<u>Dates</u>

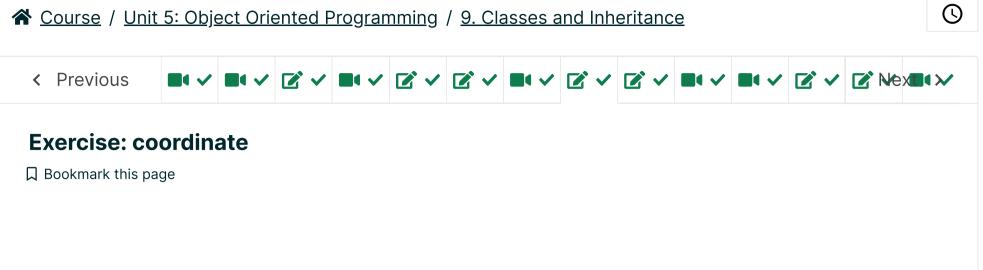
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Finger Exercises due Oct 27, 2022 07:30 +08 Completed

Exercise: coordinate

5.0/5.0 points (graded)

ESTIMATED TIME TO COMPLETE: 7 minutes

Consider the following code from the last lecture video:

```
class Coordinate(object):
    def __init__(self, x, y):
        self.x = x
        self.y = y

def getX(self):
    # Getter method for a Coordinate object's x coordinate.
    # Getter methods are better practice than just accessing an attribute directly return self.x

def getY(self):
    # Getter method for a Coordinate object's y coordinate return self.y

def __str__(self):
    return '<' + str(self.getX()) + ',' + str(self.getY()) + '>'
```

Your task is to define the following two methods for the Coordinate class:

- 1. Add an __eq__ method that returns True if coordinates refer to same point in the plane (i.e., have the same x and y coordinate).
- 2. Define ___repr___, a special method that returns a string that looks like a valid Python expression that could be used to recreate an object with the same value. In other words, eval(repr(c)) == c given the definition of __eq__ from part 1.

For more on __repr__ , see this SO post.

```
1 class Coordinate(object):
      def __init__(self,x,y):
3
          self.x = x
4
          self.y = y
5
6
      def getX(self):
7
          # Getter method for a Coordinate object's x coordinate.
8
          # Getter methods are better practice than just accessing an attribute directly
9
          return self.x
10
11
      def getY(self):
12
          # Getter method for a Coordinate object's y coordinate
13
          return self.y
14
15
      def __str__(self):
```

Press ESC then TAB or click outside of the code editor to exit

Correct

Test results

```
See full output
CORRECT
See full output
```

Submit



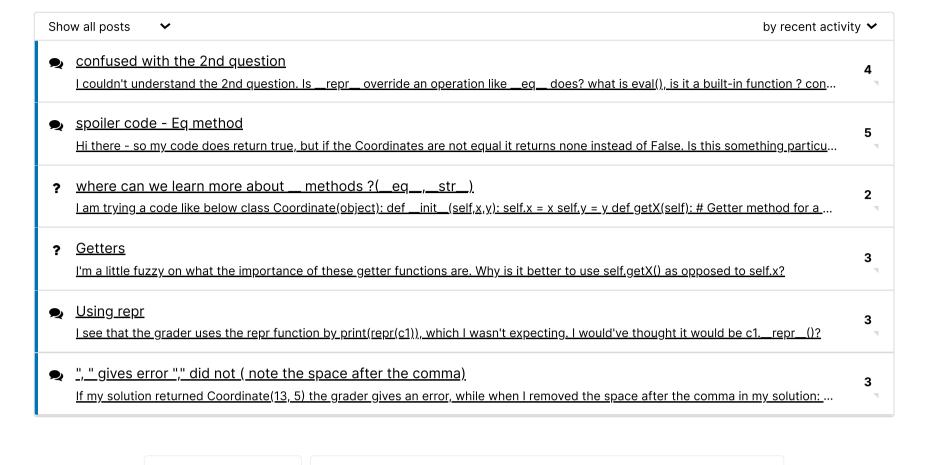
Exercise: coordinate

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