Lab 7

Instructions: Fill in blank functions to complete various array operations.

Objectives:

- Continued practice with integer arrays.
- Continued practice with functions/function calls.
- Continued practice with loops and/or recursion.

Task: Download the source file Lab7.c. This file contains several incomplete functions which should be filled in to meet the following specifications:

- `void printArr(int arr[ARRAY_SIZE]);` Prints each element in `arr`, then prints a newline character.
- `int isIncreasing(int arr[ARRAY_SIZE]);` Returns 1 if the elements in `arr` are increasing (each element is larger than the previous element), or 0 if they are not increasing.
- `int isDecreasing(int arr[ARRAY_SIZE]);` Returns 1 if the elements in `arr` are decreasing (each element is smaller than the previous element), or 0 if they are not decreasing.
- `int getMax(int arr[ARRAY_SIZE]);` Returns the highest value found in `arr`.

Do not modify the `main` function. Once the above functions are correctly filled in, the program should run as follows:

```
/home/user/CIS190/Lab7$ ./Lab7.out
arr1:     2    4    6    8   10
Increasing? Yes
Decreasing? No
Max? 10

arr2:     9    7    5    3    1
Increasing? No
Decreasing? Yes
Max? 9

arr3:     3   27  243    9   81
Increasing? No
Decreasing? No
Max? 243
```

Figure 1. Correct outputs for `Lab7.c`.

Submission details:

- Upload a compressed archive (e.g., .zip) containing `Lab7.c`.
- The archive should be named `Lab7_LastName`, where `LastName` is your last name.
- If you're on Linux, you can use the following command to create a .tar.gz archive from the terminal:

  ```
  $ tar -czvf Lab7_LastName.tar.gz Lab7.c
  ```

  where `LastName` is your last name.