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## Exercise 6

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

### Exercise 6

2/2 points (graded)

**ESTIMATED TIME TO COMPLETE: 3 minutes**

Consider the following function definition:

```
def rem(x, a):  
    """  
    x: a non-negative integer argument  
    a: a positive integer argument  
  
    returns: integer, the remainder when x is divided by a.  
    """  
    if x == a:  
        return 0  
    elif x < a:  
        return x  
    else:  
        rem(x-a, a)
```

When we call

```
rem(2, 5)
```

the shell returns 2. When we call

```
rem(5, 5)
```

the shell returns 0. But when we call



```
rem(7, 5)
```

the shell does not return anything! Using this information, choose what line of code should be changed from the following choices:

☐ `if x == a:`☐ `return 0`☐ `elif x < a:`☐ `return x`☐ `else:`☒ `rem(x-a, a)`

How should this line be rewritten?



**Answer:** `return rem(x-a, a)`

### Explanation:

In the conditional, the final clause contains a recursive call that we never return the results of! Thus the final line - `rem(x-a, a)` - simply needs to be modified such that we return its value. Easy enough! The solution is thus

```
return rem(x-a, a)
```

Enviar

**i** Answers are displayed within the problem

## Exercise 6

Ocultar discussã



Topic: Lecture 7 / Exercise 6

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