

C program to find the second smallest element in an array.

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Algorithm:

1. Start
2. Input Size.
3. Display how many elements do you want to enter
4. Display enter %d elements.  
for( $i=0$ ;  $i < \text{size}$ ;  $i++$ )  
input array[i]
5. if (array[0] < array[i])
  - 5.1 smallest = array[0]
  - 5.2 second smallest = array[i]
  - 5.3 go to step 10 and step 11
6. else.  
smallest = array[i];  
second smallest = array[0];  
goto step 10 & step 11.
- 7 for( $i=2$ ;  $i < \text{size}$ ;  $i++$ )
- 8 if (array[i] < smallest)  
second smallest = smallest  
smallest = array[i]  
goto step 10 and step 11
9. else if (array[i] < second smallest)  
second smallest = array[i]
10. Print the second smallest element
11. Stop

## Flowchart:

