MultPractice.java **MultPracticeDriver.java** **MultPractice.txt**

This question involves the design of a class that will be used to produce a practice problem. The MultPractice class will produce multiplication practice problems. A MultPractice object is constructed with two integer values: first integer and initial second integer. The first integer is a value that remains constant and is used as the first integer in every practice problem. the initial second integer is used as the starting value for the second integer in the practice problems. This second value is incremented for each additional practice problem that is produced by the class.

For example, a MultPractice object created with the call new MultPractice(7,3) would be used to create the practice problems “7 TIMES 3”, “7 TIMES 4”, and “7 TIMES 5”, and so on.

In the MultPractice class, the getProblem method returns a string in the format of “first integer TIMES second integer”. The nextProblem method updates the state of the MultPractice object to represent the next practice problem. The programmer must use these two methods in their solution to receive credit.

The following MultPracticeDriver is provided to the user:

```
import java.util.*;
import static java.lang.System.*;
import java.io.*;

public class MultPracticeDriver {
      public static void main(String args[]) throws IOException
      {
            Scanner input = new Scanner(new File("MultPractice.txt"));
            ArrayList<MultPractice> list = new ArrayList<>();
            while(input.hasNext())
            {
                  list.add(new MultPractice(input.nextInt(),
                                            input.nextInt()));
            }

            for(MultPractice k:list)
            {
                  MultPractice temp = k;
                  out.println(k.getProblem());
                  k.nextProblem();
                  out.println(k.getProblem());
                  k.nextProblem();
                  out.println(k.getProblem());
                  out.println(k.getProblem());
                  out.println(k.getProblem());
                  k.nextProblem();
                  k.nextProblem();
                  out.println(k.getProblem());
                  k.nextProblem();
                  out.println(k.getProblem());
                  out.println(k.getProblem());
                  k.nextProblem();
                  k.nextProblem();
                  k.nextProblem();
                  k.nextProblem();
                  out.println(k.getProblem());
            }
```

```
        }
}
```

Here is an example of the MultPractice.txt

```
7 3
4 12
```

Here is the output of the previous example

```
7 TIMES 3
7 TIMES 4
7 TIMES 5
7 TIMES 5
7 TIMES 5
7 TIMES 7
7 TIMES 8
7 TIMES 8
7 TIMES 12
4 TIMES 12
4 TIMES 13
4 TIMES 14
4 TIMES 14
4 TIMES 14
4 TIMES 16
4 TIMES 17
4 TIMES 17
4 TIMES 21
```