1. Convert the following for loop into an equivalent set of instructions that only uses one while loop and no other types of loops.

    ```java
    for(int i = 0; i < 45; i++) {
        System.out.println("Looping");
    }
    ```

2. How many times do the following loops execute?

    (a) ```java
        for(int i = 1; i < 5; i++) {
            . . .
        }
    ```
    (b) ```java
        for(int i = 0; i <= 12; i += 2) {
            . . .
        }
    ```
    (c) ```java
        for(int i = 0; i > 0; i--) {
            . . .
        }
    ```
    (d) ```java
        do {
            . . .
        } while (false);
    ```

3. Write nested for loops that print the following pattern to the screen. You may only have three System.out.print() calls: System.out.print("*"), System.out.print(" "), and System.out.println(""), each written only once. Hint: Use one loop to keep track of the current line, one to print spaces, and one to print stars.

   ```
   *
   ***
   *****
   ******
   ********
   ```

4. Write a code fragment to randomly generate an integer value between 1 and 11. (You need not write a class or method; just the lines of code relating to this specific task.)