**CSE220: Data Structures (Lab)**

**Fall 2024**

**Lab Quiz - 02**

**Duration: 30 Minutes**

| **Name:** | **ID:** | **Section:** |
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1) Imagine you’re working with a **transaction processing system** where transactions are stored in a **singly linked list**. where each transaction is represented as a node in a **singly linked list.**

Occasionally, duplicate transactions are entered consecutively due to a data sync issue.

Your task is to clean up the transaction list by removing these consecutive duplicate transactions, ensuring that only unique transactions remain in the final list, regardless of how many times they were accidentally duplicated.

**Modify the existing linked list(In-Place)** and return the **total amount of transactions removed.**

Your task is to write a function removeDuplicate(head)/ removeDuplicate(Node head), that prints the sum of transactions removed and the modified list after removal of duplicates.

| **Sample Input** | **Sample Output** |
| --- | --- |
| 100→20→50→50→10→10→None | Total Duplicate Transaction Amount: 60  Modified List: 100→20→50→10→None |