

1. Start
2. Read the number of elements, n
3. Read n elements into the array arr[]
4. Repeat for  $i = 0$  to  $n-2$ 
  - a. Set  $\text{min} = i$
  - b. Repeat for  $j = i+1$  to  $n-1$ 
    - if  $\text{arr}[j] < \text{arr}[\text{min}]$   
 $\text{min} = j$
  - c. Swap  $\text{arr}[i]$  and  $\text{arr}[\text{min}]$
5. Display the sorted array
6. Stop