Section Activity #3: What's the Output?

Your Names: __________________________

Directions: In groups of two (or three, if need be), complete the following activity. This section activity will be graded; all students in the group will receive the same score. Make sure that the names of all group members are on the page you submit to your section leader.

Task: The program shown below is a syntactically-correct Java program. What will it output if compiled and executed? (No, you can't run Java to find out; pretend this is the exam.)

```java
public class Sa03 {

    private static String exchange (String message, int location, String replacement) {
        String temp = message.substring(0,location);
        System.out.println("In exchange: temp = " + temp);
        message = temp + replacement + message.substring(++location);
        return message;
    }

    private static String swap (String message, int start, int end, String replacement) {
        StringBuilder temp = new StringBuilder(message);
        temp.delete(start,--end);
        System.out.println("In swap: temp = " + temp);
        temp.insert(start,replacement);
        return temp.toString();
    }

    public static void main (String [] args) {
        String message = "I unwrapped a message for you."
        message = exchange(message, 14, "a");
        System.out.println("In main: message = " + message);
        message = exchange(message, 13, "p");
        System.out.println("In main: message = " + message);
        message = swap(message, 2, 5, "m");
        System.out.println("At end of main: message = " + message);
    }
}
```