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F Section

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C program to 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 entire of 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: $\text{SecondSmallest} = \text{array}[1]$

Step 5.3: goto step 10 and step 11

Step 6: else

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

$\text{SecondSmallest} = \text{array}[0]$

goto step 10 and step 11

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

Step 8: If ($\text{array}[i] < \text{Smallest}$)

$\text{SecondSmallest} = \text{Smallest}$

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

goto step 10 and step 11

Step 9: else If ($\text{array}[i] < \text{SecondSmallest}$)

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

Step 10: Print the second smallest element

Step 11: Stop

Flowchart

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