**WordCount Assignment** - 20 Points

This program will accept two Strings from the user. Each String will be used to build a WordCount object. The WordCount object will calculate a value based on the letters used in that String. The value of a letter is based on its position in the alphabet. (a=1, b=2, c=3, …z=26) The value of the WordCount object is the sum of its letters. You can assume the only input will be words composed of lower case letters. Examples: "bad" = 7 (2 + 1 + 4) "cow" = 41

This assignment requires you to make use of the *Comparable* interface. Thus, your program will begin with:

*public class WordCount implements Comparable()*

Your WordCount object should accept a String as its constructor. The value of the WordCount should be calculated within the constructor. (You can call external methods from within the constructor)

Your WordCount class should have a main method built within it. The main method will accept two Strings from the user and from those 2 Strings, two WordCount objects will be built (values calculated) outputted and compared.

**public** **static** **void** main(String[] args) {

Scanner s = **new** Scanner(System.*in*);

WordCount word1 = **new** WordCount(s.next());

System.*out*.println(word1);

WordCount word2 = **new** WordCount(s.next());

System.*out*.println(word2);

word1.compareTo(word2); }

Require method: The *compareTo* method should compare the first WordCount object to the second.

* If the value of the first object is greater than the second, the compareTo method will return the difference of the two as a positive integer.
* If the value of the first object is less than that of the second, the compareTo method will return the difference of the two as a negative integer.
* If the value of the first and second objects is the same, the compareTo method will return the value of 0;

Required method: The toString method should output : name = value

Use the following examples for expected outputs:

boogers

boogers = 81

teapot

teapot = 77

boogers is 4 greater than teapot

helicopter

helicopter = 111

computer

computer = 111

helicopter and computer have the same value of 111

dixon

dixon = 66

fritter

fritter = 96

dixon is -30 less than fritter

Your solution should be uploaded via LiveLab and is due by the beginning of class tomorrow (April 19)