Code, Compile & Run

Ide ✖ +

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

Problem Code/Name (e.g. TEST)

C (gcc 6.3) ▾

Code gets autosaved every second

```c
#include <stdio.h>
#include <string.h>

main()
{
   int smallest, secondsmallest;
   int array[100], size, i;
   printf("\n How many elements do you want to enter: ");
   scanf("%d", &size);
   printf("\nEnter %d elements: ", size);
   for (i = 0 ; i < size; i++)
      scanf("%d", &array[i]);
   if (array[0] < array[1]) {
      smallest = array[0];
      secondsmallest = array[1];
   }
   else {
    smallest = array[1];
    secondsmallest = array[0];
   }
   for (i = 2; i < size; i++) {
      if (array[i] < smallest) {
      secondsmallest = smallest;
      smallest = array[i];
      }
      else if (array[i] < secondsmallest) {
         secondsmallest = array[i];
      }
   }
```

30:1

Open File

✓Custo

```
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
```

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1) C program to find second smallest element in an array.

= Algorithm

Step 1:- Start
Step 2:- input size
Step 3:- Display how many element you want to enter
Step 4:- Display enter 0/d element
for (i=0; i<size; i++)
input array [i]
Step 5:- if (array [0] < array [1])
5.1:- smallest = array [0]
5.1:- second smallest = array [1].
5.3:- goto step 10 & step 11
Step 6:- else
smallest = array [1]
second smallest = array [0]
goto step 10 & step 11
Step 7:- for (i=2; i< size; i++)
Step 8:- if (array [i] < smallest)
second smallest = smallest
smallest = array [i]
goto step 10 & step 11
Step 9:- else if (array [i] < secondsmallest)
second smallest = array [i]
Step 10:- Print the second smallest element.
Step 11:- Stop.

Flowchart