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Exercise 6

Exercise 6

30/30 points (graded)

ESTIMATED TIME TO COMPLETE: 20 minutes

As we'll see in subsequent lectures, everything in Python is an *object*. Objects are special because we can associate special functions, referred to as *object methods*, with the object. In this problem you'll be working with string objects, and their built-in methods.

A complete description of the methods available to string objects can be found in the [Python library reference on string methods](#).

In this exercise, we want you to get some experience in using methods as functions. The convention for object methods is to use the "dot" notation, so that if *s* is a string, evaluating *s.upper* will return the actual function, and evaluating *s.upper()* will cause the function itself to be evaluated (in this case it returns a new string, since strings are immutable) with every character now in upper case. An example of this follows:

```
>>> s = 'abc'
>>> s.capitalize
<built-in method capitalize of str object at 0x104c35878>
>>> s.capitalize()
'Abc'
```

For each of the expressions in this problem, specify its type and value. If it generates an error, select type 'NoneType' and put the word 'error' in the box for the value. If it would be a function, select type 'function' and put the word 'function' in the box for the value.

Assume we've made the following assignments:



```
> str1 = 'exterminate!'
> str2 = 'number one - the larch'
```

Assume that the expressions are evaluated in the order shown - that is, each problem part is evaluated directly after the previous problem part(s).

1. str1.upper

function

✓ Answer: function

function

✓ Answer: function

2. str1.upper()

string

✓ Answer: string

EXTERMINATE!

✓

Answer: 'EXTERMINATE!'

3. str1

string

✓ Answer: string

exterminate!

✓

Answer: 'exterminate!'

4. str1.isupper()

boolean

✓ Answer: boolean

False

✓ Answer: False

5. str1.islower()

boolean

✓ Answer: boolean



✓ Answer: True

6. `str2 = str2.capitalize()``str2`

✓ Answer: string

✓

Answer: 'Number one - the larch'

7. `str2.swapcase()`

✓ Answer: string

✓

Answer: 'nUMBER ONE - THE LARCH'

8. `str1.index('e')`

✓ Answer: int

✓ Answer: 0

9. `str2.index('n')`

✓ Answer: int

✓ Answer: 8

10. `str2.find('n')`

✓ Answer: int

✓ Answer: 8



11. `str2.index('!')`

NoneType

✓ Answer: NoneType

error

✓ Answer: error

12. `str2.find('!')`

int

✓ Answer: int

-1

✓ Answer: -1

Note: Be sure to make note of the difference between the `find` and `index` string methods...

13. `str1.count('e')`

int

✓ Answer: int

3

✓ Answer: 3

14. `str1 = str1.replace('e', '*')`
`str1`

string

✓ Answer: string

*xt*rminat*!

✓

Answer: '*xt*rminat*!'

15. `str2.replace('one', 'seven')`

string

✓ Answer: string

Number seven - the larch

✓

Answer: 'Number seven - the larch'



Enviar

i Answers are displayed within the problem

Exercise 6

Ocultar discussão

Topic: Lecture 4 / Exercise 6

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- | | | |
|----------|---|----|
| ? | <u>Difference between 11 and 12??</u>
Can someone explain the difference to me in easy terms please? <code>str.find(sub[, start[, end]]) str.ind...</code> | 2 |
| ? | <u>Q.14</u>
For question 14 my answer was <code>'*xt*rminat*!'</code> . But for some reason, the grader is marking it incor... | 3 |
| 💬 | <u>#9 and #10</u>
Hi TAs, By the time we hit these two questions, <code>s2 = 'Number one - the larch.'</code> This is because we've... | 3 |
| ? | <u>Does anyone know how to ask for help when page does not work?</u>
I have been trying to submit my answers in this exercise all day, but the submit button simply do... | 2 |
| 💬 | <u>Button Submit is not working... something wrong ?</u>
I cannot submit my answers... does anyone experience the same thing? | 6 |
| 💬 | <u>Immutable strings?</u>
I thought strings were immutable and could not be edited like they are in problem 14 and 15? | 4 |
| ? | <u>Question 15 - Why No Swapcase?</u>
Why didn't the swapcase from Question 7 apply to <code>str2</code> in Question 15? | 3 |
| ? | <u>number one - the larch</u>
The grading for exercise 6 implies that it was supposed to be Number one - the larch (the first N i... | 2 |
| ✓ | <u>What is the point of using <code><s.upper></code> without the open brackets?</u>
If the dot notation in <code>***s.upper***</code> returns the "actual function", what does it exactly evaluate? I... | 11 |
| ✓ | <u>Help with question 15</u>
I don't understand how to answer this question. I've tried all possible answers but none of seem t... | 5 |
| 💬 | <u>Error in the initial assignments</u>
To make the answers correct we need to assume that in the initial assumptions <code>""""> str2 = 'numb...</code> | 2 |
| ? | <u>correct answer is also evaluated as incorrect</u>
in some of the questions my answer is the same as the answer shown after pressing 'show answ... | 9 |

? Q 9 & 10

5

why they didn't give the same number like 8 as there is n at the beginning of the string however it...

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