼ {
        if (n == 1) {
6 🔻
7 🔻
             return arr[0];
8
9
        int min_of_rest = find_min(arr + 1, n - 1);
10
11
        if (arr[0] < min_of_rest) {</pre>
12 ▼
             return arr[0];
13 ▼
```

```
14 ▼
        } else {
            return min_of_rest;
15
16
   }
17
18
19 v int main() {
20
        int n;
        scanf("%d", &n);
21
22
        if (n == 0) {
23 🔻
            printf("NULL");
24
25
            exit(0);
        }
26
27
28 🔻
        int arr[n];
        for (int i = 0; i < n; i++) {
29 🔻
            scanf("%d", &arr[i]);
30 🔻
31
32
        int x = find_min(arr, n);
33
        printf("%d", x);
34
35
36
        return 0;
37 }
                                                                                                 Line: 1 Col: 1
```

Run Code

Submit Code

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