Lab #2

CS-2050

September 9, 2022

1 Requirements

In this lab, you will cover memory allocation, as well as freeing allocated memory. Remember that whenever you allocate memory, you must *always* check that it is not NULL.

Test code is provided that you may optionally use.

1.1 makeArray

```
int * makeArray(int size);
```

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Info: This function will take an integer representing the size of array to allocate. It will then allocate the array, and if successful, initialize it with 0 in each index. If the array was successfully allocated the function will return a pointer to it, otherwise the function will return NULL.

1.2 fillFives

```
void fillFives(int *array, int size);
```

Info: This function will take an integer array, as well as an integer representing the size of the array. It will fill the array with multiples of 5 in increasing order starting with 0 (IE: 0, 5, 10, 15, ...).

1.3 freeArray

```
void freeArray(int **array);
```

Info: This function will take a double pointer to an integer array, and free the memory allocated to the array. The function should also set the array pointer to NULL after freeing.

Notice



Grading:

- 1. Write required makeArray function
 - * 3 points
- 2. Write required fill function
 - * 1 point
- 3. Write required free function
 - * 2 points

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Notice:

- 1. All of your lab submissions must compile under GCC using the -Wall and -Werror flags to be considered for a grade.
- 2. You are expected to provide proper documentation in every lab submission, in the form of code comments. For an example of proper lab documentation and a clear description of our expectations, see the lab policy document.