

MITx: 6.00.1x Introduction to Computer Science and Programming Using Python

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L3 PROBLEM 6 (5 points possible)

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.

```
iteration = 0
count = 0
while iteration < 5:
    for letter in "hello, world":
        count += 1
    print "Iteration " + str(iteration) + "; count is: " + str(count)
    iteration += 1</pre>
```

1.	What is the value of the variable count that is	printed out (at the	print	statement) on iteration 0?
2.	What is the value of the variable count that is	printed out (at the	print	statement) on iteration 1?
3.	What is the value of the variable count that is	printed out (at the	print	statement) on iteration 2?
4.	What is the value of the variable count that is	printed out (at the	print	statement) on iteration 3?
5.	What is the value of the variable count that is	printed out (at the	print	statement) on iteration 4?

```
iteration = 0
while iteration < 5:
    count = 0
    for letter in "hello, world":
        count += 1
    print "Iteration " + str(iteration) + "; count is: " + str(count)
    iteration += 1</pre>
```

1.	What is the value of the variable	count that is printed out (at the	print	statement) on iteration 0?
2.	What is the value of the variable	count that is printed out (at the	print	statement) on iteration 1?

	3.	What is the value of the variable count that is printed out (at the print statement) on iteration 2?
	4.	What is the value of the variable count that is printed out (at the print statement) on iteration 3?
	5.	What is the value of the variable count that is printed out (at the print statement) on iteration 4?
	σ.	and the factor and the factor printed out (at the printed out (at the printed out) on its answer.
	hile	ation = 0 e iteration < 5: count = 0
		for letter in "hello, world": count += 1
		<pre>if iteration % 2 == 0: break</pre>
		<pre>print "Iteration " + str(iteration) + "; count is: " + str(count) iteration += 1</pre>
	1.	How many times will the print statement be executed?
	2.	What is the largest value of the variable <code>iteration</code> that will be printed out (at the <code>print</code> statement)?
	3	What is the largest value of the variable <code>count</code> that will be printed out (at the <code>print</code> statement)?
	٥.	what is the largest value of the variable count that will be printed out (at the printed statement):
	4.	What is the smallest value of the variable count that will be printed out (at the print statement)?
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MOOCs are interactive and subjects include computer science, public health, and artificial intelligence.



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