

Find second smallest element in an array

Algorithm

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 ($i=2; i < \text{size}; i++$)

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

