







Code, Compile & Run

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

Problem Code/Name (e.g. TEST)

Select

C (gcc 6.3)   Code gets autosaved every second    

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

21:7 

Open File

☒ Custom Input

Run

Custom Input

5
3 4 5 6 7

Status Successfully executed Date 2020-06-06 08:55:38 Time 0 sec Mem 9.424 kB ✕

Input

5
3 4 5 6 7

Output

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

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C (gcc 6.3)

Code gets autosaved every second

```
10 for(i=0;i<size;i++)
11 scanf("%d",&array[i]);
12 if(array[0]<array[2])
13 {
14     smallest=array[0];
15     secondsmallest =array[1];
16 }
17 else
18 {
19     smallest=array[1];
20     secondsmallest=array[0];
21 }
22 for(i=2;i<size;i++)
23 {
24     if(array[i]<smallest)
25     {
26         secondsmallest=smallest;
27         smallest=array[i];
28     }
29     else if(array[i]<secondsmallest)
30     {
31         secondsmallest=array[i];
32     }
33 }
34 printf("\nsecond smallest element is %d \n", secondsmallest);
35 return 0;
36 }
37
```

21:7 

Open File

☒ Custom Input

Run

Custom Input

5
3 4 5 6 7

Status Successfully executed Date 2020-06-06 08:55:38 Time 0 sec Mem 9.424 kB ✕

Input

5
3 4 5 6 7

Output

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

i) Algorithm (to find second smallest element in an array)

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 : go to step 10 & step 11

step 6 : else

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

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

goto step 10 and step 11

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

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

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

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

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.

ii) Flowchart

