## MCS – 253P ADVANCED PROGRAMMING AND PROBLEM SOLVING

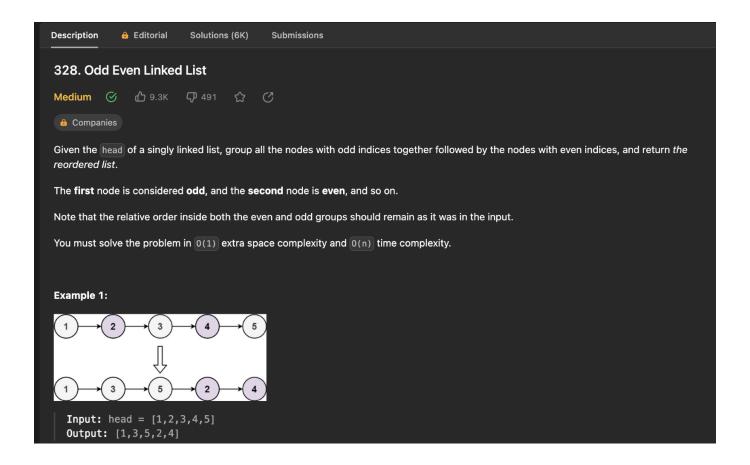
## LAB 5 Program(Odd Even LinkedList)

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**Question:** 



## Code

```
1 class Solution {
   public:
       ListNode* oddEvenList(ListNode* head) {
           if (!head || !head->next) {
               return head; // No change needed for empty or single-node lists
           ListNode* oddHead = head;
           ListNode* evenHead = head->next;
10
           ListNode* odd = oddHead;
           ListNode* even = evenHead;
           while (even && even->next) {
               odd->next = even->next;
               odd = odd->next;
               even->next = odd->next;
               even = even->next;
           odd->next = evenHead; // Connect the odd and even parts
           return oddHead;
   };
```

## **Output:**

