

I believe failed cases are due to error in website as described below.

Test case 1: PASS

✓ Test case 1 ⚠ Test case 2 ⚠ Test case 3 ✓ Test case 4

<

Input
{3, 3}
{6, 6}
{4, 4}
{7, 7}

Your Result
4

Expected Result
4

Test case 2: FAIL

But it appears to be a mismatch in the inputs generated by the site affecting arguments into parameters in the method.

Write a function to calculate the area of overlap between two rectangles.

Java Difficulty: Expert Challenge XP: 70

Instructions

Each rectangle is represented by a tuple of coordinates for its bottom-left and top-right corners.

Return the overlapping area. If the rectangles do not overlap, return 0.

It can be seen that values are passed incorrectly..... as per co-ordinates....
The signature should have been as follows:
overlappingArea
(int[] rect1BottomLeft,
int[] rect1TopRight,
int[] rect2BottomLeft,
int[] rect2TopRight)

✓ Test case 1 ⚠ Test case 2 ⚠ Test case 3 ✓ Test case 4

<

Input
{-6, -6}
{-5, -5}
{-7, -7}
{-4, -4}

```
import java.util.*;  
public class Solution {  
    public static int overlappingArea(int[] rect1BottomLeft, int[] rect1TopRight, int[] rect2BottomLeft,  
    int[] rect2TopRight) {
```

Test case 3: FAIL

Once again, if the signature was modified, it would provide $(8-4)^2 = 16$

As oppose to $(8-3)^2 =$

Write a function to calculate the area of overlap between two rectangles.

Java

Difficulty: Expert

Challenge XP: 70

Instructions

Each rectangle is represented by a tuple of coordinates for its bottom-left and top-right corners.

Return the overlapping area. If the rectangles do not overlap, return 0.

It can be seen that values are passed incorrectly..... as per co-ordinates.... The signature should have been as follows:

```
overlappingArea  
(int[] rect1BottomLeft,  
int[] rect1TopRight,  
int[] rect2BottomLeft,  
int[] rect2TopRight)
```

Diagram illustrating the coordinates for two overlapping rectangles:

- Rectangle 1 (left): Bottom-left $(-8, -8)$, Top-right $(-4, -4)$
- Rectangle 2 (right): Bottom-left $(-9, -9)$, Top-right $(-3, -3)$

The overlapping area is highlighted in red.

```
import java.util.*;  
public class Solution {  
    public static int overlappingArea(int[] rect1BottomLeft, int[] rect1TopRight, int[] rect2BottomLeft, int[] rect2TopRight) {
```

Test case 1: ✓ Test case 2: ✗ Test case 3: ✗ Test case 4: ✓

Input

```
{-8, -8}  
{-4, -4}  
{-9, -9}  
{-3, -3}
```

Your Result

25

Expected Result

16

Test case 4: PASS

✓ Test case 1

ⓘ Test case 2

ⓘ Test case 3

✓ Test case 4

<

Input

{1, 1}
{4, 4}
{2, 2}
{5, 5}

Your Result

4

Expected Result

4