

## C - program to find smallest element in an array

### 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 and 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:

