WA5

WEEKLY ASSIGNMENT 5
BME 121, FALL 2016

Due Fri Nov 4 at 4:30 pm

ASSIGNMENT

The file "14522-8.txt" contains a Project Gutenberg eBook called "The Canterville Ghost", by Oscar Wilde. Do not alter the file to complete this assignment.

Write a C# program which will read the file and show how often the author uses words of each length. A word is counted each time it is used, whether or not it has already been seen. You may assume in advance that there are no words longer than 25 characters.

In processing the file, consider only the lines after but including the line containing "THE CANTERVILLE GHOST" and before but including the line containing "Virginia blushed."

In splitting each line into words, split around spaces (normal word separator) and hyphens (to break up compound words).

Before determining the length of a word, trim from each end, any extra space and any of the following characters: comma, period, question mark, exclamation mark, semicolon, colon, quote, double quote, left bracket, right bracket, left parenthesis, right parenthesis, vertical bar, underscore, plus sign, hyphen.

Any console output is acceptable which shows each word length and the number of times a words of that length appears. At a test case, I find 2848 uses of a word of length three.

In testing your file reading and division into words, you may see a couple of words which don't display properly in the console window because they use a Unicode character outside the normal range. This is just a display problem which you can ignore. An example is the word "mediævalism" where the fifth character may not display properly. It will still have length eleven.

A couple of Oscar Wilde quotes related to learning:

"Education is an admirable thing, but it is well to remember from time to time that nothing that is worth knowing can be taught."

"We teach people how to remember, we never teach them how to grow."

"Experience is the name everyone gives to their mistakes."

"The truth is rarely pure and never simple."

SUBMISSION

Name your C# program file as wa5.cs. Use Bme121.Wa5 as your namespace identifier. Include the standard doc-comment block. Submit wa5.cs at the following url.

https://georgefreeman.ca/fileuploader