**Assignment 1: CS 303**

Nate Purcell

13 Feb 2023

*Instructions:*

This program is designed to create a pre-populated array and perform a series of sequential functions and ending after each function has been invoked.

Step1: Provide an integer and the program will check to see if it is the same as one of the values within the array. If it is, the program will return the index of the storage location in the array and output the array after.

Step 2: Provide an integer and a location you would like your integer to be stored. The program will then change the array accordingly and output the updated array.

Step 3: Provide an integer and it will be added to the next available slot at the end of the array.

Step 4: Provide an index within the array. The program will replace whatever value is at that index with a 0.

Please see below for a sample output of the program’s execution.

