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Code, Compile & Run

File

C/C++

0

+

/

x

```

1
2
3 #include <string.h>
4
5
6 int main()
7 {
8     int n;
9     (n = scanf("%d", &n));
10
11     int array[100], size, i;
12
13     printf("How many elements do you want to enter: ");
14     scanf("%d", &size);
15     printf("Enter %d elements: ", size);
16     for (i = 0; i < size; i++)
17     {
18         scanf("%d", &array[i]);
19     }
20     int smallest = array[0];
21     int secondSmallest = array[1];

```

420

Open File

Custom Input

Run

Custom Input

420

Status: Successfully executed Date: 2020-09-06 11:12:19 Time: 0 sec Mem: 9.424 kb

Input

30

Output

```

How many elements do you want to enter:
Enter 30 elements:
Second smallest element is -2147483648

```

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C program to find second smallest element
in an array algorithm

Shuvani MS
4AL1915050
F section
6/06/2020

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 (array[0] < array[1])

Step 5.1: smallest = array[0]

Step 5.2: second smallest = array[1]

Step 5.3: goto step 10 and step 11

Step 6: else

smallest = array[1]

second smallest = array[0]

goto step 10 and step 11

Step 7: for ($i=0$; $i < \text{size}$; $i++$)

Step 8: if (array[i] < smallest)

second smallest = smallest

smallest = array[i]

goto step 10 and step 11

Step 9: else if (array[i] < second smallest)

second smallest = array[i]

Step 10: print the second smallest element

Step 11: Stop

flowchart

Shivani MS
411913050
F section
6/06/2020

