Array Manipulation

Array create and display algorithm:

- 1. Start
- 2. Get the number of elements from the user
- 3. Create an array of that size
- 4. Read the elements into the array
- 5. Print the elements of the array
- 6. End.

Insertion in array algorithm:

- 1. Start
- 2. Get the number of elements from the user
- 3. Create an array of size n+1
- 4. Read the elements into the array
- 5. Get the position and value of the new element to be inserted.
- 6. Insert the new value at the specified position in the array
- 7. Print the updated array to the user
- 8. End.

Deletion from array:

- 1. Start
- 2. Get the size of the array and its elements from the user
- 3. Get the position of the element to be deleted from the user
- 4. Shift the elements to the left, Starting from the specified position
- 5. Display the updated array (with the specified element removed to the user)
- 6. End

Linear Search in array:

- 1. Start
- 2. Get the size of the array and its elements from the user
- 3. Get the value to be searched for in the array
- 4. Use a flag variable to indicate whether the "value is found" in the array
- 5. Iterate through the array and check if the value matches any element.
- 6. If the value is found, Set the flag to 1 and break out of the loop
- 7. If the flag is 1, Print "value if found"; Otherwise print "value not found"
- 8. End.