

Name: _____ Date: _____

Practical Computer Science Test Q4 2021

<i>Instructions</i>	<i>Program Display/Screen Output</i>
1. Write a method to output the contents of a String array on the screen.	Abe Bob Gale Ed Faye Ives Chuck Abe Gale Anne
2. Copy (clone) the array <i>original</i> to two arrays, named <i>ascending</i> and <i>descending</i>
3. Write a selection sort method to sort the <i>ascending</i> array in ascending order (a-z).	Abe Abe Anne Bob Chuck Ed Faye Gale Gale Ives
4. Write a bubble sort method to sort the <i>descending</i> array in descending order (z-a). Display all 3 arrays on screen.	Ives Gale Gale Faye Ed Chuck Bob Anne Abe Abe
5. Write a case sensitive linear search method that returns the index of the <i>data</i> if found in an <i>array</i> , -1 otherwise.	Looking for Lester [-1]: -1 Looking for anne [-1]: -1 Looking for Anne [2] : 2
6. Write a method isSorted that accepts an array and returns -1 if sorted in descending order, 0 if not sorted, and 1 if sorted in ascending order.	original array sorted [0]: 0 ascending array sorted [1]: 1 descending array sorted [-1]: -1
7. Write a remove method that deletes an element in an array given the <i>array</i> and the <i>index</i> of the element to delete (and packs up/cleans up the array).	Removing first element from descending array Gale Gale Faye Ed Chuck Bob Anne Abe Abe
8. Write a method that removes all duplicate elements from an array sorted in ascending order.	Removing duplicates from the ascending array Abe Anne Bob Ed Faye Gale Ives Removing duplicates from the original array? Error-Array not sorted in ascending order
9. Write a method that inserts an element in the correct place/index in an array already sorted in ascending order.	Inserting Ivo into descending Array not sorted in ascending order. Inserting James into ascending Abe Anne Bob Ed Faye Gale Ives James Inserting Aaron into ascending Aaron Abe Anne Bob Ed Faye Gale Ives James Inserting Ernesto into ascending Aaron Abe Anne Bob Ed Ernesto Faye Gale Ives James
10. Modify the method you wrote in #9 so that the insertion is made only if the element to insert is not already present in the array.	Inserting Ives into ascending Ives already in the array

Note: You may want to include/use a boolean isFull(String[] array) { return lastIndex==array.length; } method in your answer.