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Code, Compile & Run

File X +

Context Code/Name (e.g., JOINTS/PRACTICE)

Problem Code/Name (e.g., TEST)

Select

C++14 (gcc 6.3)



Code gets auto-saved 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    }
```

0.0



Open File

✓ Custom Input

Run

Custom Input

```
5
16 87 36 96
```

Status: Successfully executed Date: 2020-06-07 14:01:36 Time: 0 sec Mem: 15,232 kb



Input

```
5
16 87 36 96
```

Output

```
How many elements do you want to enter:
Enter 5 elements:
Second smallest element is 36
```

Program to find second smallest element in an array

Algorithm:

Step 1: Start

Step 2: Input size

Step 3: Display how many elements do you want to enter

Step 4: Display enter %d elements

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

Input array $[i]$

Step 5: if ($\text{array}[0] < \text{array}[1]$)

Step 5.1: $\text{smallest} = \text{array}[0]$

Step 5.2: $\text{second smallest} = \text{array}[1]$

Step 5.3: goto step 10 and step 11

Step 6: else

$\text{smallest} = \text{array}[1]$

$\text{second smallest} = \text{array}[0]$

goto step 10 & step 11.

Step 7: for($i=2$; $i < \text{size}$; $i++$)

Step 8: if ($\text{array}[i] < \text{smallest}$)

$\text{second smallest} = \text{smallest}$.

~~second smallest~~ $\text{smallest} = \text{array}[i]$

goto step 10 and step 11.

Step 9: else if ($\text{array}[i] < \text{second smallest}$)

$\text{second smallest} = \text{array}[i]$

Step 10: Print the second smallest element.

Step 11: Stop.

Flowchart

