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## Exercise 6

Finger Exercises due Aug 5, 2020 20:30 -03 *Completo*

### 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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-  [Submit button is not working](#) 2  
I have answered the questions but can't submit them as the link is no longer working. As I can't s...
-  [9 and 10](#) 3  
Why are they both 8?
-  [Question 3](#) 3  
Hi, why is str1 not still in uppercase from the previous question? Thanks.
-  [Immutable strings?](#) 5  
I thought strings were immutable and could not be edited like they are in problem 14 and 15?
-  [How is the <str2.find\('!'\)> in question No. 12 evaluated to -1?](#) 7  
I though the \*\*\*find\*\*\* operator is meant to determine the lowest index of a given string. In que...
-  [submit button](#) 2  
Why submit button is not visible?
-  [Having a lot of trouble with the grader. I think my answers are correct?](#) 5  
Part 1: isn't this just the string, unchanged, like it says in the instructions? (ans: exterminate!) Part...
-  [Fun exercise!](#) 3  
This fun exercise. It shows part of the potential of working with python strings. This part for Data ...
-  [Wrong str2](#) 2  
> + str2 = 'number one - the larch' This is the case we have, but actually its 'Number one - the larc...
-  [Q.14](#) 4  
For question 14 my answer was '\*xt\*rminat\*!'. But for some reason, the grader is marking it incor...
-  [Difference between 11 and 12??](#) 3  
Can someone explain the difference to me in easy terms please? str.find(sub[, start[, end]]) str.ind...
-  [#9 and #10](#) 3  
Hi TAs, By the time we hit these two questions, s2 = 'Number one - the larch.' This is because we'v...
-  [Does anyone know how to ask for help when page does not work?](#)



I have been trying to submit my answers in this exercise all day, but the submit button simply do...

2

