

Learning Goals

1. Practice creating and using your own functions/methods.
2. Be able to follow the flow of code execution between functions/methods.

Business Goal

In this practice assignment, your code will print the lyrics to a song – without you retyping the repeating words multiple times. You'll create a **method** to hold the **repeated part** and call it each time you need those lines to print.

“This Old Man” is a song about making music by playing sheep bones as a rhythm instrument; the song originates in the 1870s. Here's a sample output for your program.

```
This old man, he played one.  
He played knick-knack on my thumb;  
With a knick-knack paddywhack,  
Give the dog a bone,  
This old man came rolling home.
```

```
This old man, he played two.  
He played knick-knack on my shoe;  
With a knick-knack paddywhack,  
Give the dog a bone,  
This old man came rolling home.
```

```
This old man, he played three.  
He played knick-knack on my knee;  
With a knick-knack paddywhack,  
Give the dog a bone,  
This old man came rolling home.
```

```
This old man, he played four.  
He played knick-knack on my door;  
With a knick-knack paddywhack,  
Give the dog a bone,  
This old man came rolling home.
```

```
This old man, he played five.  
He played knick-knack on my hive;  
With a knick-knack paddywhack,  
Give the dog a bone,  
This old man came rolling home.
```

```
This old man, he played six.  
He played knick-knack on my sticks;  
With a knick-knack paddywhack,  
Give the dog a bone,  
This old man came rolling home.
```

Planning Your Code

1. Identify the part of the song lyrics that are repeated. Where are all the locations they're repeated?
2. Write a method that prints just the repeated part of the lyrics (and prints it only once).
3. Write a main() that contains the non-repeated lyrics, and calls the function for the matching repeated lines each time they're needed.
4. Make sure your program compiles, runs, and is complete.
5. Verify that the lyrics all print correctly, including blank lines between verses.

This should be a fairly easy assignment. Its purpose is to get you using methods/functions, and understanding the code path back and forth.

Coding Syntax Examples - Reference Guide

```
public class Whatever {  
    public static void theFunctionName()  
    {  
        // do stuff here  
    }  
  
    public static void main(String[] args)  
    {  
        // call a function  
        theFunctionName();  
    }  
}
```