



CSE220: Data Structures (Lab)
Fall 2024
Lab Quiz - 02
Duration: 30 Minutes

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Name :	ID:	Section:
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[15 Points]

As an engineer, You're asked to make a system to optimize memory usage in a system. Write a function/method named **compressMemory** that takes a linked list of memory blocks (each node containing memory size in MB) and compresses consecutive blocks that are smaller than 10MB 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 any driver code or others like Node class, just complete the **compressMemory** function*

Sample Input:	Sample Output:
5→8→15→3→4→2→20→None	13→15→9→20→None
Explanation: 5+8=13 (merged), 15 (unchanged), 3+4+2=9 (merged), 20 (unchanged)	