Paragraph Analysis 4

Spell Checker using maps **with analysis**

Requirements

Create file in python with a **comment** containing the academic honesty pledge as shown below. Add another, separate comment to the file containing your name

- Write a python program that checks the spelling of the text in a textarea as described below.
- Your code will print out a list of 'misspelled' words.
- Your code should generate both the form (with a textarea) and the output.
- A **Computer Science based** explanation of this compared to the built in python map.

```
# I honor Parkland's core values by affirming that I have
# followed all academic integrity guidelines for this work.

# your name
```

Overview

- Make a webpage with a textarea that allows lots of typing.
- Only use the English Dictionary at `/home/staff/kurban/public/lists/web2.txt` (I will add/delete words to/from the dictionary to test it) Your final version **HAS** to use this dictionary in the directory I gave, **not a copy.** The dictionary has caps, convert them to lower case or not, it doesn't matter.
- After submit is pressed, *output a list of all the words in the textarea that are not in the dictionary. (misspelled words)*
- **You cannot use the build-in map in python for anything but testing and analysis, you have to use the AVL class from the book!!!**
- **Read the dictionary into the AVL map, then lookup the words in the text area in the AVL map. Capitalization doesn't matter.**
- **The analysis should be in a widely readable format.**

Analysis (required)

Turn in a written page on why this site performs the way it does.

You need to write the argument yourself. It needs to be based on the principles of Computer Science we have talked about in class. It doesn't need to be a formal proof.

Place the parkland pledge at the top of the document.

dictionary text file format:

One word per line.

How to read the file:

```
filename = "/home/staff/kurban/public/lists/web2.txt"
dictionaryFile = open(filename, "r")
for word in dictionaryFile:
   # store 'word' into a map.
```

Turn in

Your code (just the files you changed)

A link to the website.

The page of analysis you've written yourself. I will have the parkland pledge at the top. I needs to be in a widely readable format (like docx or text)

DO NOT TURN IN THE DICTIONARY