

Code, Compile & Run

Ide x +

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

Problem Code/Name (e.g. TEST)

C (gcc 6.3)



Code gets autosaved every second

```
1  #include <stdio.h>
2  #include <string.h>
3
4  main()
5  {
6      int smallest, secondsmallest;
7      int array[100], size, i;
8      printf("\n How many elements do you want to enter: ");
9      scanf("%d", &size);
10     printf("\nEnter %d elements: ", size);
11     for (i = 0; i < size; i++)
12         scanf("%d", &array[i]);
13     if (array[0] < array[1]) {
14         smallest = array[0];
15         secondsmallest = array[1];
16     }
17     else {
18         smallest = array[1];
19         secondsmallest = array[0];
20     }
21     for (i = 2; i < size; i++) {
22         if (array[i] < smallest) {
23             secondsmallest = smallest;
24             smallest = array[i];
25         }
26         else if (array[i] < secondsmallest) {
27             secondsmallest = array[i];
28         }
29     }
```

30:1

Open File

✓ Custom

```
23     secondsmallest = smallest;
24     smallest = array[i];
25 }
26 else if (array[i] < secondsmallest) {
27     secondsmallest = array[i];
28 }
29 }
30 printf("\nSecond smallest element is %d", secondsmallest);
31 }
```

30:1

Open File

Custom Input

5
4 5 2 7 8

Status Successfully executed **Date** 2020-06-06 13:47:49 **Time** 0 sec

Input

5
4 5 2 7 8

Output

How many elements do you want to enter:
Enter 5 elements:
Second smallest element is 4

Algorithm

Step 1: start

Step 2: Input size

Step 3: enter the element.

for $i=0; i < \text{size}; i++$

enter $a[i]$.

Step 4: if $a[0] < a[1]$.

small = $a[0]$

second smallest = $a[1]$.

else

small = $a[1]$

second smallest = $a[0]$.

Step 5: for $i=2; i < \text{size}; i++$.

if $(a[i] < \text{small})$.

second smallest = small

small = $a[i]$.

else if $(a[i] < \text{second smallest})$

second smallest = $a[i]$

Step 6: Display smallest and second smallest element.

Step 7: stop.

flowchart.

