

Lab 7 - Hidden Figures

_ Learning Objectives: Demonstrate understanding of string methods, such as `replace`, `split`, `lstrip`, `upper`, and `join`._ Most of us have used tools that manipulate paragraph contents when writing a paper. We wonder how the application does this. This lab will make some corrections to a paragraph that talks about the first African American computer programmer, Dorothy Vaughan. This paragraph has a few grammatical errors. Instead of having "were" it has "where" and every sentence's first word starts with a lower case. The purpose of this lab is to learn more about the first female programmer by practicing using some string methods.

To learn more about Dorothy Vaughan, [click here](#)

Step 1: Create a function that makes the corrections

Write a function called *capitalizing_paragraph* that takes one parameter; string paragraph. The function should:

Replace all the "where" with "were" and save it as a new string.

Split the paragraph using a period "." and save the list.

Remove all the leading white space from each element in the list.

Replace the lower case with an upper case for the first element of the string.

Create a string name period defined as ". ".

Take the period and join it with every element on the list.

Display the final string product.

Return the final string product.

Step 2: Set up the main function

Display the correct content "Corrected paragraph. " + final string product by calling the *capitalizing_paragraph* and using the `DOROTHY_HISTORY` constant.

Test

Try out your function with different values to check that it is working correctly.

Submit

There are automated tests for this lab so make sure they pass before submitting. As always, stop by student hours, send an email, check in with a peer, or stop by the STEM Center if you need any assistance.