C - Assignment 07 (100 pts)

Exercise 01 (20 pts)

Write a function `isPalindrome(char * word)` that checks if the received string is a palindrome.

Exercise 02 (40 pts)

Write a program that encodes English-language phrases into pig Latin. Pig Latin is a form of coded language often used for amusement. Many variations exist in the methods used to form pig-Latin phrases. For simplicity, use the following algorithm:
To form a pig-Latin phrase from an English-language phrase, tokenize the phrase into words with function `strtok`. To translate each English word into a pig-Latin word, place the first letter of the English word at the end of the English word and add the letters "`ay`". Thus the word "`jump`" becomes "`umpjay`", the word "`the`" becomes "`hetay`" and the word "`computer`" becomes "`omputercay`". Blanks between words remain as blanks. Assume the following: The English phrase consists of words separated by blanks, there are no punctuation marks, and all words have two or more letters. Function `printLatinWord` should display each word. [*Hint:* Each time a token is found in a call to `strtok`, pass the token pointer to function `printLatinWord`, and print the pig-Latin word.

Exercise 03 (20 pts)

Write a program that reads 5 strings (each of 20 characters max) and stores them in an array of strings. The program should then print the strings that begin with “Th”.

Exercise 04 (20 pts)

Write a program that reads 5 strings (each of 20 characters max) and stores them in an array of strings. The program should then print the strings that end with “tion”.

Note: use `strcmp`