1. Consider the following function:

   ```java
   public int changer(String x, int y) {
     x = x + "castle";
     y = y * 3;
     return y + 6;
   }
   ```

   The function is called via the following code:

   ```java
   String s = "sand";
   int n = 5;
   n = changer(s, n)
   ```

   a. (2 points) What type of value will the function `changer` return?
      ```
      int
      ```

   b. (2 points) What does it mean if a function has a return type of `void`?
      ```
      doesn't have a return type/doesn't return a value
      ```

   c. (10 points) What values are assigned to variables `s` and `n` when the above code finishes?
      ```
      n will be 21
      s will be "sand"
      ```
2. (36 points) Assume the following code compiles and runs as written. What is the output when the code is run?

```java
public static String method1(int two, String three) {
    if (two < 4) {
        System.out.println("one");
        return three;
    }
    else {
        return (method2(three));
        System.out.println("three");
    }
}
public static String method2(String two) {
    return "two";
    System.out.println(two);
}
public static void main(String[] args) {
    String one = "two";
    String two = "four";
    String four = "one";
    System.out.println(one);
    System.out.println("four");
    System.out.println(method1(3, four));
    System.out.println(method1(4, two));
}
```

two
four
one
one
two