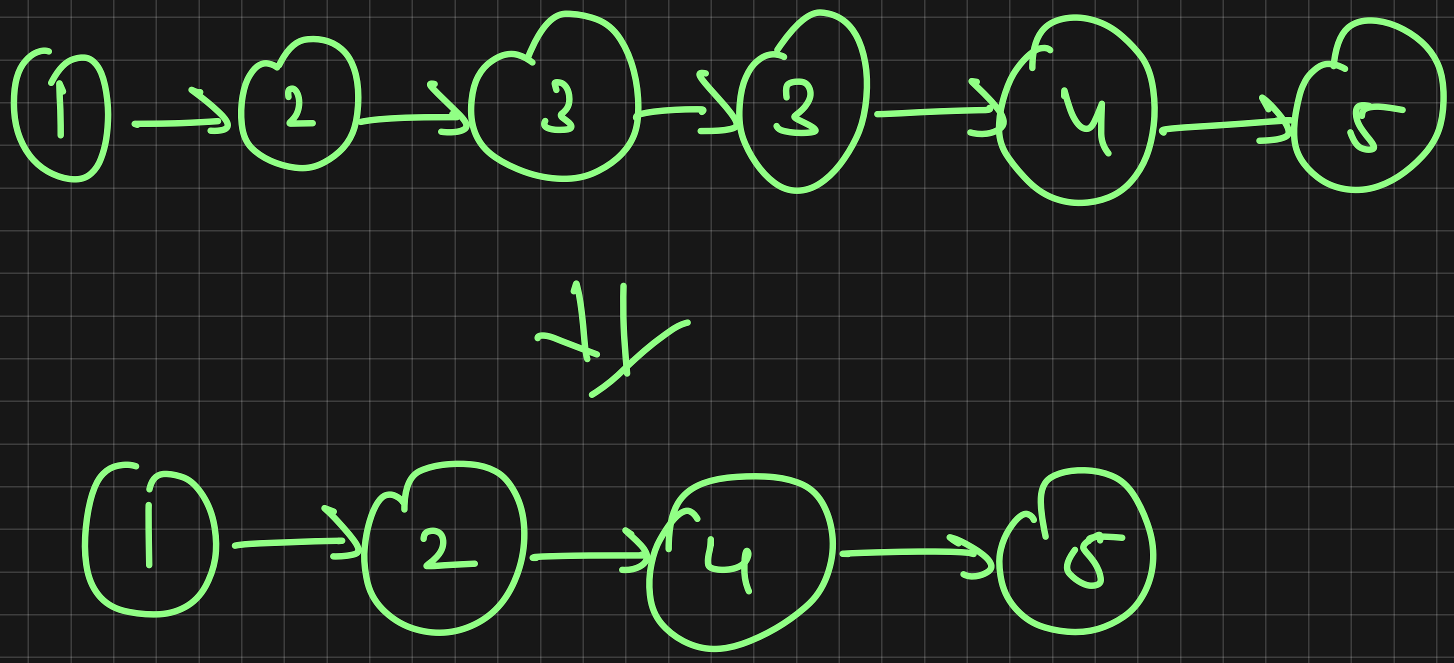
LeetCode #82

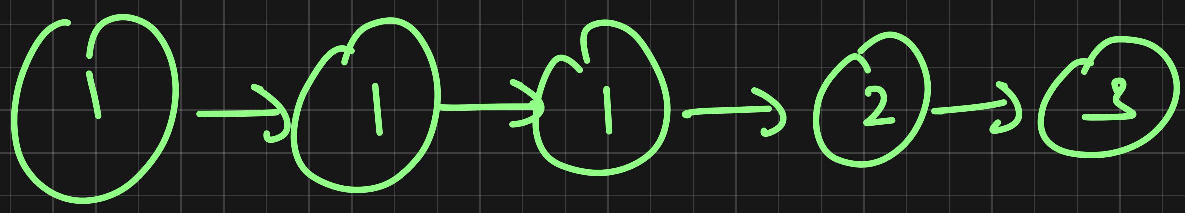
→ Day-9

Remove Duplicates from Sorted List II

Example



Example 2



Approach

① Given the head, we will follow 2 pointer approach.

② In this 2 pointer approach we Create a dummy Node and set its "next" to the head. Basically adding an additional Node at the starting the list. This will help in checking the Values from the first original Node itself.

③ We set the 'prev' pointer = dummy and 'curr' pointer = head.

④ Now we will traverse the LL while curr != Next && curr->next != NULL

✱ ⑤ Now we will check if the current

Nodes value is equal to the value of the next node. We will changing only the "curr" ptr. If the value we are comparing is same until is not.

☆ This way we can keep track of the element before the duplicate elements started appearing and also when duplicate elements stopped appearing

When they do stop appearing, we connect the 'prev' node with the 'current' node. This way we can delete/Remove all the duplicates in between.

⑥ Now However, if the value didnt match when we compare, both 'prev' and 'curr' ptr are incremented by 1.

⑦ at the end we return ' prev ->next '

or ' dummyHead ->next' .