**CSE220: Data Structures (Lab)**

**Fall 2024**

**Lab Quiz - 02**

**Duration: 30 Minutes**

| **Name:** | **ID:** | **Section:** |
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### [15 Points]

As a network engineer, you're tasked with developing a system to optimize bandwidth usage in a network. Write a function/method named **compressTraffic** that takes a linked list representing network traffic (where each node contains the traffic size in KB). The function should compress consecutive traffic blocks smaller than 100KB by merging them into a single block. The function should return the compressed linked list head.

* *You need to modify the given list. [Inplace]*
* *You do not need to write the driver code or others like Node class, just complete the* ***compressTraffic*** *function.*

| Sample Input: | Sample Output: |
| --- | --- |
| 50 → 40 → 20 → 150 → 5 → 3 → 200 → None | 110 → 150 → 8 → 200 → None |
| Explanation: 50+40+20=110 (merged), 150 (unchanged), 5+3=8 (merged), 200 (unchanged) | |