

Java Programming Test

Please write, in Java, an API to read the contents of a plain text file and enable the display of the total number of words, the average word length, the most frequently occurring word length, and a list of the number of words of each length.

Submit your code, along with unit tests, and maven POM file, in a zip file or Github repository, via email along with instructions for its installation and use, along with any assumptions that you have made about what defines a word (using as a basis the rules that can be deduced from the example below).

For example given a file that contains the following text:

Hello world & good morning. The date is 18/05/2016

We would expect the following output:

Word count = 9

Average word length = 4.556

Number of words of length 1 is 1

Number of words of length 2 is 1

Number of words of length 3 is 1

Number of words of length 4 is 2

Number of words of length 5 is 2

Number of words of length 7 is 1

Number of words of length 10 is 1

The most frequently occurring word length is 2, for word lengths of 4 & 5

Note that we will test code submissions on a number of files of various lengths ranging from the above example through to the large books such as the Bible:

(http://janelwashere.com/files/bible_daily.txt).

Clue – Do not forget to consider formatted numbers.

On the code test:

- This is as much about reading and understanding the problem statement as it is about coding.
- We are looking for eloquent, efficient, machine efficient code.
- Use advanced coding features to help with the above.
- The corollary of the above - do not over complicate the solution.
- Make sure the completed version works!

We prefer submissions via GitHub.

Once completed, either upload Java files to github and send me the link, or attach your files to email via <https://www.fromsmash.com> or <https://wettransfer.com>