Chapter 4 - 4.11 Exercises - Exercise 1

```
pre03/test.java ×

 1   import java.io.*;
 2   import java.util.*;
 3
 4 ▼ public class test {
 5
 6 ▼   public static void zoop() {
 7       baffle();
 8       System.out.print("You wugga ");
 9       baffle();
10   }
11
12 ▼ public static void main(String[] args) {
13       System.out.print("No, I ");
14       zoop();
15       System.out.print("I ");
16       baffle();
17   }
18
19 ▼ public static void baffle() {
20       System.out.print("wug");
21       ping();
22   }
23
24 ▼ public static void ping() {
25       System.out.println(".");
26   }
27     }
```

```
~/cohort-3-prework-theawilliams19/pre03$ java test
No, I wug.
You wugga wug.
I wug.
~/cohort-3-prework-theawilliams19/pre03$ █
```

Main method prints "No, I" (line 13) then it invokes zoop (line 6).

Zoop (line 7) invokes baffle (line 19).

Baffle (line 20) prints "wug", then it invokes the ping method (line 21).

Ping prints period (line 25).

Control returns to the baffle method (line 21) because this method was the method that invoked it just prior.

Control returns to the zoop method (line 7) because this method was the method that invoked it just prior.

The zoop method prints "You wugga" (line 8).

The zoop method invokes the baffle method again (line 9).

The baffle method prints "wug" (line 20).

The baffle method then invokes the ping method (line 21).

The ping method prints a period (line 25).

Control returns to the baffle method (line 21) because this method was the method that invoked it just prior.

Control returns to the zoop method (line 9) because this method was the method that invoked it just prior.

There is no more code to run in zoop, so control returns to the main method (line 15) because this method was the method that invoked it just prior.

The main method prints "I" (line 15).

The main method invokes the baffle method (line 16).

The baffle method prints "wug" (line 20).

The baffle method invokes the ping method (21).

The ping method prints the period (line 25).

The ping ends.

Control returns to the baffle method (line 21).

Baffles ends, so it returns to main, because that is the method that previously invoked it.

The main method ends and therefore the program ends.