course_1_assessment_7

Due: 2018-11-25 01:21:00

Description: Assessment for Way of Programmer Week 3. Score: 0 of 5 = 0.0%

Questions

Not yet graded

`rainfall_mi` is a string that contains the average number of inches of rainfall in Michigan for every month (in inches) with every month separated by a comma. Write code to compute the number of months that have more than 3 inches of rainfall. Store the result in the variable `num_rainy_months`. In other words, count the number of items with values `> 3.0`.

Hard-coded answers will receive no credit.

Save & Run 5/9/2021, 12:20:03 PM - 2 of 2 Show in CodeLens

```
1 rainfall_mi = "1.65, 1.46, 2.05, 3.03, 3.35, 3.46, 2.83, 3.23, 3.5, 2.52, 2.8, 1.85"
2 rainfall_mi_split = rainfall_mi.split(",")
3 num_rainy_months = 0
4 for x in rainfall_mi_split:
5     x = float(x)
6     if x > 3.0:
7         num_rainy_months += 1
8
9 print(num_rainy_months)
```

```
5
```

ActiveCode (assess_ps3_1_1_1)

Result	Actual Value	Expected Value	Notes
Pass	'for'	'rainf...nths)'	Testing that your code has a for loop (Don't worry about actual and expected values).
Pass	5	5	Testing that num_rainy_months has the right value

Expand Differences

You passed: 100.0% of the tests

Not yet graded

The variable `sentence` stores a string. Write code to determine how many words in `sentence` start and end with the same letter, including one-letter words. Store the result in the variable `same_letter_count`.

Hard-coded answers will receive no credit.

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```
1 sentence = "students flock to the arb for a variety of outdoor activities such as jogging
2
3 same_letter_count = sum(w[0] == w[-1] for w in sentence.split())
4 print(same_letter_count)
5
6
7
```

```
2
```

ActiveCode (assess_ps3_1_1_2)

Result	Actual Value	Expected Value	Notes
Pass	2	2	Checking that same_letter_count has the correct value
Pass	'for '	'sente...t)\n\n\n'	Testing that your code has a for loop

Expand Differences

You passed: 100.0% of the tests

Not yet graded

Write code to count the number of strings in list `items` that have the character `w` in it. Assign that number to the variable `acc_num`.

HINT 1: Use the accumulation pattern!

HINT 2: the `in` operator checks whether a substring is present in a string.

Hard-coded answers will receive no credit.

Save & Run 5/9/2021, 12:21:16 PM - 2 of 2 Show in CodeLens

```
items = ["whirring", "wow!", "calendar", "wry", "glass", "", "llama","tumultuous","owing"]
count = 0
for i in items:
    if 'w' in i:
        count += 1
acc_num = count
```

ActiveCode (assess_ps3_1_1_3)

Result	Actual Value	Expected Value	Notes
Pass	' in '	'items...unt\n\n'	Testing that you are using the in operator.
Pass	4	4	Testing that acc_num has been set to the number of strings that have 'w' in them.

Expand Differences

You passed: 100.0% of the tests

Not yet graded

Write code that counts the number of words in `sentence` that contain *either* an "a" or an "e". Store the result in the variable `num_a_or_e`.

Note 1: be sure to not double-count words that contain both an a and an e.

HINT 1: Use the `in` operator.

HINT 2: You can either use `or` or `elif`.

Hard-coded answers will receive no credit.

Save & Run 5/9/2021, 12:21:45 PM - 2 of 2 Show in CodeLens

```
sentence = "python is a high level general purpose programming language that can be applie

num_a_or_e = 0
for i in sentence.split():
    if ('a' in i) or ('e' in i):
        num_a_or_e += 1

print(num_a_or_e)
```

```
14
```

ActiveCode (assess_ps3_1_1_4)

Result	Actual Value	Expected Value	Notes
Pass	' in '	'sente...r_e)\n'	Testing that you are using the in operator.
Pass	14	14	Testing that num_a_or_e has been set to the correct number.

Expand Differences

You passed: 100.0% of the tests

Not yet graded

Write code that will count the number of vowels in the sentence `s` and assign the result to the variable `num_vowels`. For this problem, vowels are only a, e, i, o, and u. Hint: use the `in` operator with `vowels`.

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```
s = "singing in the rain and playing in the rain are two entirely different situations but
vowels = ['a','e','i','o','u']

# Write your code here.
num_vowels = sum([1 for i in s if i in vowels])
print(num_vowels)
```

```
32
```

ActiveCode (assess_ps3_1_1_5)

Result	Actual Value	Expected Value	Notes
Pass	32	32	testing whether num_vowels is set correctly
Pass	'for'	's = "...ls)\n\n'	Testing that you are using a for loop.

Expand Differences

You passed: 100.0% of the tests

Score Me