CS 3304 Data and Information Structures

Lab – Chapter 9

This assignment is adapted from Programming Problems #31 for Chapter 9 in Page 520.

Write a C++ program that uses the queue and stack containers to read string of characters, pushing each character onto a stack as it is read and simultaneously adding it to a queue. When the end of the string is encountered, the program should use the basic stack and queue operations to determine if the string is a palindrome.

Requirements:

- 1. Input string must be read at keyboard, with proper prompting message.
- 2. When finishing testing one string, the program must empty the stack and the queue and loop back to read the next string. The looping should be terminated upon reading string "-1".
- 3. Use Visual Studio to test your program. Set application type to "General" and project type to "Empty".
- 4. Turn in the C++ source files by the due date.