HW01 intro2cs

AddTwo:
```
/*
 * Adds two given integers and prints the result in a fancy way.
 */
public class AddTwo {
    public static void main(String[] args) {

        int a = Integer.parseInt(args[0]);
        int b = Integer.parseInt(args[1]);

        System.out.println(a + " + " + b + " = " + (a+b));
    }
}
```

Coins:
```
/*
 * Write a program that gets a quantity of cents as a command-line
argument.
 * The program prints how to represent this quantity using as many
quarters as possible, plus the remainder in cents.
 */
public class Coins {
    public static void main(String[] args) {

         int coins = Integer.parseInt(args[0]);
        int quarters = coins / 25;
        int cents = coins - (quarters * 25);

        System.out.println( "Use " + quarters + " quarters and " + cents
+ " cents");
      }
}
```

LinearEq:
```
/*
 * Solves linear equations of the form a·x + b = c.
 * The program gets a, b, and c as command-line arguments,
 * computes x, and prints the result.
 * Treats the three arguments as well as the computed value as double
values
 */
public class LinearEq {
    public static void main(String[] args) {

        double a = Integer.parseInt(args[0]);
        double b = Integer.parseInt(args[1]);
        double c = Integer.parseInt(args[2]);

        double x = (c - b) / a;

        System.out.println(a + " * x" + " + " + b + " = " + c);
        System.out.println("x" + " = " + x);
    }
}
```

Triangle:
```
/*
 * Three sides can form a triangle if the sum of the lengths of any two
sides is greater than the length of the remaining side.
 * This is known as the Triangle Inequality Theorem.
 * Write a program that tests if three given integers form a triangle.
 */
public class Triangle {
    public static void main(String[] args) {

        int a = Integer.parseInt(args[0]);
        int b = Integer.parseInt(args[1]);
        int c = Integer.parseInt(args[2]);
        int sumab = a + b;
        int sumac = a + c;
        int sumbc = b + c;
        boolean isTriangle = (sumab > c) && (sumac > b) && (sumbc > a);

        System.out.println(a + ", " + b + ", " + c + ": " + isTriangle);
    }
}
```

GenThree:
```
/*
 * Generates three random integers, each in a given range [a,b),
 * prints them, and then prints the minimal number that was generated.
 */
public class GenThree {
    public static void main(String[] args) {

        int a = Integer.parseInt(args[0]);
        int b = Integer.parseInt(args[1]);
        int min = Math.min(a, b);
        int range = Math.abs(a - b);
        int num1 = (int)((Math.random() * range) + min );
        int num2 = (int)((Math.random() * range) + min );
        int num3 = (int)((Math.random() * range) + min );

        int minimum = Math.min(Math.min(num1, num2), num3);
        System.out.println(num1);
        System.out.println(num2);
        System.out.println(num3);

        System.out.println("The minimal generated number was " +
minimum);
    }
}
```