

Assignment 9

Due 11 November 7:59am

1 Problem 1

Cat Food Be sure to also download the file “cats.txt” that has been posted on blackboard. This file contains two columns of data, the first column is a cat’s name. The second column is the amount of food (by volume, in cups) that cat ate in the past week.

This week’s problem is, using this data, to calculate the average, minimum, and maximum cat food consumption and write those results to a new file called “food_stats.txt”.

The results in food_stats.txt should look like this (your exact results will be different):

```
Average 1.10 cups
Maximum Linus 2.00 cups
Minimum Ajax 0.50 cups
```

2 Bonus: 10pts

Average, Minimum, and Maximum String Size Calculate and output to a file “name_stats.txt” the average, minimum, and maximum of the lengths of the names. Also include the names themselves for the minimum and maximum names. You need not implement any tie-breaking logic should there be ties.

Hint: Is there a member function of the string class that provides you with the size of a string?