

1. Write a program that given a text file will create a new text file in which all the lines from the original file are *numbered* from 1 to  $n$  (where  $n$  is the number of lines in the file).
2. Write a program that will calculate the average word length of a text stored in a file (i.e the sum of all the lengths of the word tokens in the text, divided by the number of word tokens).
3. Write a version of a palindrome recognizer that accepts a file name from the user, reads each line, and prints the line to the screen if it is a palindrome.