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Code, Compile & Run

File

C/C++

```

1 #include <stdio.h>
2
3 int main()
4 {
5     int arr[5], i, j, large, small;
6     printf("How many elements in arr: ");
7     scanf("%d", &n);
8     printf("Enter the array elements: ");
9     for(i=0; i<n; i++)
10         scanf("%d", &arr[i]);
11     large = arr[0];
12     small = arr[0];
13
14     for(i=1; i<n; i++)
15         if(arr[i] > large)
16             large = arr[i];
17         else if(arr[i] < small)
18             small = arr[i];
19
20     printf("The largest element is: %d\n", large);
21     printf("The smallest element is: %d\n", small);
22     return 0;
23 }

```

Run

Open File

Custom Layout

Run

Custom Input:

45

Status: Successfully executed Date: 2020-09-01 15:16:10 Time: 0 sec Mem: 8.424 KB

Input

33

Output

How many elements in arr: 5
Enter the array elements: 1708988438 from the largest element is: 1708988438 from the smallest element is: 1708988438CodeChef is a non-profit competitive programming community.

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C program to find smallest and largest element in an array

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5/06/2020

Algorithm

Step 1: Start

Step 2: Input n , $a[50]$

Step 3: Display how many elements

Step 4: Display Enter array elements
for ($i=0; i < n; i++$)
input $a[i]$

Step 5: $large = small = a[0]$

Step 6: for ($i=0; i < n; i++$)

Step 6.1: if ($a[i] > large$)

Step 6.1.1: $large = a[i]$

Step 6.2: if ($a[i] < small$)

Step 6.2.1: $small = a[i]$

Step 7: print the largest element

Step 8: print the smallest element

Step 9: stop

Flow chart

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