

\*\*\*\*\* Explanation\_6\*\*\*\*\*

- This algorithm takes in 2 Linked list and give union and intersection between the 2.

Time complexity:

Append->  $O(n)$

size ->  $O(n)$

to\_list ->  $O(n)$

Union method has time complexity of  $O(L1+L2)$  where  $L1$  and  $L2$  are length of the list.

Intersection method have time complexity of  $O(L1+L2)$