

## Assignment # 02

### CSE225L: Data Structures and Algorithm Lab

**Please read each of the following instructions carefully before proceeding to the questions:**

- After performing each task take a **whole window** screenshot of the output of each task.
- Put only the **relevant** project files (main.cpp/screenshot/header files) in a folder.
- Rename the folder as **ID\_Name\_AssignmentNumber** (eg. 1620000042\_Bob Alice\_A2)
- Upload the folder in your own google drive and create a link (sharing option should not be Restricted)
- Copy and Paste the link then press the Turn In button.
- Once you submit the assignment, do not delete the folder from google drive or Unsubmit.
- Failure to meet any of these requirements will incur a **100% penalty**.
- Late Submission will incur a 25% penalty per day.
- If you plagiarize in any way, your submission will be rejected and you will get straight 0.
- This assignment contains 10 points in total.

#### Tasks:

You need the implementation of the following classes.

1. Unsorted List (Array Implementation)
2. Sorted List (Array Implementation)

You need to modify the implementations of these classes so that no duplicate value is stored in the list. Additionally, modify it such that at most six values can be stored in these lists.

In the driver file, create two lists objects; one of them is UnsortedList, and the other should be SortedList. Insert the following values in both lists.

1	1	0	5	0	2	1	5	4	1	5	4	3
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Now print the lists.

**Mark distribution:** Successful modifications of each class carry 3 points each. For creating the objects and performing other operations on the objects successfully, you will get 1 point for each object. Therefore, in total, 4 points are allocated for each class.