


Exercise 6

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Finger Exercises due Oct 26, 2022 16:30 PDT

Completed

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

function

2. str1.upper()

string

EXTERMINATE!

3. str1

string

exterminate!

4. str1.isupper()

boolean

False

5. str1.islower()

boolean

True

6. str2 = str2.capitalize()
str2

string

Number one - the larch

7. str2.swapcase()

string

nUMBER ONE - THE LARCH

8. str1.index('e')

int

0

9. str2.index('\n')

int

8

10. str2.find('\n')

int

8

11. str2.index('!')

NoneType

error

12. str2.find('!')

int

-1

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

13. str1.count('e')

int

3

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

string

*xt*rminat*

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

string

Number seven - the larch

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Exercise 6

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Question 9 and 10

Hi there, I don't understand why the answer to Questions 9 and 10 is 8. I'd say it's ...

2

Errors in questions.

str2 = 'number one - the larch' In Q6 we capitalize the string and then in Q7 we sw...

3

Submit issue

I cannot get the system to let me submit this exercise

3

SPOILER Error on str2.

The first 'n' should be in caps in the question. FYI

7 new9

Q12 Find '!

Why does finding a character that doesn't exist in the string return the value it ret...

3

SPOILER q15

confusion on the answer for Question # 15. why is the answer: Number seven - th...

2

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