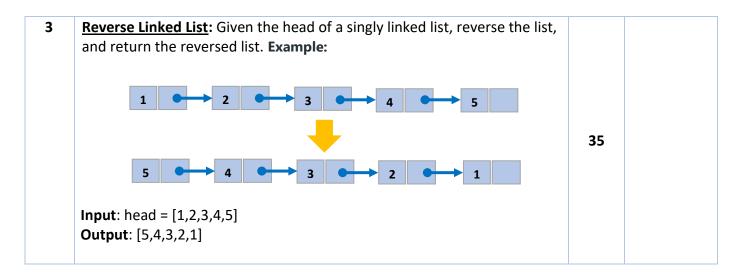
CS608-SPRING 2023: ALGORITHMS & COMPUTING THEORY

Assignment#2 - TOTAL POINTS: 100

DUE DATE: 03/12/2023 (March 12th)

Team Assignment

S.No.	Questions	Points	Self- Assessment
1	Valid Parentheses: Given a string \$ containing just the characters '(', ')', '{', '}', '[' and ']', determine if the input string is valid. An input string is valid if: 1. Open brackets must be closed by the same type of brackets. 2. Open brackets must be closed in the correct order. 3. Every close bracket has a corresponding open bracket of the same type. Example 1: Input: s = "()" Output: true Example 2: Input: s = "()[]{}" Output: true Example 3: Input: s = "(]" Output: false Constraints: • 1 <= S.length <= 20 • s consists of parentheses only '()[]{}'.	35	
2	Remove Duplicates from Sorted Linked List: Given the head of the sorted linked list, write a Python program to remove all the duplicates such that each unique element appears only once. The relative order of the elements should be kept the same. Example: Input: head = [1,1,1,2,2,3,3,4] Output: [1,2,3,4,,,]	30	



Submission

- Submit a python notebook(.ipynb) with comments above the code explaining its purpose.
- You may not be graded full points if your program doesn't execute or produce the intended results.
- Late submission of up to one week will incur a 10% loss of total points earned. 5% every week thereafter.
- Attach this file with self-assessment. This is for your reference if you have answered all the questions completely.

NOTE: Plagiarism will be checked and there will be a heavy penalty if found copied.

Participating Teams will attract negative points for sharing the work.