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## Exercise 6

### 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  print out?

✓ Answer: 1

2. How many times does  print out?

✓ Answer



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

✓ Answer: 2

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

✓ Answer: 1

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

✓ Answer: 1

```
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?

✓ Answer: 1

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

✓ Answer: 2

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

✓ Answer: 3

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



✓ Answer: 1

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

✓ Answer: 2

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

✓ Answer: 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 == 'o' or char == 'M':
        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.

✓ Answer: 0

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

✓ Answer: 1

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

11



Answer: 11

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

-25



Answer: -25

Enviar

**i** Answers are displayed within the problem

## Exercises 6

Ocultar discussão

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- ? Question 3 part 4** 2  
when does anything get added to numCons? I do not really get how it would go from 0 to 25 if it s...
- what is this "\" in question 3? It's not this "/" or this "/"...** 3  
Does it have any function or is it there just to enrage me?
- ? case sensitivity?** 3  
how is it that 'l' and 'i' can be counted as the same. If I count the number of vowels being case se...
- ? Question 2** 7  
Even though the index of letter ' `h` ' should have been [ 0 ], we start counting with 1 and therefo...
- Question 3** 3  
Question 3 is a little bit challenging. Think as a computer and don't assume you know what are vo...
- ? numCons value** 7  
Hello, I'm trying to grasp the final numCons value. I tested the code and it evaluates to -25. I'm wo...
- Visualize your code** 3  
I use this page to visualize my code. then i get a better understanding of how the code works http...
- ? Can anyone explain the solution for exercise 3?**



	<a href="#">I did not understand exercise 3 solution.</a>	13
?	<a href="#">Question 3 I need help understanding</a> <a href="#">Hi, how come 'o' doesn't get printed? The variable school does contain the character string 'o'.</a>	6
?	<a href="#">Why is question3.4 negative</a> <a href="#">What did I miss? Why is the NumCon(s) negative?</a>	3
💬	<a href="#">Exercise 3</a> <a href="#">Exercise 3 is more of a brain teaser. Think hard about what the computer will actually be countin...</a>	2
?	<a href="#">Problem Q3</a> <a href="#">When I paste the code provided in Spyder, it doesn't run properly. In the last part it says: "M Trac...</a>	2
💬	<a href="#">Feeling</a> <a href="#">So excited to pass this test in one try!!!</a>	3

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