Pair Activity: Command-line arguments, Data types, Computation, Type conversion.

1. Write `Eggsactly.java`. Egg cartons each hold exactly 12 eggs. Write a program which reads an integer number of eggs as an argument, then prints out two numbers: how many cartons can be filled by these eggs, and how many eggs will be left over. For example, the output corresponding to

```
java Eggsactly 27
2 3
```

since 27 eggs fill 2 cartons, leaving 3 eggs left over. Hint: use %.

```java
// Calculates the number of 12-egg carton can you fill with 
// N eggs, and how many of those N will be left over

public class Eggsactly {
    public static void main(String[] args) {
        int n = Integer.parseInt(args[0]); // number of eggs

        System.out.print(________); // number of filled 12-egg cartons
        System.out.print(" ");

        System.out.println(________); // number of eggs left over
    }
}
```
2. Write `PercentScore.java`. Compute your average score on a two-part exam. You will be given 4 command-line arguments:

- The number of questions you got right on the first part
- The total number of questions on the first part
- The number of questions you got right on the second part
- The total number of questions on the second part

Output your percentage score on the exam. For example, for `PercentScore 8 10 15 17` since you got a total of 23 questions correct out of 27 and $23/27 = 0.8518$ you should print 85.18518518518519. You may assume the total number of questions is positive.

```java
// Prints your grade based on the number of answers you
// got right on a two-part exam

class PercentScore {
    public static void main(String[] args) {
        // Your code here
    }
}
```
3. Web Exercise 1.2.1. Write `Distance.java`. Given two `integer` command-line arguments, `x` and `y`, compute the Euclidean distance of the point `(x, y)` from the origin `(0, 0)`. 

\[
distance = \sqrt{x^2 + y^2}
\]

Do NOT use `Math.pow(x, 2)` to compute `x^2`.

```java
/*
 * Compute the distance from (x, y) to the origin.
 */
public class Distance {
    public static void main(String[] args) {
        // input point coordinates
        int x = Integer.parseInt

        // compute distance

        // output distance
    }
}
```
4. Exercise 1.2.34. Write ThreeSort.java. Given three integer command-line arguments, print them in ascending order. Use Math.min() and Math.max().

```java
/*
 * Print the three integer inputs in ascending order.
 */
public class ThreeSort {
    public static void main(String[] args) {
        // Input

        // Compute the order

        // Output in ascending order
    }
}
```

- Recommended Exercises: 1.2.4, 1.2.6, 1.2.9, 1.2.13, 1.2.16, 1.2.20 (hint: study Program 1.2.5 on p. 33), 1.2.30