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Strings and Designing Functions

Quiz, 18 questions

1 point		
1.	f the f	ollowing results in a syntax error?
	1	'''yesno'''
	1	'yes\nno'
	1 2	'yes no'
	1 2	"yes no"
1 point		
2. Which of	f the f	ollowing results in a syntax error?
	1	'3\'
	1	'"Once upon a time", she said.'
	1	"He said, "Yes!""
	1	''That's okay'''

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1	
(e int	

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3.

The following is printed by a **print** function call:

```
1 yesterday
2 today
3 tomorrow
```

Select the function call(s) that prints what is shown above.

```
1 print('''yesterday
2 \ntoday
3 \ntomorrow''')

1 print('''yesterday
2 today
3 tomorrow''')

1 print('yesterday\ntoday\ntomorrow')

1 print('yesterday
2 today
3 tomorrow')
```

1 point

4.

The following is printed by a **print** function call:

```
1 hello-how-are-you
```

Select the function call(s) that prints what is shown above.

```
print('hello', 'how', 'are', 'you')

print('hello', '-', 'how', '-', 'are', '-', 'you')

print('hello' + '-' + 'how' + '-' + 'are' + '-' + 'you')

print('hello-' + 'how-are-you')

print('hello', 'how', 'are', 'you' + '-' * 4)
```

1 point

5.

9/25/2018 Learn to Program: The Fundamentals - Home | Coursera Consider this code fragment: Strings and Designing Functions 3 >>> print(instructor_location) 4 5 Canada Select the missing function body from the options below. return country print(country) return instructor_location print('Canada') 1 point 6. Consider this code fragment: >>> def announce location(country): # Missing function body >>> instructor_location = announce_location('Canada') Canada 6 7 >>> print(instructor_location) Canada Select the missing function body from the options below. print(country) return country print(country) print(country) return country return country point 7. Consider the following statements: x = Noneprint(x) What is printed when the code above executes?

None

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1	
€e int	

Strings and Designing Functions

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8.

What is the first step of the *Design Recipe*?

- Examples
- Type Contract
- Test
- Code

1 point

9.

What is the last step of the Design Recipe?

- Type Contract
- () Test
- Examples
- Code

1 point

10.

What is the **Type Contract** for the following function definition?

```
1 def is_passing_grade(grade):
2    """Return 'pass' if grade is at least 50 and return 'fail' otherwise.
3    >>> is_passing_grade(45)
4    'fail'
5    >>> is_passing_grade(80.5)
6    'pass'
7    """
```

- (int, float) -> str
- (float) -> str
- (int) -> str
- (number) -> str

1 point

11

9/25/2018 Learn to Program: The Fundamentals - Home | Coursera What is the **Type Contract** for the following function definition? Strings and Designing Functions def total vowels (word1, word2):
"Return the number of vowels in words word1 and word2.
>>> total_vowels('hello', 'hi') 3 4 3 (str, str) -> float (int) -> str, str (str, str) -> int str == int 1 point 12. According to the **Description** of function get_oldest, what value should be returned by the **Example** function call? def get_oldest(age1, age2):
 ''' (int, int) -> int 3 Return the oldest of the two ages, age1 and age2. 5 6 >>> get_oldest(27, 22) 8 27 1 point 13. Here is an insufficient docstring for function euro_to_dollars: def euro_to_dollars(amount):
 """(number) -> number 2 3 Calculate the value in Canadian dollars of the given quantity of Euros. 4 Identify the problem(s) with the **Description** in the docstring above.

It doesn't mention the parameter types.

It doesn't say what the function returns.

It doesn't mention the parameters by name.

It doesn't explain which Python operators are used to perform the calculation.



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14.

Two function definitions are saved in the same file:

- A function count_vowels has one parameter, a word, and returns the number of vowels in that word.
- A function count_consonants has one parameter, a word, and returns the number of consonants in that word.

To determine the number of letters in a word, write a one-line body for the following function that calls both count_vowels and count_consonants:

```
1 def count_letters(word):
2    """ (str) -> int
3
4    Return the number of letters in word.
5    >>> count_letters('hello')
6    5
7    >>> count_letters('bonjour')
8    7
9    """
10  # Write the one-line function body that belongs here.
```

Note:

- do not call any functions other than those listed above
- · do not use any unnecessary parentheses

return count_letters(word) + count_consona

1 point

15.

Two function definitions are saved in the same file:

- A function get_capital has one string parameter that represents a country and returns its capital.
- A function longer has two string parameters and returns the longer of the two strings.

Variables country1 and country2 refer to str values. Write a one-line <u>expression</u> that produces the longer of the capitals of country1 and country2. Your expression should involve calls on both get_capital and longer.

Note:

- · do not call any functions other than those listed above
- do not use any unnecessary parentheses

return longer(get_capital(country1), get_capi



16.

What is the value of average after the following code is executed? Strings and Designing Functions



- 95.0
- 95
- 85.0
- 85

1 point

17.

Below is an image of the Python Visualizer in action. The line with the red arrow (line 15) is about to be executed. When we press **Forward**, function **convert_to_minutes** will be called, control will move to line 11 of the code (the first line of that function), and a new stack frame will be created containing variable **num_hours**. What value will **num_hours** refer to then? (We are looking for a value, not a memory address.)

(If the image is too small, right-click on it and open it in a new browser tab. Then you can zoom in.)

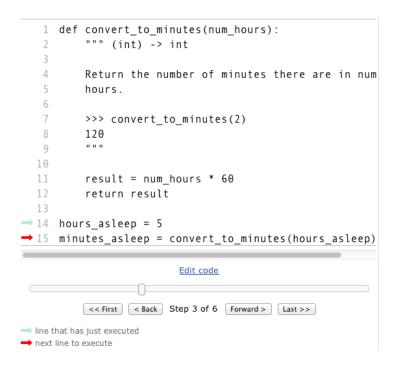
```
def convert_to_minutes(num_hours):
   2
         """ (int) -> int
   3
   4
         Return the number of minutes there are in num
   5
         hours.
   6
   7
         >>> convert_to_minutes(2)
  8
         120
  9
         ....
  10
  11
         result = num_hours * 60
  12
         return result
  13
→ 14 hours_asleep = 5
     minutes_asleep = convert_to_minutes(hours_asleep)
                        Edit code
         → line that has just executed
next line to execute
```



5

1 point 18.

The line with the residence of the code below (we can do this by pressing the Last button) shows many variables (excluding those that refer to functions) will be on the stack? Recall that the stack is represented by the images on the left-hand side of the model. (If the image is too small, right-click on it and open it in a new browser tab. Then you can zoom in.)





() 2

3

4

5



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