Homework due Jul 13, 2021 22:00 +06

Exercise 1

In this five-part exercise, we will count the frequency of each letter in a given string.

Exercise 1a

1/1 point (graded)
Import the string library.

Create a variable alphabet that consists of the lowercase and uppercase letters in the English alphabet using the ascii_letters data attribute of the string library.

What line of code did you use to create the alphabet variable?

alphabet = string.ascii_letters





You have used 1 of 10 attempts



Exercise 1b

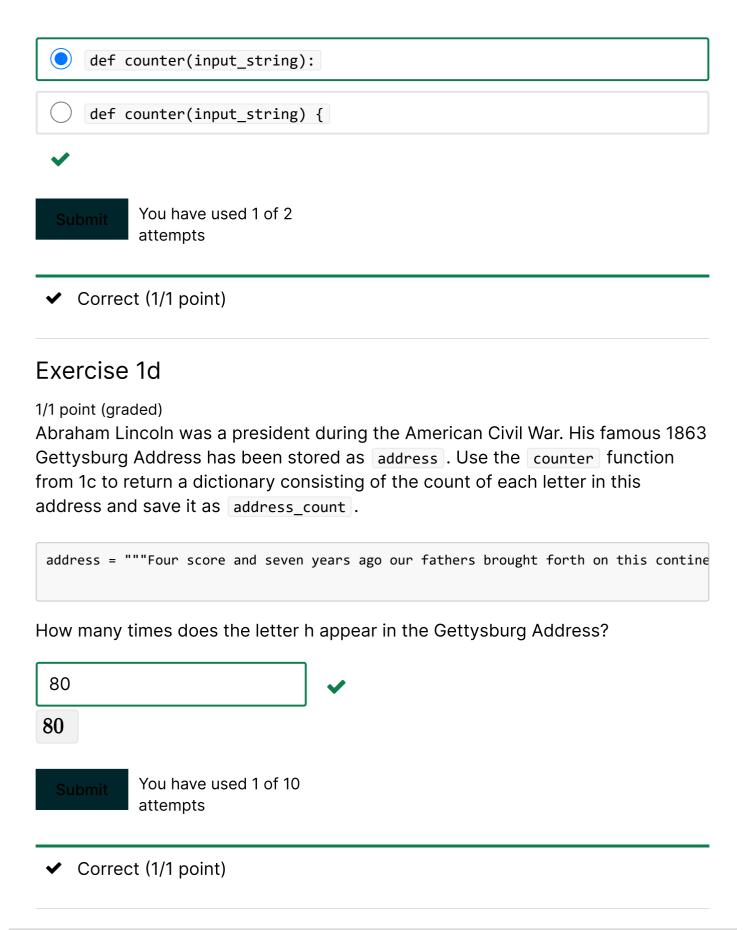
2/2 points (graded)

The lower and upper case letters of the English alphabet should stored as the string variable alphabet.

Consider the sentence 'Jim quickly realized that the beautiful gowns are expensive'. Create a dictionary count_letters with keys consisting of each unique letter in the sentence and values consisting of the number of times each

letter is used in this sentence. Count upper case and lower case letters separately in the dictionary.

What is the 3rd value of the dictionary? Hint: remeber that Python is zero indexed!
1
1
What is the 8th value of the dictionary? Hint: remeber that Python is zero indexed!
3
3
You have used 2 of 10 attempts
✓ Correct (2/2 points)
Exercise 1c
1/1 point (graded) Rewrite your code from Exercise 1b to make a function called counter that takes a string input_string and returns a dictionary of letter counts count_letters.
Use your function to call counter(sentence).
What is the correct function header for the counter function?
<pre>def counter(count_letters):</pre>
<pre>counter <- function(input_string) {</pre>



1/1 point (graded)

In Exercise 1d, you stored the frequency of each letter in the Gettysburg Address is in <code>address_count</code>. Use this dictionary to find the most common letter in the Gettysburg address.

What is the most frequent letter in the Gettysburg Address?



✓ Correct (1/1 point)