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Exercise 1

Exercise 1

14/14 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.

```
1. iteration = 0
   count = 0
   while iteration < 5:
       # the variable 'letter' in the loop stands for every
       # character, including spaces and commas!
       for letter in "hello, world":
           count += 1
       print("Iteration " + str(iteration) + "; count is: " + str(count))
       iteration += 1
```

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



Answer: 12



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



Answer: 24

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



Answer: 36

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



Answer: 48

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



Answer: 60

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

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



Answer: 12



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



Answer: 12

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



Answer: 12

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



Answer: 12

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



Answer: 12

```
3. iteration = 0
while iteration < 5:
    count = 0
    for letter in "hello, world":
        count += 1
        if iteration % 2 == 0:
            break
    print("Iteration " + str(iteration) + "; count is: " + str(count))
    iteration += 1
```

1. How many times will the `print` statement be executed?



Answer: 5



2. What is the largest value of the variable `iteration` that will be printed out (at the `print` statement)?

✓ Answer: 4

3. What is the largest value of the variable `count` that will be printed out (at the `print` statement)?

✓

Answer: 12

4. What is the smallest value of the variable `count` that will be printed out (at the `print` statement)?

✓ Answer: 1

Enviar

i Answers are displayed within the problem

Exercise 1

Ocultar discussão

Topic: Lecture 3 / Exercise 1

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Feeling very stupid

16

It's getting very hard to me to read the code. When I think I am understanding something, then, I fail...



Break statement

11 new_

Question 3 Hi, Can someone please explain why the break statement is returning 1 instead of 12 for ...



Question 1- confused

4

Have tried in IDE and got the answer, but I really don't understand how python knows that I want to ...









Iteration

3

I've looked up the definition more than once but I am still confused about iteration. When it says iter...



 <u>Wow</u>	5
<u>So glad 2 pass all three questions at first try!</u>	
 <u>the break function</u>	2
<u>i am kinda confused with question number 3. i was thinking the break statement will terminate the o...</u>	
 <u>Question 3 question</u>	2 new_
<u>So I have a question. In question 3, when I run the code, why does the output count alternate betwe...</u>	
 <u>Where does "break" apply?</u>	3
<u>As far as we know, "break" statement applies to both for loop and while loop. But is there a rule in te...</u>	
 <u>Question 2 - I don't get it</u>	3
<u>It's not clear for me how is it that the variable 'count' does not increase with the iterations. Can som...</u>	
 <u>Question 1</u>	6
<u>For the part where it says print("Iteration " + str(iteration) + "; count is: " + str(count)). Why does it say...</u>	

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