



MITx: 6.00.1x

Introduction to Computer Science and Programming Using Python

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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.

```
myStr = '6.00x'

for char in myStr:
    print(char)

print('done')
```

1. How many times does 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?



```
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.



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



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



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



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



```
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 print out? Disregard the 's in last two print statements.



2. How many times does print out?



3. What will the value of the variable be?



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

-25



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Exercises 6

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?	Final Question numCons Excluding the 'M' (because the elif statement) the number of consonants and spaces is 24, s...	22
?	question 3 the answer should be 12 instead of 11.	4
💬	hint: dont forget about capital letters and spaces in strings helpful for third question	1
?	what is char?what is the meaning of for char in mystr? what is char?what is the meaning of(for char in mystr)?	4
?	Spoiler: what is logic behind at the third example? I think I understand at first and the second examples but couldn't understand what is logic...	3
?	Excercise 3 Help please! I didn't get it, how could there be zero "o" and -25 "numCons" ??	5
💬	Q.no 3.3 No matter how many times i count, I found 12 vowels. But the answer says it's 11. I ran the ...	5
💬	Question about for loop structure Say I have a string s = "MITcourse" and I want to run a for loop on it. What would be the diff...	2
💬	Exercise 3 - Getting an error when running. Hi, In Exercise 3 is anyone else getting the same error when you run this piece of code? print...	2
💬	Lecture 2, Exercise 6, Question 2 Explanation	2
?	Guides for how to handwrite Python Hi, I was wondering if anyone knew of any guides for handwriting Python exercises. I feel lik...	6
?	Clarifying spaces between loops and next commands. In questions 1 and 2, there is a space (return) between the final "print" command within the ...	2
💬	A trick for critical reading One trick I use for proofreading is to read the text backward because your mind will not fill i...	4
💬	to answer correct or incorrect is the output	

