## Solution Review: Implement a Rectangle Class

This lesson covers the Python code to create a simple class with a constructor and attributes.

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we'll cover the following ^
• Solution:
```

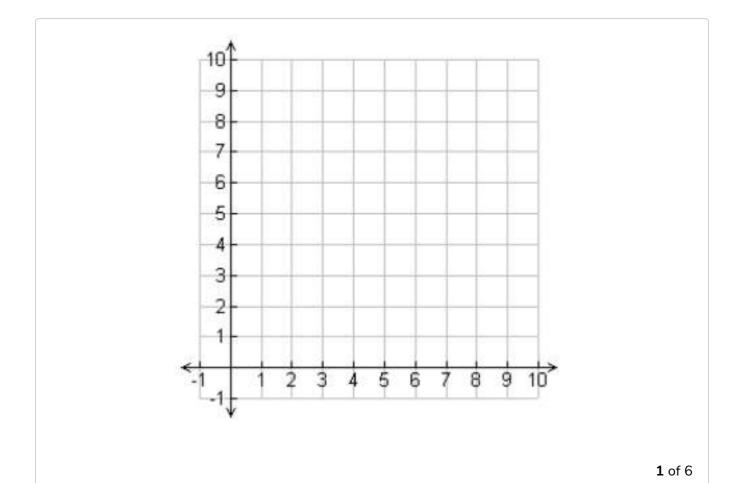
## Solution: #

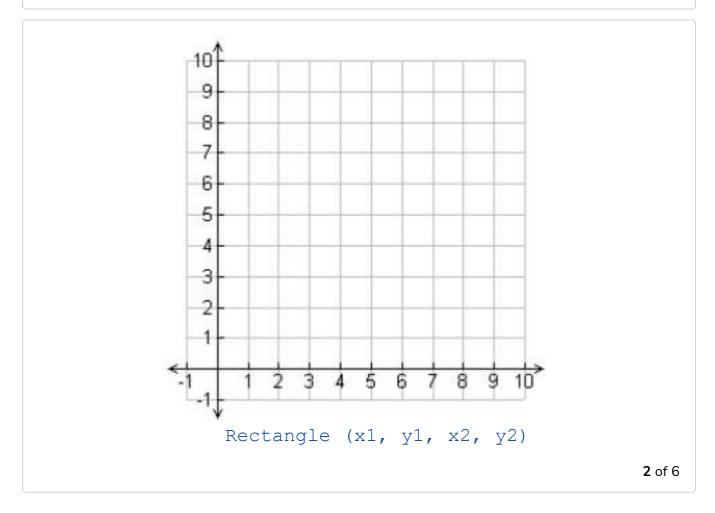
The solution to the exercise in the previous lesson was very simple. It just had a constructor with four attributes as x1, y1, x2, and y2 as the coordinates of the rectangle. The constructor also checks if the **top-left** and **bottom-right** coordinates of the rectangle are correct, i.e., x1 < x2 and y1 > y2. To check the code, we created an object r with the coordinates (2, 7, 8, 4). The solution is shown below:

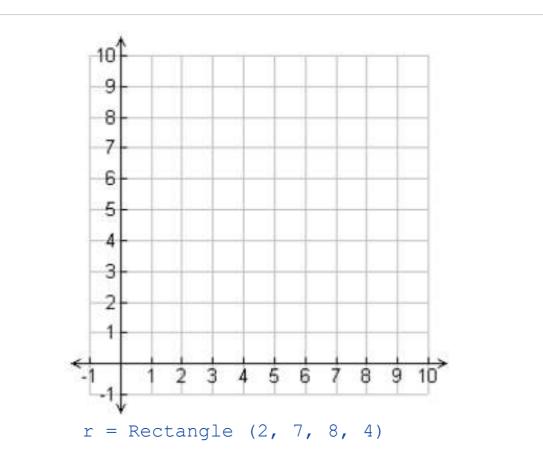
```
class Rectangle:
    def __init__(self, x1, y1, x2, y2): # class constructor
    if x1 < x2 and y1 > y2:
        self.x1 = x1 # class variable
        self.y1 = y1 # class variable
        self.x2 = x2 # class variable
        self.y2 = y2 # class variable
        else:
            print("Incorrect coordinates of the rectangle!")

r = Rectangle(2, 7, 8, 4)
```

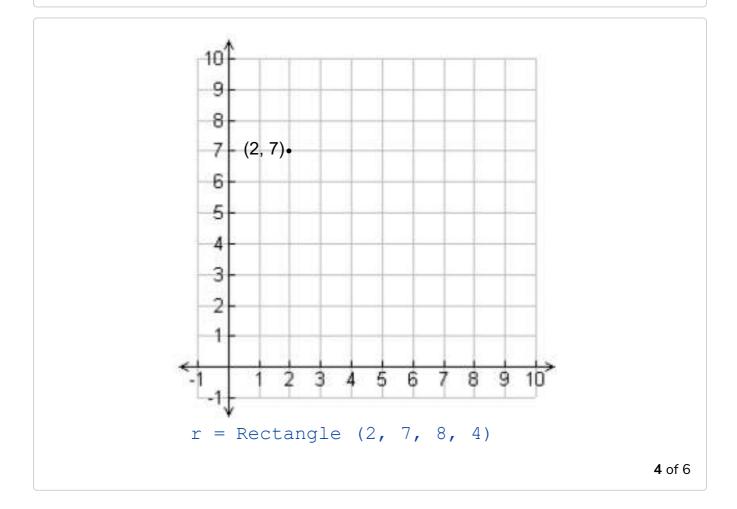
The creation of the rectangle r is illustrated in the following figure:

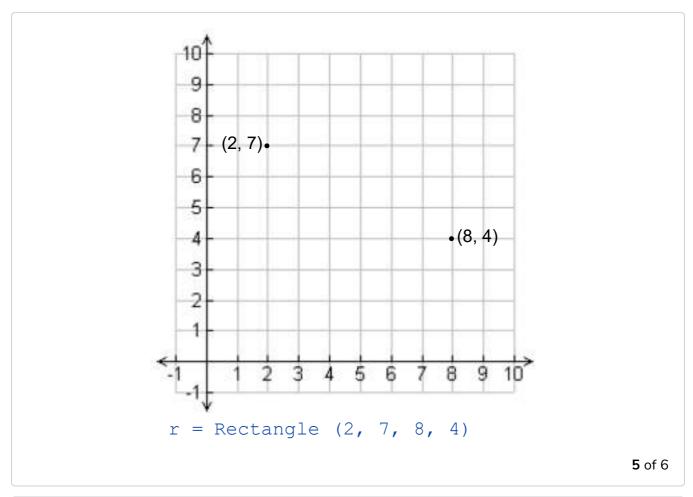


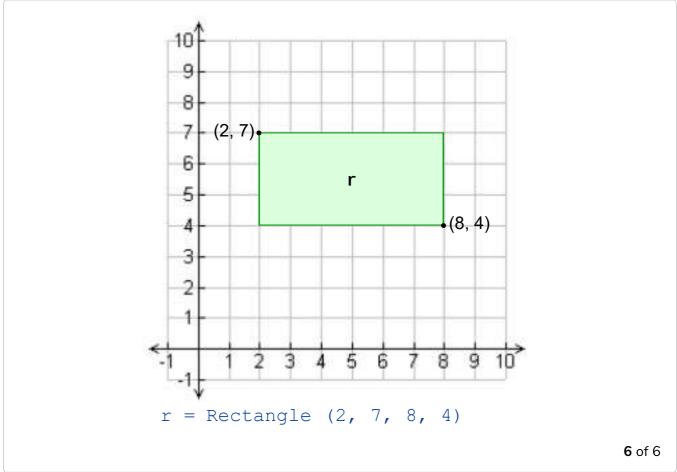




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the Rectangle class.