

COSC 201 – Assignment #1

Fall 09

Objective: Write a program that will take in a text file as a command-line parameter, the output the number of words in that file. You will use the Iterator API class to accomplish this goal. You will then sort those words alphabetically and output it to the screen.

Expectations: Your code will need to be neat, concise, well documented and above all, correct (see Testing). All classes should have headers and each method should have comments describing the method's function with pre and post conditions. Any novel or possibly confusing code should be explained as I do get confused and distracted easily.

Design Documents: UML diagrams are due September 23d at the start of class.

Testing: I will test your code utilizing various sized text files, including an empty file. Be sure that your program outputs useful error messages for an empty file, no file found and no parameters given at the command line. I will not be using a separate testing class for this assignment and thus I do not have any requirements on your method signatures. You will just need to guarantee that it functions given a test .txt file via command line.

Sample Output:

Test.txt:

```
I am the very model of a modern major general,  
I've information vegetable, animal and mineral.
```

Command line Run:

```
> javac Wordy.java  
> java Wordy  
    You didn't put in a text file parameter!  Start over!  
> java Wordy temp.txt  
    temp.txt doesn't exist.  Start over!  
> java Wordy Test.txt  
    Test.txt contains 16 words.  
    Alphabetical Sort:  
    a  
    am  
    and  
    animal  
    ... ((and so on))
```

Grading rubric will be given out at least a week ahead of the due date.

DUE: October 7th, 11:59 pm Eastern.