Wordcounter challenge

This is a program that counts occurrences of words in a text file.

The project is also available on GitHub.

Building and running

I've written the program in C# and Visual Studio 2015. I would use 2013 if I had it, but I don't. However, I intentionally didn't use any C# 6.0 feature, so it will be easy to port it to a Visual Studio 2013 solution only by copying the source files if openening the solution doesn't work.

In order to run the program, open the WordCounter.sln solution and run the `WordCounter` project. It is a simple command line application.

`WordCounter` accepts a single argument which is the full name of the file from which the words should be counted.

If you are running from Visual Studio, right click the `WordCounter` project on the solution, click `Debug` and add the fullname of the file you want to analyze on the `Command line arguments` input. If you are running from the command line, just pass the same fullname as the first argument.

About the program

`WordCounter` is focused on performance, so...

- If does not completely load the target file in memory. Therefore, it should work with files that are greater than the available memory in the system.
- It iterate through each character of the file only once.
- It outputs the total number of milliseconds it took to run.

`Wordcounter` has basic support for numbers. The characters `.` and `,` are not considered sentence or word breakers if they have adjoining digits. There's no validation for numbers whatsoever.

Unit tests

I've made basic unit tests, they can be found [here](). I've tested basic edge cases. It's not complete, but works well enough for what I intended to do.

Time needed to complete

`WordCounter` took me 5 hours to complete, not considering this documentation.

Contact me

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