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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)]
```



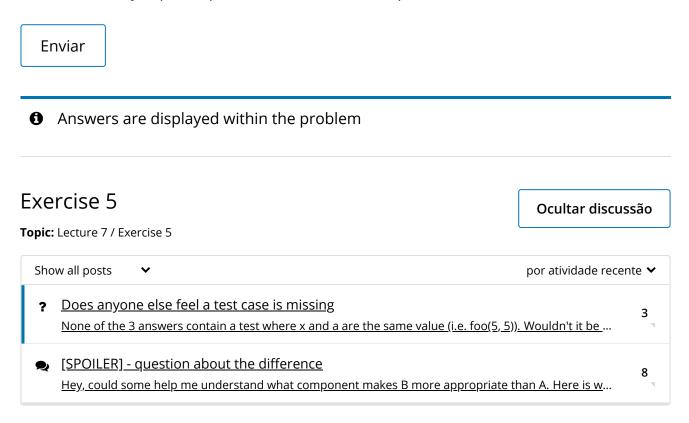
In glass box testing, we try to sample as many paths through the code as we can. In the case of loops, we want to sample three general cases:

- 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.



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