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Exercise 5

Finger Exercises due Aug 5, 2020 20:30 -03 *Completo*

Exercise 5

1/1 point (graded)

ESTIMATED TIME TO COMPLETE: 3 minutes

Consider the following function definition:

```
def foo(x, a):  
    """  
    x: a positive integer argument  
    a: a positive integer argument  
  
    returns an integer  
    """  
    count = 0  
    while x >= a:  
        count += 1  
        x = x - a  
    return count
```

Please select the best glass box test suite for the function `foo` from the following options.

☐ Test Suite A: `foo(2, 5)`, `foo(5, 6)`, `foo(9, 7)`

☒ Test Suite B: `foo(10, 3)`, `foo(1, 4)`, `foo(10, 6)`

☐ Test Suite C: `foo(100, 5)`, `foo(96, 5)`, `foo(22, 5)`



**Explanation:**

In glass box testing, we try to sample as many paths through the code as we can. In the case of loops, we want to sample three general cases:

1. Not executing the loop at all.
2. Executing the loop exactly once.
3. Executing the loop multiple times.

Test Suite B has cases that explores all three loop cases.

Test Suite A only explores paths that execute the loop 0 or 1 times.

Test Suite C only explores paths that execute the loop more than 1 time.

Enviar

i Answers are displayed within the problem

Exercise 5

Ocultar discussão

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- | | |
|--|---|
| ? <u>Does anyone else feel a test case is missing</u>
<u>None of the 3 answers contain a test where x and a are the same value (i.e. foo(5, 5)). Wouldn't it be...</u> | 3 |
| 💬 <u>[SPOILER] - question about the difference</u>
<u>Hey,, could some help me understand what component makes B more appropriate than A. Here is w...</u> | 8 |

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