CS 2213 Advanced Programming Recitation - Exercise

Strings – pointer arithmetic

Using **pointer arithmetic**, re-write the **string** functions discussed in class. Specifically, implement the following functions.

- a function that counts the number of characters in a string S1.
- a function that reverses the characters in a string S1.
- a function that compares 2 strings S1 and S2 using lexicographic order, returns 0 if they are the same, -1 if S1 comes before S2, or 1 if S1 comes after S2
- a function that searches string S1 in S2 and returns 1 if S1 is in S2; otherwise returns 0.

Also write a driver/client program which declares S1 and S2 as character pointers and accepts input for them using GetLine() function in the textbook's simpio.h library.

char *S1, *S2;
S1 = GetLine();
S2 = GetLine();

Then call the above functions and print the appropriate results after each function…