

Write a program to find the second smallest element in an array

→ Algorithm

step1: start

step2: Input size

step3: enter the element

for( $i=0$ ;  $i < \text{size}$ ;  $i++$ )

Input  $a[i]$

step4: if ( $a[0] < a[1]$ )

small =  $a[0]$

second smallest =  $a[1]$

else

small =  $a[1]$

second smallest =  $a[0]$

step5: for( $i=2$ ;  $i < \text{size}$ ;  $i++$ )

if ( $a[i] < \text{small}$ )

second smallest = small

small =  $a[i]$

else if ( $a[i] < \text{second smallest}$ )

second smallest =  $a[i]$

step6: Display second smallest element is output

second smallest

step7: stop.

Flowchart