

C program to find second smallest element in an array.

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Algorithm

- Step 1: Start
- Step 2: input size
- Step 3: Display how many elements you want to enter
- Step 4: Display the 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: secondsmallest = array[1]
- Step 5.3: goto step 10 and step 11
- Step 6: else
smallest = array[1]
secondsmallest = array[0]
goto step 10 and step 11
- Step 7: for ($i=2; i < \text{size}; i++$)
- Step 8: if (array[i] < smallest)
secondsmallest = smallest
smallest = array[i]
goto step 10 and step 11
- Step 9: else if (array[i] < secondsmallest)
secondsmallest = array[i]
- Step 10: Print the second smallest element
- Step 11: stop

Flowchart--

