Week 08: Problem Set

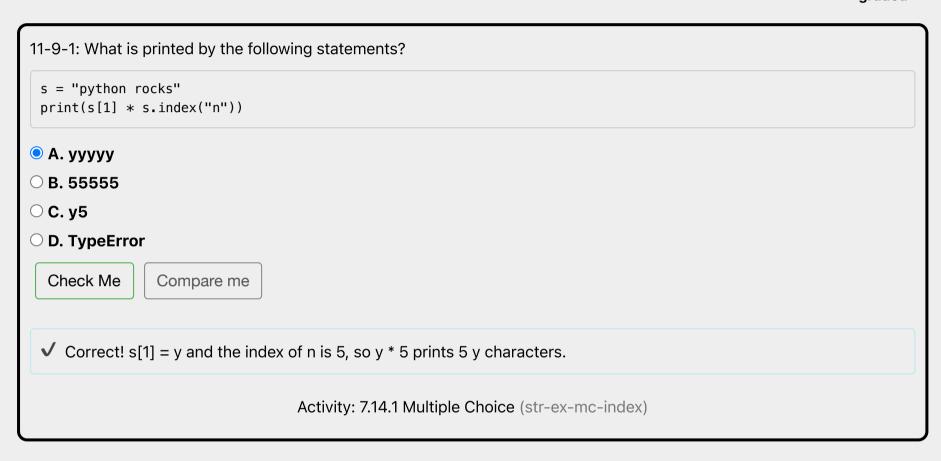
Due: 2023-03-17 23:59:00

Description:

You have marked this assignment Finished. Click to mark it In Progress

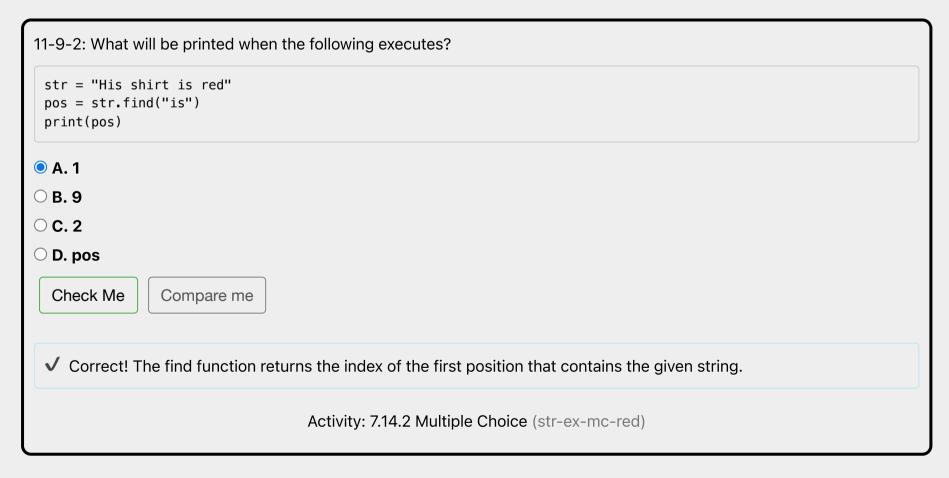
Questions

Not yet graded

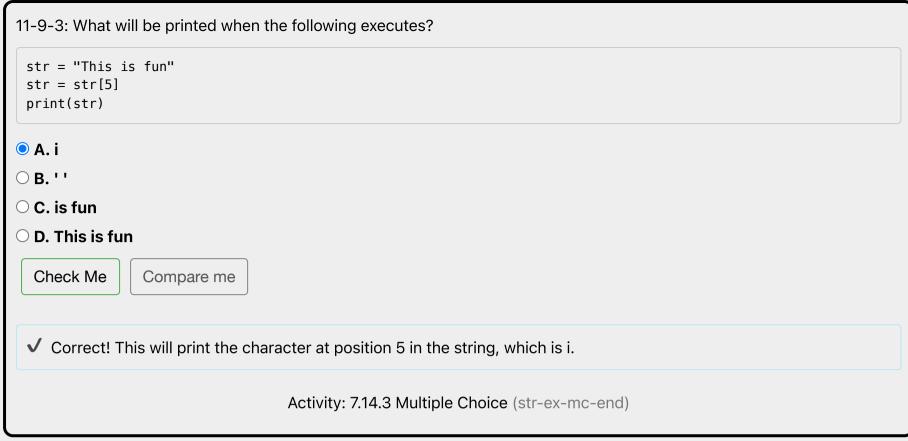


Question in Context (/ns/books/published/cmsc-210-spring-2023/strings/Exercises.html#str-ex-mc-index)

Not yet graded

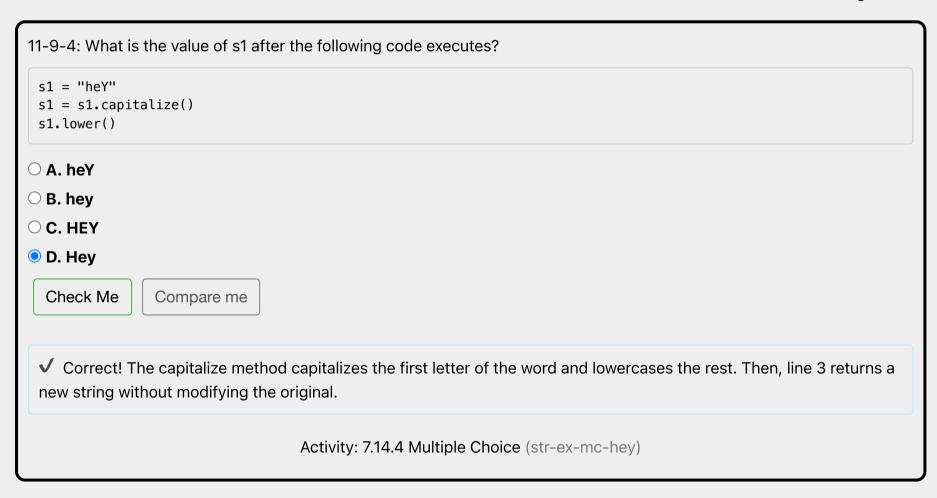


Question in Context (/ns/books/published/cmsc-210-spring-2023/strings/Exercises.html#str-ex-mc-red)



Question in Context (/ns/books/published/cmsc-210-spring-2023/strings/Exercises.html#str-ex-mc-end)

Not yet graded



Question in Context (/ns/books/published/cmsc-210-spring-2023/strings/Exercises.html#str-ex-mc-hey)

```
11-9-5: What would the following code print?

Mali = 5
print("Mali" + " is " + str(Mali))

A. Mali is Mali

B. Mali is 5

C. 5 is Mali

D. 5 is 5

Check Me Compare me
```

✓ Correct! The first Mali is in quotes, so it will print the string "Mali". The second Mali is not in quotes, so it will print the value of the variable Mali.

Activity: 7.14.5 Multiple Choice (str-ex-mc-name)

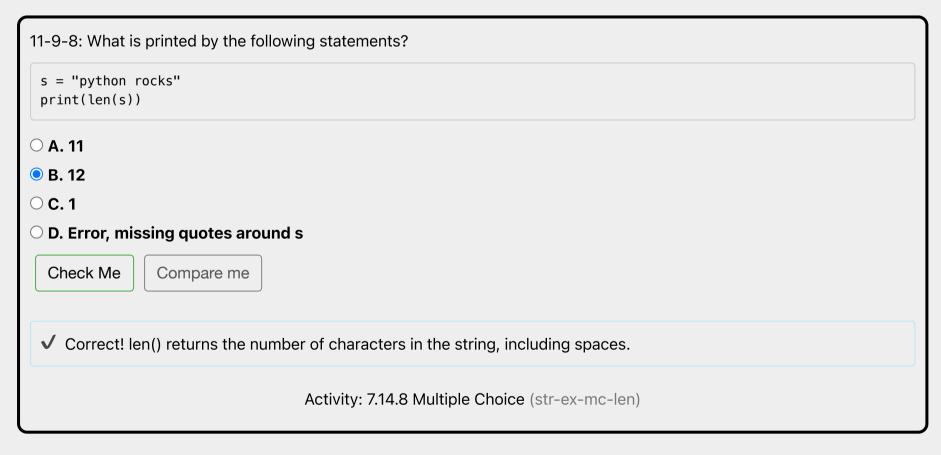
Question in Context (/ns/books/published/cmsc-210-spring-2023/strings/Exercises.html#str-ex-mc-name)

Not yet graded



Question in Context (/ns/books/published/cmsc-210-spring-2023/strings/Exercises.html#str-ex-mc-print)

Not yet graded



Question in Context (/ns/books/published/cmsc-210-spring-2023/strings/Exercises.html#str-ex-mc-len)

Not yet graded

11-9-7: What is printed by the following statements?

```
s = "python is awesome"
print(s[2] + s[-5])

● A. te

B. tw

C. o

D. Error, you cannot use the [] operator with the + operator.

Check Me Compare me

✓ Correct! The indexing operator has precedence over concatenation.

Activity: 7.14.7 Multiple Choice (str-ex-mc-add)
```

Question in Context (/ns/books/published/cmsc-210-spring-2023/strings/Exercises.html#str-ex-mc-add)

Not yet graded

```
11-9-9: What is printed by the following statements:

s = "Rose"
s[1] = "i"
print(s)

A. Rose
B. Rise
C. s
D. TypeError
Check Me Compare me

✓ Correct! Strings are immutable, so you cannot change an existing string.

Activity: 7.14.9 Multiple Choice (str-ex-mc-rose)
```

Question in Context (/ns/books/published/cmsc-210-spring-2023/strings/Exercises.html#str-ex-mc-rose)

```
11-9-10: What is printed by the following statements:

s = "ball"
r = ""
for item in s:
    r = item.upper() + r
print(r)

A. Ball
B. BALL
C. LLAB
D. TypeError
Check Me Compare me

✓ Correct! The order is reversed due to the order of the concatenation.
```

Activity: 7.14.10 Multiple Choice (str-ex-mc-ball)

Question in Context (/ns/books/published/cmsc-210-spring-2023/strings/Exercises.html#str-ex-mc-ball)

Not yet graded

```
Fix line 2 so that it prints "Hi" instead of "hi".
                        Save & Run
                                                                          Show in CodeLens
                                       1/1/2024, 10:42:00 PM - 8 of 8
1 s2 = "hi"
2 print(s2)
3
hi
  Result | Actual Value | Expected Value
                                                    Notes
 ERROR
             None
                                        Error: name 's1' is not defined
                             None
 You passed: 0.0% of the tests
                                       Activity: 7.16.1 ActiveCode (str-ex-hiq)
```

Question in Context (/ns/books/published/cmsc-210-spring-2023/strings/WriteCode.html#str-ex-hiq)

Not yet graded

```
Fix the code so that only "meow" is printed.
                       Save & Run
                                                                      Show in CodeLens
                                     1/1/2024, 10:40:18 PM - 3 of 3
1 sentence = "The cat goes meow."
2 s2 = sentence[13:17]
3 print(s2)
 4
5
 6
meow
 Result | Actual Value | Expected Value | Notes
  Pass
           'meow'
                          'meow'
 You passed: 100.0% of the tests
                                   Activity: 7.16.3 ActiveCode (str-ex-meowg)
```

Question in Context (/ns/books/published/cmsc-210-spring-2023/strings/WriteCode.html#str-ex-meowq)

Create a function named count that accepts a string and a letter as arguments, then returns the count of that letter in the string. For example, if the function call was count("banana", "a") it would return 3. *Hint: use the* count *method*.

```
Save & Run 1/1/2024, 10:39:40 PM - 2 of 2 Show in CodeLens
```

```
1 def count(input_string, letter):
2    return input_string.count(letter)
3 input_string = "banana"
4 target_letter = "a"
5 result = count(input_string, target_letter)
6
7 print(f"The count of '{target_letter}' in '{input_string}' is: {result}")
8
9
```

The count of 'a' in 'banana' is: 3

Result	Actual Value	Expected Value	Notes
Pass	3	3	Tested 'a' in 'banana'
Pass	0	0	Tested 's' in 'pineapple'
Pass	4	4	Tested 'p' in 'pepperoni pizza'
Pass	2	2	Tested 'r' in 'racecar'

You passed: 100.0% of the tests

Activity: 7.16.7 ActiveCode (str-ex-countq)

Question in Context (/ns/books/published/cmsc-210-spring-2023/strings/WriteCode.html#str-ex-countq)

Not yet graded

Take the following Python code that stores this string: string = "X-DSPAM-Confidence: 0.8475". Use find and string slicing to extract the portion of the string after the colon character and then use the float function to convert the extracted string into a floating point number called num.

Save & Run 1/1/2024, 10:38:28 PM - 2 of 2

0.8475

Result	Actual Value	Expected Value	Notes
Pass	0.8475	0.8475	

You passed: 100.0% of the tests

Activity: 7.16.5 ActiveCode (str-ex-floatq)

Question in Context (/ns/books/published/cmsc-210-spring-2023/strings/WriteCode.html#str-ex-floatq)

Not yet graded

Write a function numDigits that will return the number of digits in an integer n.

Save & Run

1/1/2024, 10:37:37 PM - 5 of 5

Show in CodeLens

1 def numDigits(n):

2 return len(str(abs(n))) # abs() is used to handle negative numbers

3 number = 12345

4 digits_count = numDigits(number)

5 print(f"The number of digits in {number} is: {digits_count}")

6

7

The number of digits in 12345 is: 5

Result	Actual Value	Expected Value	Notes
Pass	1	1	Tested numDigits on input of 2
Pass	2	2	Tested numDigits on input of 55
Pass	4	4	Tested numDigits on input of 1352
Pass	3	3	Tested numDigits on input of 444

You passed: 100.0% of the tests

Activity: 7.16.7 ActiveCode (str-ex-digitsq)

Question in Context (/ns/books/published/cmsc-210-spring-2023/strings/WriteCode.html#str-ex-digitsq)

You have marked this assignment Finished. Click to mark it In Progress

This assignment is graded and is no longer accepting submissions. You can still do the work, but it is up to your instructor whether they will accept it or not.

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