Using the information you have gained so far, modify the code. Click “Submit Assignment” in the upper right corner of the screen to submit your work. Be sure and save the files as YourNameMod13PictureLabAssignmentEight

**Questions**

1. How many times would the body of this nested for loop execute?

for (int row = 7; row < 17; row++)

for (int col = 6; col < 15; col++)

* 90 times

2. How many times would the body of this nested for loop execute?

for (int row = 5; row <= 11; row++)

for (int col = 3; col <= 18; col++)

* 112 times

**Exercises**

1. Check the calculation of the number of times the body of the nested loop executes by adding an integer count variable to the mirrorTemple method that starts out at 0 and increments inside the body of the loop. Print the value of count after the nested loop ends.

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2. Write the method mirrorArms to mirror the arms on the snowman (“snowman.jpg”) to make a snowman with 4 arms. Write a class (static) test method in PictureTester to test this new method and call it in the main method.

* public void mirrorArms() {
* Pixel topPixel = null;
* Pixel bottomPixel = null;
* Pixel[][] pixels = this.getPixels2D();
* // left arm
* for (int row = 150; row < 190; row++) {
* for (int col = 100; col < 170; col++) {
* topPixel = pixels[row][col];
* bottomPixel = pixels[380 - row][col];
* bottomPixel.setColor(topPixel.getColor());
* }
* }
* Pixel topPixel2 = null;
* Pixel bottomPixel2 = null;
* // right arm
* for (int row = 170; row < 200; row++) {
* for (int col = 240; col < 290; col++) {
* topPixel2 = pixels[row][col];
* bottomPixel2 = pixels[400 - row][col];
* bottomPixel2.setColor(topPixel2.getColor());
* }
* }
* }

3. Write the method mirrorGull to mirror the seagull (“seagull.jpg”) to the right so that there are two seagulls on the beach near each other. Write a class (static) test method in PictureTester to test this new method and call it in the main method.

* public void mirrorGull() {
* Pixel rightPixel = null;
* Pixel leftPixel = null;
* Pixel[][] pixels = this.getPixels2D();
* for (int row = 240; row < 320; row++)
* {
* for (int col = 240; col < 340; col++)
* {
* rightPixel = pixels[row][col];
* leftPixel = pixels[row][450 - col];
* leftPixel.setColor(rightPixel.getColor());
* }
* }
* }