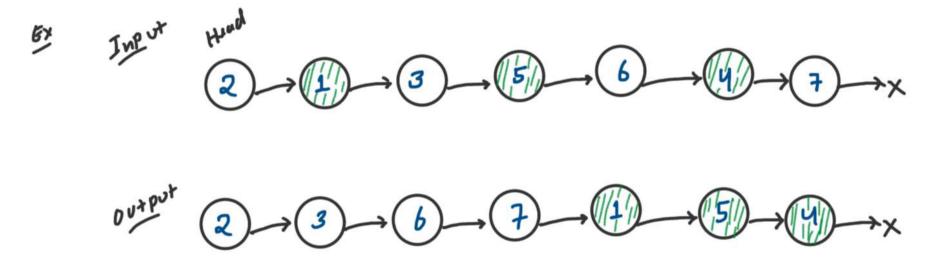
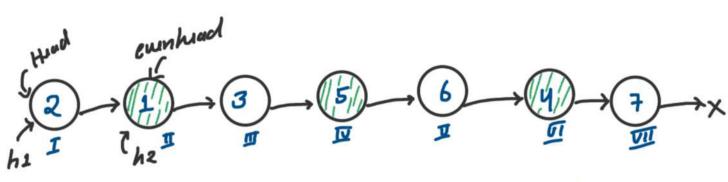
HW 09: Odd Even Linked List (Leetcode-328)



Logic boild



```
Nool * h1 = had; codd Indired Just

Nool * h2 = had 7 Mext; co Eum Indired List

Nool * Eum Had = h2; codd Sndrad Just

Nool * Eum Had = h2; codd Sndrad Just

Nool * Eum Had = h2; codd Sndrad Just

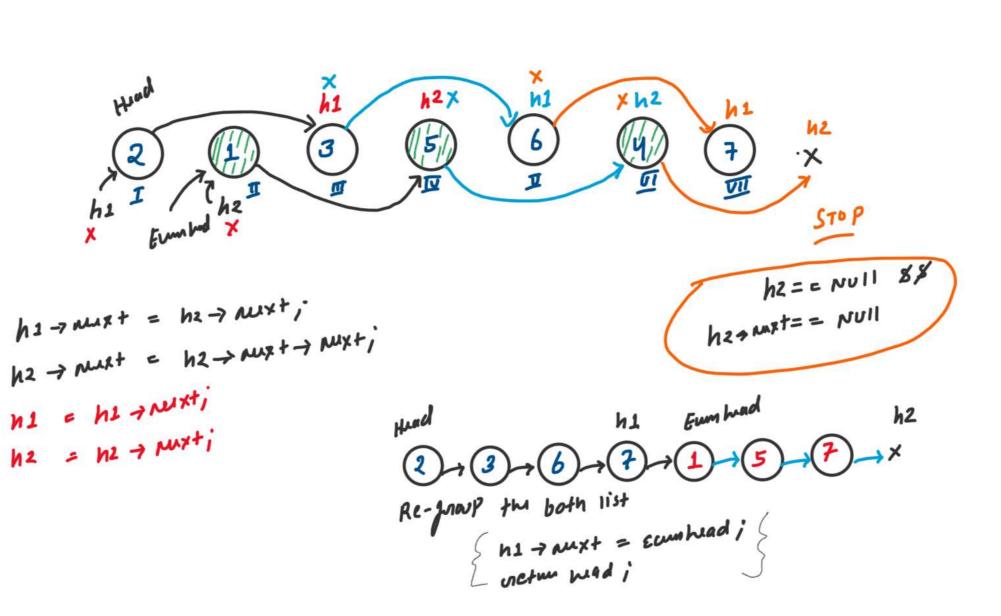
Nool * Eum Had = h2; codd Sndrad Just

Nool * Eum Had = h2; codd Sndrad Just

Nool * h1 = had; codd Sndrad Just

Nool * h2 = had; codd Sndrad Just

Nool * cod
```



```
// HW 69: Odd Even Linked List (Leetcode-328)

class Solution {
    public:
        ListNode* oddEvenList(ListNode* head) {
            if (head == NULL || head->next == NULL) return head;
            // Odd indexed list
            ListNode* h1 = head;
            // Even indexed list
            ListNode* h2 = head->next;
            // Save h2 for attaching the odd index list
            ListNode* evenHead = h2;

        while(h2 6& h2->next){
            h1->next = h2->next;
            h2->next = h2->next;
            h2 = h2->next;
            h2 = h2->next;
            }

        // Odd and even indexed list ko regroup krdo
            h1->next = evenHead;
        return head;
    }
};
```

Time complexity: O(N), Where N is number of nodes of the linked list

Space complexity: O(1), Where no extra space used