On Thursday, February 16th at 6:00AM EST, UTC-5, we will be conducting a brief database maintenance. The event should last about 5 minutes.

Exercise 6

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Exercise 6

2 points possible (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:

Problem Set due Feb 23, 2017 15:30 PST

- Midterm Exam
- Week 5: Object Oriented Programming
- Sandbox

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

How should this line be rewritten?

Submit

Exercise 6

Topic: Lecture 7 / Exercise 6

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