

6.2 Programming Assignment:

For this programming assignment, you will implement three different methods involving arrays.

Method #1: newArray

The *newArray* method will create a new array, fill each element of the array with a string, and return the new array. The method will take in two parameters. The first parameter needs to be an integer that will determine the size of the array. The second parameter needs to be the string that will be used to fill each element of the array.

Example usage:

```
String[] helloArray = newArray(4, "Hello!");
```

This line of code should create a new array that looks like this:

```
{"Hello!", "Hello!", "Hello!", "Hello!"}
```

Method #2: printEvens

The *printEvens* method will take in an array of integers and print out only the even numbers on one line. Only one parameter is required, an array of integers, and no return type is necessary.

Example usage:

```
int[] nums = {1, 2, 3, 2, 2, 8, 8, 6, 7};  
printEvens(nums);
```

This should print the following into the console:

```
222886
```

Method #3: resizeArray

The *resizeArray* method should take in an integer array, and return a new array with the same values but with its length doubled. One integer array parameter is necessary and the method should have an integer array return type.

Example usage:

```
int[] nums = {1, 2, 3};  
nums = resizeArray(nums);
```

This should result in the array *nums* having the following values:

```
{1, 2, 3, 0, 0, 0}
```
