# COIS 2020H-Data Structures & Algorithms

Winter 2024

**Assignment 2 (15 %)**

# Submission template.

**YOUR NAME: Dikshith Reddy Macherla STUDENT ID: 0789055**

**Fill out the following tables**

1. ArrayList. One box for each method

|  |
| --- |
| **Paste your code for the constructor** |
| **Paste your code for the Private Grow:** |
| **Paste your code for the AddFront:** |
| **Paste your code for the AddLast:** |
| **Paste your code for the GetCount:** |
| **Paste your code for the InsertBefore**: |
| **Paste your code for the InPlaceSort:** |
| **Paste your code for the Swap(index1, index2):** |
| **Paste your code for the DeleteFirst:** |
| **Paste your code for the DeleteLast:** |
| **Paste your code for the RotateLeft:** |
| **Paste your code for the RotateRight:** |
| **Paste your code for the Merge:** |
| **Paste your code for the StringPrintAllForward:** |
| **Paste your code for the StringPrintAllReverse:** |
| **Paste your code for the Deleteall** |

1. LinkedList One box for each method

|  |
| --- |
| **Paste your code for the constructor** |
| **Paste your code for the AddFront:** |
| **Paste your code for the AddLast:** |
| **Paste your code for the GetCount:** |
| **Paste your code for the InsertAtRandomLocation**: |
| **Paste your code for the Merge** |
| **Paste your code for the FindClosest** |
| **Paste your code for the FindDistance** |
| **Paste your code for the DeleteFirst** |
| **Paste your code for the DeleteLast** |
| **Paste your code for the GetEaten** |
| **Paste your code for the RotateLeft** |
| **Paste your code for the RotateRight** |
| **Paste your code for the StringPrintAllForward** |
| **Paste your code for the StringPrintAllReverse** |
| **Paste your code for the DeleteAll** |

1. Main:

|  |
| --- |
| **Paste your code for creating two Arraylists and merging them** |
| **Paste your code for creating two LinkedLists and merging them** |
| **Paste your code for the while loop and any other method you have created to serve the while loop procedure (if any)** |
| **Screenshot of the output of** PrintallForward**. Make sure to provide the results before the while loop, and during the while loop. [**You don’t have to show all PrintallForward results, one before the while, one at the end of the loop, and 2-5 within the while loop is enough**]** |

After filling out the table, save this document as a word file AND as a pdf file. Then Submit BOTH files along with your C# project directory, as described in the main assignment document.