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Exercise 6

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Exercise 6

15/15 points (graded)

ESTIMATED TIME TO COMPLETE: 10 minutes

Below are some short Python programs. For each program, answer the associated questions.

Try to answer the questions without running the code. Check your answers, then run the code for the ones you get wrong. You'll learn the most this way, by figuring things out, instead of just running the code and reading off the answers.

```
1. myStr = '6.00x'

for char in myStr:
    print(char)

print('done')
```

1. How many times does `6` print out?



2. How many times does `.` print out?



3. How many times does `0` print out?



4. How many times does `x` print out?



5. How many times does `done` print out?



```
2. greeting = 'Hello!'
count = 0

for letter in greeting:
    count += 1
    if count % 2 == 0:
        print(letter)
    print(letter)

print('done')
```

1. How many times does `H` print out?



2. How many times does `e` print out? Disregard the letters in the word done.



2



3. How many times does 1 print out?

3



4. How many times does o print out? Disregard the letters in the word done.

1



5. How many times does ! print out?

2



6. How many times does done print out?

1



```
3. school = 'Massachusetts Institute of Technology'
numVowels = 0
numCons = 0

for char in school:
    if char == 'a' or char == 'e' or char == 'i' \
        or char == 'o' or char == 'u':
        numVowels += 1
    elif char == 'M' or char == 'I':
        print(char)
    else:
        numCons -= 1

print('numVowels is: ' + str(numVowels))
print('numCons is: ' + str(numCons))
```

1. How many times does o print out? Disregard the o's in last two print statements.

0



2. How many times does M print out?

1



3. What will the value of the variable numVowels be?

11



4. What will the value of the variable numCons be?

-25



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?	Spoiler, help with elif		2
Hello! I can normally work back in the code and materials to see where I went wrong with working out my answers, but for 3.1, I can't...			
💬	If/ Elif		4
3.1. was very useful for me to realize the difference of listing several IF (where they are all evaluated) and IF / ELIF, where Python do...			
✓	How is numCons =25, I am getting it as 24		6
Massachusetts Institute of Technology numCons = s,s,c,h,s,t,t,s,space,n,s,t,t,t,space,f,space,t,c,h,n,l,g,y 24 characters in total			
✓	Question 2 - confused		3
Can someone take me in words or maths through the second question? I don't think I understand. I have tried to lay it out in math, so...			
?	exercise 2 Of 2		2
please would why does the 'l' evaluate to be shown 3 time when it was shown once			
?	Why doesn't numVowels evaluate to '12' in question 3, part 3?		3
Hey all. I had a quick question about exercise number three. In particular, my question is about the way in which the eighth line of co...			
?	Exercises 6 Question 2: How?		2
The counter is never printed. Am I missing something? I don't see any print(count).			
?	3. why numCons count 25		5
Hello, I don't understand why it count 25 'Massachusetts Institute of Technology' ss ch stts Inst t t f T chn l gy. I have only 22 conson...			
?	Are char and letter pre-defined variables in Python?		3
Hi, regarding the recent examples I am wondering how python knows that to do when we write code like "for letter in" or "for char in"...			
💬	I'm confused about the counter in question 2 and 3		2
I'm confused as to what the counter does, could anyone please help explain cheers			

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