Classes: StudyPractice FRQ

This question involves the design of a class that will be used to produce practice problems.

The `MultPractice` class produces 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"`, `"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 following examples illustrate the behavior of the `MultPractice` class. Each table shows a code segment and the output that would be produced as the code is executed.

Example 1

Code segment	Output produced
`MultPractice p1 = new MultPractice(7, 3);` `System.out.println(p1.getProblem());`	`7 TIMES 3`
`p1.nextProblem();` `System.out.println(p1.getProblem());`	`7 TIMES 4`
`p1.nextProblem();` `System.out.println(p1.getProblem());`	`7 TIMES 5`
`p1.nextProblem();` `System.out.println(p1.getProblem());`	`7 TIMES 6`

Example 2

Code segment	Output produced
`MultPractice p2 = new MultPractice(4, 12);`	
`p2.nextProblem();`	
`System.out.println(p2.getProblem());`	`4 TIMES 13`
`System.out.println(p2.getProblem());`	`4 TIMES 13`
`p2.nextProblem();`	
`p2.nextProblem();`	
`System.out.println(p2.getProblem());`	`4 TIMES 15`
`p2.nextProblem();`	
`System.out.println(p2.getProblem());`	`4 TIMES 16`

Write the complete `MultPractice` class. Your implementation must be consistent with the specifications and the given examples.