

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 `min = i`
 - b. Repeat `for j = i+1 to n-1`
 - `if arr[j] < arr[min]`
 - `min = j`
 - c. Swap `arr[i]` and `arr[min]`
5. Display the sorted array
6. Stop