Assignment Lec (10)

(1) Write a function which, given a string, return TRUE if all characters are distinct and FALSE if any character is repeated. (assume TRUE as 1, FALSE as 0)

(2) Write a C function that use the bubble sorting algorithm to sort an integer array in descending order.

(3) write a C function that use the selection sorting algorithm to sort an integer array in ascending order.

(4) Write a function which, given a string, converts all upper case letters to lowercase, leaving the others unchanged.

(5) Write a function to find the length of a string.

(6) Write a function to remove all characters in a string expect alphabets.

(7) Write a function to reverse a string passed to it.

(8) Write a function to concatenate two strings.

(9) write a C function that use the insertion sort algorithm to sort an integer array in ascending order.

(10) make a comparison between the selection, bubble, insertion sorting algorithms, the comparison should include these points:

1. Idea
2. Data sensitivity
3. Time complexity
4. Space complexity
5. Stability
6. Data movements