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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)</pre>
```

When we call

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

the shell returns 2. When we call

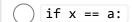
```
rem(5, 5)
```

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:

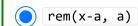














How should this line be rewritten?

return rem(x-a, a)



**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)

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**1** Answers are displayed within the problem

Exercise 6

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Topic: Lecture 7 / Exercise 6



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