```
Name: _
```

15-121 Fall 2019 Quiz 2

Up to 15 minutes. No calculators, no notes, no books, no computers. Show your work!

1. Short Answer

(a) (2 points) Write two lines of code to generate a random number between 0 and 100 and store it in an integer named myRand.

- (b) (2 points) What is the largest, unsigned value that can be stored in a 3-byte integer? You do not need to reduce your answer.
- 2. (4 points) **Code Tracing:** Indicate what the following program prints. Place your answer (and nothing else) in the box under the code. Note that program has *three* print statements.

```
public class IncrementorExercise {
    public static void main(String[] args) {
        int e = 5;
        int f = 10;
        System.out.println(--e + f++ + e++ + f-- + ++e - --f);
        System.out.println(e);
        System.out.println(f);
    }
}
```

3. (12 points) Free Response: Write the public method printDivisibles which, given a integer maxValue and another integer divisor prints out all positive numbers which are less than or equal to maxValue that are evenly divisible by divisor. It should not print out divisor itself. If the method printed out any values then it should return true. If it didn't print out any values, then it should return false.

Hint: Recall that the modulus operator (%) is used to get the remainder of a division operation.

Consider the following three examples:

	Example 1	Example 2	Example 3
Method Call	<pre>isDivisable(10, 2)</pre>	<pre>isDivisable(10, 3)</pre>	<pre>isDivisable(10, 7)</pre>
Output	4 6 8 10	6 9	
Return Value	true	true	false

public boolean printDivisibles(int maxValue, int divisor) {