✓ **Congratulations! You passed!**

Grade received 100%   To pass 80% or higher

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Programming Assignment Quiz (Do programming assignment FIRST)

Latest Submission Grade 100%

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1. Consider the following line of code:

`1 / 1 point`

```
1   map1 = new UnfoldingMap(this, 50, 50, 350, 500,
2                new Google.GoogleMapProvider());
```

What is the y-coordinate which corresponds to the pixel at the *lower left* corner of the map that is created by the line of code above?

Remember that the axis (0,0) for pixels is in the *upper left* corner of the screen and higher y values appear lower on the screen. (This is unlike Cartesian coordinates where higher y values appear higher than the axis (0,0).)

○ 400

○ 350

○ 500

○ 50

◉ 550

✓ **Correct**
550 is the y coordinate of the lower left corner of the map, since positive y points down.

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2. Which of the following lines of code will create two maps of the same height next to each other, side-by-side in the window.

`1 / 1 point`

○
```
1   map1 = new UnfoldingMap(50, 50, 200, 300);
2   map2 = new UnfoldingMap(50, 50, 250, 300);
```

○
```
1   map1 = new UnfoldingMap(50, 50, 200, 300);
2   map2 = new UnfoldingMap(250, 350, 200, 300);
```

◉
```
1   map1 = new UnfoldingMap(50, 50, 200, 300);
2   map2 = new UnfoldingMap(250, 50, 200, 300);
```

✓ **Correct**
map2's upper left coordinate is (250, 50), while map1's upper left coordinate is (50, 50). So map2 will be to the right of map1, but at the same height.

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3. Assume you have some code that creates two maps that are supposed to be displayed side by side in an Applet window. Your code compiles and runs, but only one map shows up in the visible portion of the Applet window when you run it. Which of the following bugs might explain why? **SELECT ALL** the possible mistakes that could be causing this problem.

`1 / 1 point`

☑ Forgetting to call map2.draw()

✓ **Correct**
If you do not call map2.draw, Java will not display the map.

☑ Placing the map2 outside the coordinates of the window

✓ **Correct**
It is possible to specify coordinates so that the map is drawn completely outside the window and the user won't be able to see it.

☐ Forgetting to call zoomAndPanTo on map2

4. Which of the following latitude, longitude pairs, when passed to the method zoomAndPanTo, would cause the map to be centered on Rio de Janeiro, Brazil?   `1 / 1 point`

⦿ -22.9, -43.2

◯ -12.0, -77.0

◯ 25.7, -80.2

◯ -33.9, 18.4

✓ **Correct**
   This is the correct response. Southern latitudes and Western longitudes are represented with negative numbers.

5. What was the most challenging part of this assignment?   `1 / 1 point`

◯ Getting eclipse and Unfolding Maps set up.

◯ Reading and understanding the starter code.

◯ Figuring out what the assignment was asking me to do

◯ Getting the map to show up in the correct place.

◯ Changing the background color of the window.

◯ Getting the syntax right.

◯ Nothing. I found the assignment very straightforward.

⦿ Something else not listed above.

✓ **Correct**

6. How long, total, did you spend on this programming assignment, to the nearest hour? Include only the time you were actively working on the programming assignment   `1 / 1 point`
including time you spent watching support videos or re-watching videos specifically because you needed help on the assignment. Do not include the time you spent
setting up Eclipse/Java, but DO include the time you spent setting up the UnfoldingMaps package.

> 2 hrs

✓ **Correct**
   Thank you for your response.

7. How long, total, did you spend on this programming assignment, to the nearest hour? Include only the time you were actively working on the programming assignment   `1 / 1 point`
including time you spent watching support videos or re-watching videos specifically because you needed help on the assignment. Do not include the time you spent
setting up Eclipse/Java, but DO include the time you spent setting up the UnfoldingMaps package.

◯ Less than 1 hour

⦿ 1-2 hours

◯ 2-3 hours

◯ 3-4 hours

◯ 4-5 hours

◯ More than 5 hours

✓ **Correct**