



Exercise 6

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## 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?

return rem(x-a, a)



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