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Exercise 7

Exercise 7

5/5 points (graded)

ESTIMATED TIME TO COMPLETE: 10 minutes

Here is some code:

Code Sample

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

We wish to re-write the above code, but instead of nesting a `for` loop inside a `while` loop, we want to nest a `while` loop inside a `for` loop. Which of the following loops gives the same output as the **Code Sample**?

Try to answer the following questions by just reading the code. Reading code is a very good skill to have (and will help you both in your programming career and on your exams!). It is okay to check your answers that you obtain from just reading the code, then in your interpreter run the code for the ones you got wrong on your first attempt.

Test 1



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

☐ Yes, Test 1 gives the same output as the Code Sample

☒ No, Test 1 does not give the same output as the Code Sample



Test 2

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

☐ Yes, Test 2 gives the same output as the Code Sample

☒ No, Test 2 does not give the same output as the Code Sample



Test 3

```
count = 0
phrase = "hello, world"
for iteration in range(5):
    index = 0
    while index < len(phrase):
        count += 1
        index += 1
    print("Iteration " + str(iteration) + "; count is: " + str(count))
```

☒ Yes, Test 3 gives the same output as the Code Sample



☐ No, Test 3 does not give the same output as the Code Sample



Test 4

```
count = 0
phrase = "hello, world"
for iteration in range(5):
    while True:
        count += len(phrase)
        break
    print("Iteration " + str(iteration) + "; count is: " + str(count))
```

☒ Yes, Test 4 gives the same output as the Code Sample

☐ No, Test 4 does not give the same output as the Code Sample



Test 5

```
count = 0
phrase = "hello, world"
for iteration in range(5):
    count += len(phrase)
    print("Iteration " + str(iteration) + "; count is: " + str(count))
```

☒ Yes, Test 5 gives the same output as the Code Sample

☐ No, Test 5 does not give the same output as the Code Sample



Enviar

i Answers are displayed within the problem



Exercise 7

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- | | | |
|---|--|---|
| ? | How does the sample code work?
For iteration 0, how did they derive the count is 12; and then for iteration 1, the count becomes 2... | 6 |
| 💬 | Text 2 Exercise 7
Hi can someone explain why it gives an infinite loop ?? | 7 |
| ? | What does the count += 1 line actually mean?
What does the count += 1 line actually mean? Does it mean the number of times the entire "hello,... | 4 |
| ? | Help with Test 3: How is count += 1 connected to phrase
Why is count +=1 counting the letters in phrase although it is not directed to do that. what I expec... | 2 |
| ? | What does "while true" exactly check?
For test 1, when it says while true, what is it that the computer checking for true or false? the abo... | 7 |
| ? | how did it work?
I didnt understand how did we get that output? I mean how can the count values be 12,24,36.... | 9 |
| ✓ | Test 1
Why does the code for Test 1 give an infinite loop, if there is a range, and a finite # of letters in "h... | 5 |
| ? | Test 4 : while true
I read some answers and from what what I understood (correct me if I'm wrong), the only thing "... | 3 |
| ? | Struggling to understand Test 3 output
I understand the role of expression count += len(phrase) in Tests 4 and 5, but I'm having trouble ... | 8 |
| 💬 | Test 5 do not use a while nested in a for
Hello, I agree that in the 5th exercise the result given is the same as in the sample but non while I... | 4 |
| 💬 | Test 4
How does the Break in Test 4 work, what exactly does it do? i thought that it would take the count ... | 2 |
| ? | # 4 'break'
I checked the code on pythontutor and saw that the 'break' at question 4 doesn't stop the block b... | 2 |
| 💬 | Output for test 3 and 4
Can someone please explain why test 3 and 4 are not giving the same output as the sample? I trie... | 2 |

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