

# Review 6

Started: May 23 at 9:20am

## Quiz Instructions

Do not submit your Review until you are sure that your answers are correct.

If you are unsure, it is more fun for everyone if you ask about the question in class. And, of course, you can research the question any way you choose.

You can navigate away from your Review, and come back to where you left off.

But once you submit, your Review is graded and that will be your score.

Good luck!

### Question 1

10 pts

Your dataframe is **df**. Which is true:

- ☐ **df.apply()** applies a function to each entry in a dataframe.
- ☒ **df.applymap()** applies a function to each entry in a row or column.
- ☐ **df.apply()** applies a function to each entry in a row or column.
- ☐ **df.apply()** applies a function to specified entries in the dataframe.

### Question 2

10 pts

You have:

```
colors = 'red', 'orange', 'yellow', 'green', 'blue', 'purple'
def CountVowels(text):
    vowel_count = 0
    for char in text.lower():
        if char in 'aeiou':
            vowel_count += 1
    return vowel_count
```

Which code snippet will return the colors as a list, sorted by the number of vowels in the

color?

- ☐ `sorted(colors, lambda x:CountVowels)`
- ☐ `colors.sort(key=lambda x:x.vowel count())`
- ☐ `sorted(colors, key=lambda x:x.CountVowels)`
- ☒ `sorted(colors, key=CountVowels)`

### Question 3

10 pts

Which is *NOT* true of ***lambda***:

- ☐ A colon separates the input from the output.
- ☐ It is inline functionality.
- ☒ It is a builtin function.
- ☒ It takes the place of function label.

### Question 4

10 pts

The code:

```
print('%'.join([str(x) for x in range(3)]))
```

will produce which answer?

☒ 0%1%2☐ 1%2%3☐ %012☐ %123**Question 5****10 pts**

Which will crash?

☐ Neither.☒

```
def DoThis():
    def Report():
        print(amount)
    amount = 3
    Report()
```

☐

```
def DoThis():
    def Report():
        print(amount)
    Report()
    amount = 3
```

**Question 6****10 pts**

In the loop construction:

```
for result in enumerate('hi'):
    print(result)
```

which is *NOT* true?

- ☒ the code will crash.
- ☐ the loop goes around twice.
- ☐ each **result[1]** is a **str**.
- ☐ each **result** has two values.

**Question 7****10 pts**

Consider this code:

```
result = list(zip("abcd", range(4), (1,2,3)))
```

What is result?

- ☒ `[['a', 0, 1], ['b', 1, 2], ['c', 2, 3]]`
- ☐ `[[a', 0, 1], [b', 1, 2], [c', 2, 3], [d', 3, NaN]]`
- ☐ It will crash.
- ☐ `[(a', 0, 1), (b', 1, 2), (c', 2, 3)] , (d', 3, NaN)]`
- ☐ `[(a', 0, 1), (b', 1, 2), (c', 2, 3)]`

**Question 8****10 pts**

What is the result:

```
[[count] for count in range(5) if count % 2]
```



```
[[0], [2], [4]]
```



```
[0, 2, 4]
```



```
[1, 3]
```



```
[[1], [3]]
```

**Question 9****10 pts**

What is the result:

```
max(["18", "4", "3", "44"], key=lambda x:sum([int(n) for n in x]))
```



69



"9"



Error.



"18"

**Question 10****10 pts**

What is the result:

```
trees = ["cherry", "apple", "banana"]  
trees = trees.sort(key=lambda x:x[-1])  
print(trees)
```

☒ None

☐ ["apple", "banana", "cherry"]

☐ ["banana", "apple", "cherry"]

☐ ['a', 'e', 'y']

Quiz saved at 9:34am

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