

Building Java Programs

Chapter 1 Lab Handout

Static Methods

1. What is the output of the following Java program?

```
public class Confusing {
    public static void method1() {
        System.out.println("I am method 1.");
    }

    public static void method2() {
        method1();
        System.out.println("I am method 2.");
    }

    public static void method3() {
        method2();
        System.out.println("I am method 3.");
        method1();
    }

    public static void main(String[] args) {
        method3();
        method1();
        method2();
        method3();
        method2();
        method1();
    }
}
```

Response:

2. Write a complete Java program that produces the following as its output. Use static methods to capture the structure and eliminate redundancy from the output. There should be no `println` statements in your main method except ones for a blank line, if needed.

Create a static method for each of the three main figures to capture the program's structure, and also create static methods for the repeated portions of each figure, to capture the program's redundancy. **No unique print nor println statement should be used in more than one location in your code.**

Write a comment above your class header and above each method header.

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