1) Consider the following method. What value is returned by the call `eval("jamjarjax", "ja")`?

```java
int eval(String str, String check) {
    int m = str.length/2;
    String a = str.substring(0, m);
    String b = str.substring(m);
    return a.indexOf(check) + b.indexOf(check);
}
```
2) Consider the following code. What will be printed?

```java
void mystery(String str) {
    if (str.length() < 4) {
        println("D");
    } else {
        print(str.substring(0, 1));
        mystery(str.substring(1));
        print(str.substring(0, 1));
    }
}
mystery("BELLE");
```
3) Write a function `int lastIndexOf(String str, String substr)`, which returns the starting index of the last occurrence of `substr` in `str`.

4) Write a program that splits the numbers in the given `myNums` string, converts them to floats, and prints them to the console. You may assume that all the numbers are comma+single-space separated and they are all floats. However, your code should work for arbitrary many numbers and numbers with an arbitrary number of integer and floating-point positions.

```java
void setup() {
    String myNums = "1.2345, 2.3, .345, 4.0, 5.123345678";
    // Add your code here
}
```

5) Finish the following program, which was designed to count and print the number of duplicate strings in the `myArray` string array.

```java
// Count and print the number of duplicates in `myArray`
void setup() {
    int count = 0;
    // Add code here
    println("There are " + count + " duplicates.");
}
```

6) Write a recursive function `boolean palindrome(String str)` that takes a `String` argument `str` and returns `true` if `str` is a palindrome and `false` otherwise.