Q1)

    a) Write a C++ function to implement the **Quick Sort** Algorithm.

    b) Write a main program to check the above function. Use 100 randon numbers to test your function.

Note: 1) Write comments in necessary places in your program.

            2) Save your program as CS251_Q1.CPP.

Q2)

    a) Implement a stack ADT class called **CStack** to store characters.

    b) Implement the following primitive operations of stack:
        Push(char c),
        Pop(),
        isEmpty(),
        isFull().

    c) Write a program to read a word / string from the user and use your above class **CStack** to reverse the word.
        (For Example : **Algorithms -> smhtiroglA**)

Note: 1) Write comments in necessary places in your program.

            2) Save your program as CS251_Q2.CPP.