15-112, Spring 2015
Quiz 4

Submission

You must submit one (and only one) python file on Autolab. This python file must be named *userid*-quiz4.py and must include all of the code that you have written for this assignment. Please write your name and userid as a comment at the beginning of each Python file. All of your test cases must be commented but not the functions.

Recommendations

- **Make sure to test your program**.
- Make sure that your program is executable. If you are unable to complete portions of the quiz, comment out the part of the code that does not work properly, and explain what you did, what worked, and what did not. It is your responsibility to explain as carefully as you can why you think you were unable to get the code working, what you think is wrong, and how you might go about fixing it. The quality of such an explanation will be important to us in deciding whether to give you partial credit.
- You can reuse any piece of code developed in class and assignments.

Text Analyzer

Write a function `analyze(text)` that takes a text (as `string`) and returns the same text (as `string`) augmented with statistics. After each sentence (meaning after each `"."`), the statistics show the number of spaces and the number of letters for this sentence. These statistics should be added to the returned text and should be formatted as shown in the following examples:

For instance,

```
analyze("This is so H A R D.")
```
returns
```
This is so H A R D. [space:6, letter:12]
```

```
analyze("This quiz is not so easy.  But I solved it.")
```
returns
```
This quiz is not so easy.  [space:5, letter:19] But I solved it.  [space:4, letter:12]
```

```
analyze("Done.  It works.  I am a genius.  Yes.")
```
returns
```
Done.  [space:0, letter:4] It works.  [space:2, letter:7] I am a genius.  [space:4,
letter:10] Yes.  [space:1, letter:3]
```

In this exercise, we will assume:

- The text will always end by `"."`
- The text does not contain any punctuation other than `"."`
- Words are always separated by a single space only