

Courseware Updates & News Calendar Wiki Discussion Progress

L4 PROBLEM 12 (5/5 points)

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. Another useful resource about string methods can be found here.

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:

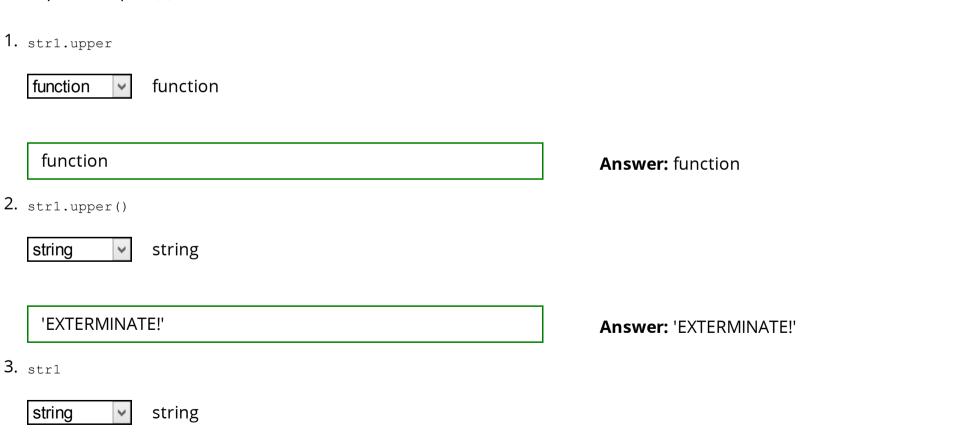
```
>>> s = 'abc'
>>> s.capitalize
<built-in method capitalize of str object at 0x104c35878>
>>> s.capitalize()
'Abc'
```

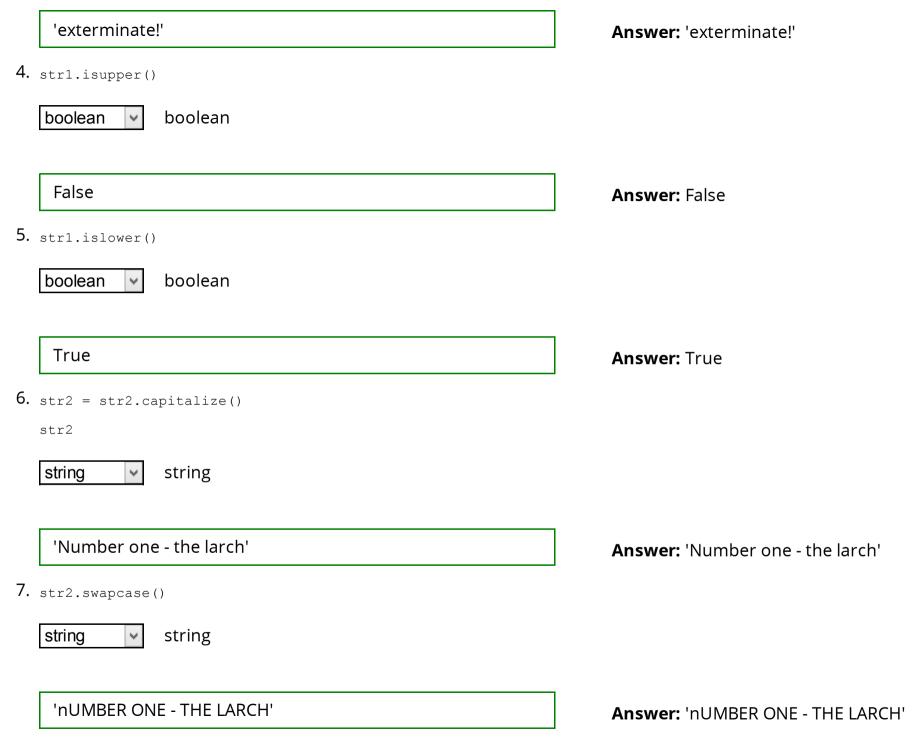
For each of the expressions in this problem, specify its type and value. If it generates an error, select type 'NoneType' and put the word 'error' in the box for the value. If it would be a function, select type 'function' and put the word 'function' in the box for the value.

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).





	str1.index('e')	
	int v int	
	0	Answer: 0
9.	str2.index('n')	
	int v int	
	8	Answer: 8
0.	str2.find('n')	
	int v int	
	8	Answer: 8
1.	str2.index('!')	
	NoneType V NoneType	
	error	Answer: error
2.	str2.find('!')	
	int v int	

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

13. str1.count('e')

int int

3 **Answer:** 3

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

> string string

'*xt*rminat*!'

Answer: '*xt*rminat*!'

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

string string

'Number seven - the larch'

Answer: 'Number seven - the larch'

Check

Hide Answer



New Post



EdX offers interactive online classes and MOOCs from the world's best universities. Online courses from MITx, HarvardX, BerkeleyX, UTx and many other universities. Topics include biology, business, chemistry, computer science, economics, finance, electronics, engineering, food and nutrition, history, humanities, law, literature, math, medicine, music, philosophy, physics, science, statistics and more. EdX is a non-profit online initiative created by founding partners Harvard and MIT.

© 2015 edX, some rights reserved

Terms of Service and Honor Code

Privacy Policy (Revised 4/16/2014)

About edX

About

News

Contact

FAQ

edX Blog

Donate to edX

Jobs at edX

Follow Us

Twitter

Facebook

Meetup

in LinkedIn

g+ Google+