Your first program will require the use of static methods and println statements. This assignment is worth 10 points instead of the normal 20 points. Turn in the file Song.java through the electronic submission system on the course website.

**Program Description:**
You are going to write a Java program that produces as output a *cumulative song* in which successive verses build on previous verses (as described in [http://en.wikipedia.org/wiki/Cumulative_song](http://en.wikipedia.org/wiki/Cumulative_song)). For this assignment, we will use the song “There Was an Old Woman Who Swallowed a Fly.” Your program should produce as output the following song lyrics:

There was an old woman who swallowed a fly.
I don't know why she swallowed that fly,
Perhaps she'll die.

There was an old woman who swallowed a spider,
That wriggled and iggled and jiggled inside her.
She swallowed the spider to catch the fly,
I don't know why she swallowed that fly,
Perhaps she'll die.

There was an old woman who swallowed a bird,
How absurd to swallow a bird.
She swallowed the bird to catch the spider,
She swallowed the spider to catch the fly,
I don't know why she swallowed that fly,
Perhaps she'll die.

There was an old woman who swallowed a cat,
Imagine that to swallow a cat.
She swallowed the cat to catch the bird,
She swallowed the bird to catch the spider,
She swallowed the spider to catch the fly,
I don't know why she swallowed that fly,
Perhaps she'll die.

There was an old woman who swallowed a dog,
What a hog to swallow a dog.
She swallowed the dog to catch the cat,
She swallowed the cat to catch the bird,
She swallowed the bird to catch the spider,
She swallowed the spider to catch the fly,
I don't know why she swallowed that fly,
Perhaps she'll die.

<< Your custom sixth verse goes here >>

There was an old woman who swallowed a horse,
She died of course.

As indicated above, you should include a custom sixth verse that matches the pattern of the first five verses. **You must exactly reproduce this output, including both content and format.** Be sure to check the output carefully, as you may be familiar with a slightly different version of the song.
Most of our assignments will have a creative aspect where you have more flexibility than normal to come up with your own solution. For this assignment, it involves writing a sixth verse that fits the pattern of the first five. For example, some versions of the song have a sixth verse for swallowing a goat (“Just opened her throat to swallow a goat”). Notice that the first two lines should either end in the same word (fly/fly, bird/bird, cat/cat, etc.) or should end with rhyming words (spider/inside her). You are not allowed to simply copy one of the previous animals or to use the verses you’ll find on the web (e.g., goat and cow); you should write your own custom verse. The text of the verse should not include hateful, offensive, or otherwise inappropriate speech.

**Style Guidelines:**

**You are to make use of static methods to avoid the “simple” redundancy. In particular, you are to make sure that you use only one println statement for each distinct line of the song.** For example, this line:

```
Perhaps she'll die.
```

appears several times in the output. You are to have only one println statement in your program for producing this line. The more complex redundancy has to do with pairs of lines like these:

```
There was an old woman who swallowed a horse,
There was an old woman who swallowed a dog,
```

and like these:

```
She swallowed the dog to catch the cat,
She swallowed the cat to catch the bird,
```

It is not possible to avoid this redundancy using just methods and simple println statements, so you are not expected to do so. There is, however, a structural redundancy that you can eliminate with static methods and this will be worth a point. The key question to ask yourself is whether or not you have repeated lines of code that could be eliminated if you structured your static methods differently.

You should also be using static methods to capture the structure of the song. You must, for example, have a different method for each of the seven verses of the song (verses are separated by blank lines in the output). As a result, you will not have any println statements in main except perhaps a println that produces a blank line.

You are not allowed to use more advanced features than what we have covered in class. For this assignment, you should limit yourself to the Java features covered in chapter 1 of the textbook. **You should not use System.out.print() statements even though they are covered in chapter 1.**

**You should include a comment at the beginning of your program** with some basic identifying information and a description of the program. Your comment should look something like this (but should include your name and TA):

```java
// Miya Natsuhara
// 7/2/2019
// CSE142
// TA: Grace Hopper
// Assignment #1
//
// This program will...
```

You should name your file Song.java and turn it in electronically from the homework link on the class web page. If you have difficulty using the turn-in system, you can ask your TA for help or visit the IPL.