Inner Class Exercises

1. Define a class named Factorial that has the following methods:

   a. Constructor - Factorial(int lowerLimit, int upperLimit)
   b. toString() – returns a string with the factorials of numbers starting at lowerLimit
      (inclusive) and ending at upperLimit (inclusive). For example, for lowerLimit 2 and
      upperLimit 4 the string returned will be: "2, 6, 24"

2. Write a Driver class with a main method to test your Factorial class.

3. Modify your Factorial class so that the following code will work:

   ```
   Factorial x = new Factorial(4, 13);
   for (Long y : x) {
      System.out.println(y);
   }
   ```

   The output should be:
   24
   120
   720
   5040
   40320
   362880
   3628800
   39916800
   479001600
   6227020800

   Hint: Make the Factorial class implement the Iterable<Long> interface

4. Modify your Driver class to test what you did in part 3.