

CS112 - Intro to Problem Solving and Programming Lab Assignment #4

Summer 2004

The purpose of this assignment is to use a file for input, and to do some simple analysis on characters.

For this assignment, you are to write a program that will input characters, one at a time, from a file, and analyze that character. Specifically, you determine the following about the character:

- Is it a digit?
- Is it an alpha character (i.e., A-Z or a-z)?
- Is it a special character (not a letter or number)?
- If it is an alpha character, is it upper or lower case?
- If it is an alpha character, is it a vowel or a constant?
- If it is a digit, is it even or odd?
- Count the number of spaces that are in the file.
- Count the number of lines in the file.
- Count the total number of characters that are in the file.

The program should terminate when the end of file is reached.