Take-home test for Unit 2



Task

In this test, we will write a program that reads a text file, prints it out line by line, and reports a summary about each line.

Step-by-step implementation

- 1. Create a program file called test2.py.
- 2. Download the text file win95coolest.txt from the URL http://web.textfiles.com/humor/win95coolest.txt and save it in the same folder with test2.py.
- 3. In test2.py, write a program that reads win95coolest.txt and prints it out line by line.
- 4. Modify the program so that it prints out each line **prefixed by its line number**. The first few lines of the output should look like:

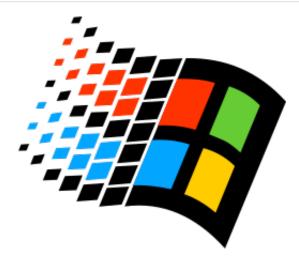
```
1 Windows95 Will Have the Coolest Users Ever
2
3 REDMOND, WASHINGTON -- In order to calm growing impatience among PC users
4 concerning the repeated delays of its new Windows 95 operating system,
5 Microsoft Corporation announced what it calls the "Cool User Program for
6 Windows 95." To participate in this offer, a user pays US$10,000 at which
```

5. Modify the program to additionally print **the number of words** in each line. The first lines of the output should look as follows (highlighting is added to emphasize the change):

```
1 7 Windows95 Will Have the Coolest Users Ever
2 0
3 12 REDMOND, WASHINGTON -- In order to calm growing impatience among PC users
4 11 concerning the repeated delays of its new Windows 95 operating system,
5 11 Microsoft Corporation announced what it calls the "Cool User Program for
6 13 Windows 95." To participate in this offer, a user pays US$10,000 at which
```

6. Modify the program so that it also prints **the average length of the words** in each line. You have to be careful when dealing with lines that contain 0 words: assume that the average word length is zero in this case. The first lines of the output should look as follows (highlighting is added to emphasize the change):

```
1 7 5.142857142857143 Windows95 Will Have the Coolest Users Ever
2 0 0
3 12 5.1666666666667 REDMOND, WASHINGTON -- In order to calm growing impatience among PC users
4 11 5.4545454545454 concerning the repeated delays of its new Windows 95 operating system,
5 11 5.6363636363637 Microsoft Corporation announced what it calls the "Cool User Program for
6 13 4.6923076923076925 Windows 95." To participate in this offer, a user pays US$10,000 at which
```



7. Submit your complete program test2.py through Blackboard.

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