

• Second smallest number in array •

\* Algorithm.

Step 1 : Start.

Step 2 : Read n

Step 3 : Repeat step 3 for  $i=0$  to  $n-1$   
Read  $arr[i]$

Step 4 : Initialize  
     $small = arr[0]$   
     $sec\_small = INT\_MAX$

Step 5 : Repeat step 5 for  $i=0$  to  $n-1$   
    if (  $arr[i] < small$  )  
         $small = arr[i]$

    else if (  $arr[i] < sec\_small \&\&$   
             $\&\& arr[i] \neq small$  )  
         $sec\_small = arr[i]$

Step 6 : Print  $sec\_small$

Step 7 : Stop.

• Flowchart

