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### Exercise 6

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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()

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('l')

NoneType ✓

error ✓

12. str2.find('l')

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', '\*')

string ✓

\*xt\*rminat\*! ✓

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

string ✓

Number seven - the larch ✓

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Exercise 6

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<div><div>**Spoiler** Question 9 and 10</div><div>Hi there, I don't understand why the answer to Questions 9 and 10 is 8. I'd say it's 0. Can you help me understand it?</div></div>	4
<div><div>Why is # 9 and 10 not zero? isn't the n for str2 at s[0]???</div><div>please help!</div></div>	2
<div><div>**SPOILER** Errors in questions.</div><div>str2 = 'number one - the larch' In Q6 we capitalize the string and then in Q7 we swapcase it. - Q6 - Number one - the larch - Q7 - nUMBER...</div></div>	3
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<div><div>**SPOILER** Error on str2.</div><div>The first 'n' should be in caps in the question. FYI</div></div>	9
<div><div>Q12 Find 'l'</div><div>Why does finding a character that doesn't exist in the string return the value it returns?</div></div>	3
<div><div>** SPOILER** q15</div><div>confusion on the answer for Question # 15. why is the answer: Number seven - the larch and not : number seven - the larch why is the first n...</div></div>	2

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