Creating Titles

In this exercise, you will work with a partner to write a program that prompts the user for a book title and displays a version of the book title that follows certain capitalization rules for titles. Your program will use only string operations, control statements, assignment statements, input statements and print statements. *(Like this week’s CSE 231 project, you will NOT use lists!)* Develop the program incrementally, as described below.

**Version 1:** To apply any capitalization rules, your program will first need to be able to isolate the words in the title. So the first version of the program will just implement the following algorithm:

-- prompt the user for a book title
-- loop:
  * assign the next word of the title to a variable
  * print the value of this variable on its own line

You can assume that at least one space separates consecutive words in the title entered by the user. You should treat any punctuation as part of the word it is attached to.

To clarify, some sample interactions with our first program are shown below. *(The first line shows the prompt that the input function is called with (i.e., *'Enter a title: '*) followed by the title entered by the user (e.g., *'gone with the wind'.)*)
**Version 2:** For this version, display a title in which every word begins with a capital letter and a single space separates consecutive words. Do this by adding code to:
-- Before the loop, assign the empty string to a new variable (a ‘working variable’)
-- On each iteration of the loop, add a capitalized copy of the new word (and a space character, if needed), to the working variable.
-- After the loop, print the working variable (the fully capitalized title).

For example:

![Console output]

```
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For example:
```

![Console output]

```

**Version 3:** Certain short words should be capitalized in a title only if they are the first or last word in the title. Modify your program so that it capitalizes the following short words if and only if they are first or last in the title.

Short words not to capitalize: a, an, and, the, but, for, on, at, to, from, by, with, it,

Some examples:

![Console output]

```
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Some examples:
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![Console output]

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**Version 4:** There is an exception to the rule about short words. The first word following a colon (:) should always be capitalized. Modify your program to enforce this rule.

For example:

![Console output]

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For example:
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![Console output]