# CS250 Assignment 1 

Palindrome Checker

Date Assigned: Monday, February 7, 2005
Date Due: Friday, February 18, 2005
Points: 35
Write a program that will test whether one or more character strings listed in a file are palindromes. A palindrome is a sentence (or word) that reads the same forwards and backwards. For example, both rotor and toot are palindromes. Most definitions of a palindrome do not count spaces or special characters as significant, thus the following sentence is also a palindrome: "A man, a plan, a canal, Panama!".
The input to your program will be a file containing a list of words or sentences, which may or may not be palindromes. Each word or sentence will appear on a separate line.

The output should be two files, the first will list all the palindromes, one per line, the second will list all the non-palindromes, again one per line. Each file must also start with a sentence showing the number of palindromes or non-palindromes that will be listed.
For this assignment, you must use pointer notation instead of array notation throughout your code. You should also break your program up into well-defined functions and code/test your solution one function at a time.

You must use at least five functions in your program and you must follow the coding standards found at http://zeus.cs.pacificu.edu/shereen/CodingStandards.html

## How to submit

- Submit a hard copy of the code by 9am on the day the assignment is due.
- Test your code on the file I have placed in CS250 public folder on Turing. You must place a copy of this file in your submitted project folder.
- Place the complete project folder in the CS250 drop folder on Turing by 9am on the day the assignment is due.

