## **SELECTION SORT ALGORITHM**

- 1. Declare an Array A with default values.
- 2. Set n = length of A
- 3. Set i = 0
- 4. While (i < n)
  - a. Set smallest = A[i]
  - b. Set smallest\_ind = i
  - c. While (j < n)
    - i. If (A[j] < smallest)
      - 1. smallest = A[j]
      - 2. smallest\_ind = j

ii. 
$$j = j + 1$$

- d. if  $(i \neq j)$ 
  - i. set temp = A[smallest\_ind]
  - ii. A[smallest\_ind] = A[i]
  - iii. A[i] = temp
- e. i = i + 1
- 5. print Array A
- 6. Exit