

As annoying to program as it is to sing.....

The assignment is to write a class named `TwelveDays` that contains a method named `sing` that when invoked, outputs the song the “The Twelve Days of Christmas” as many times as specified when the object was created. For example:

```
TwelveDays tDays = new TwelveDays(2);  
tDays.sing(); // will output the song twice
```

The Twelve Days of Christmas

On the first day of Christmas, my true love gave to me...
A Partridge in a Pear Tree.

On the second day of Christmas, my true love gave to me...
2 Turtle Doves
And a Partridge in a Pear Tree.

On the third day of Christmas, my true love gave to me...
3 French Hens
2 Turtle Doves
And a Partridge in a Pear Tree.

...and so forth, until the last verse:

On the twelfth day of Christmas, my true love gave to me...
12 Drummers Drumming
11 Pipers Piping
10 Lords-a-Leaping
9 Ladies Dancing
8 Maids-a-Milking
7 Swans-a-Swimming
6 Geese-a-Laying
5 Gold Rings
4 Colly Birds
3 French Hens^[4]
2 Turtle Doves
And a Partridge in a Pear Tree.

And again as needed...

Remember, this is not a typing class! Think loops!
You do not need to worry about outputting in center format!

Name: _____ **email:** _____

Note: For full credit be sure to follow proper programming standards including proper use of comments, descriptive variable names and consistent alignment and indentation techniques.

Below is a skeleton of the class that needs to be written. As you can see, the skeleton below provides several class level members which you can (and should) use in your implementation of the `sing` method.

In addition to implementing the method `sing`, we also want to include a method that when invoked will output the **total** number of times that the song was “sung” across all instances created (think about this...). For example:

```
TwelveDays tDays = new TwelveDays(2);
tDays.sing();           // will output the song twice
tDays = new TwelveDays(5); // creates a new instance
tDays.sing();           // will output the song 5 times
// total number of times the song was output was 7
```

```
public class TwelveDays {
    // Class level member declarations - fill in the blanks
    _____ String[] days =
        { "first", "second", "third", "Fourth", "fifth"
          , "sixth", "seventh", "eighth", "ninth", "tenth"
          , "eleventh", "twelfth" };
    _____ String[] gifts =
        { "Partridge in a Pear Tree!", "Turtle Doves"
          , "French Hens", "Colly Birds", "Gold Rings"
          , "Geese-A-Laying", "Swans A Swimming"
          , "Maids a Milking", "Ladies Dancing"
          , "Lords a Leaping", "Pipers Piping"
          , "Drummers Drumming" };
    _____ String message =
        "On the day of Christmas, my true love sent to me...";

    // Complete the class...

}
}
```

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