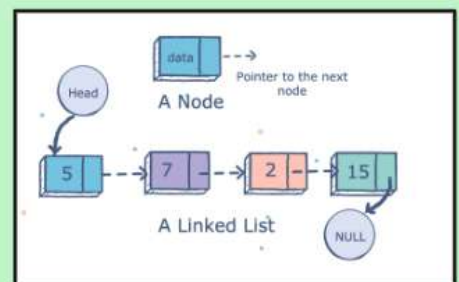


Delete Node in a Linked List (Leetcode-237)



@manojofficialmj



amazon

Microsoft

Meta

Tricky Question: Solve without knowing head of given linked list

237 / Leetcode

T.C. = $O(1)$

S.C. = $O(1)$

DELETE NODE IN A LINKED LIST

TRICKY

😊 This line solve the question

↳ It is guaranteed that the given node is not the last node in the linked list.

simple

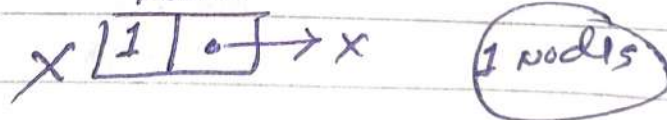
↳ Given node may Head but not Tail

😊 Constraints

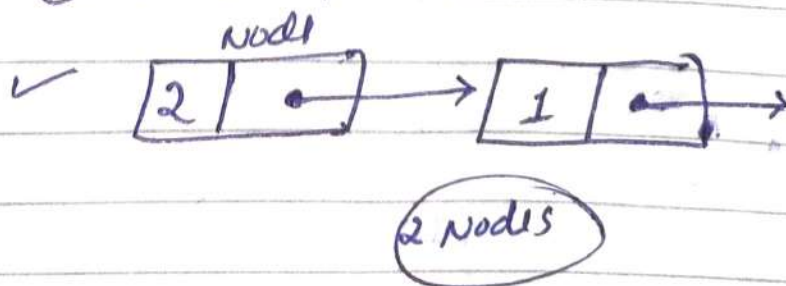
Number of nodes in the list in Range $[2, 1000]$

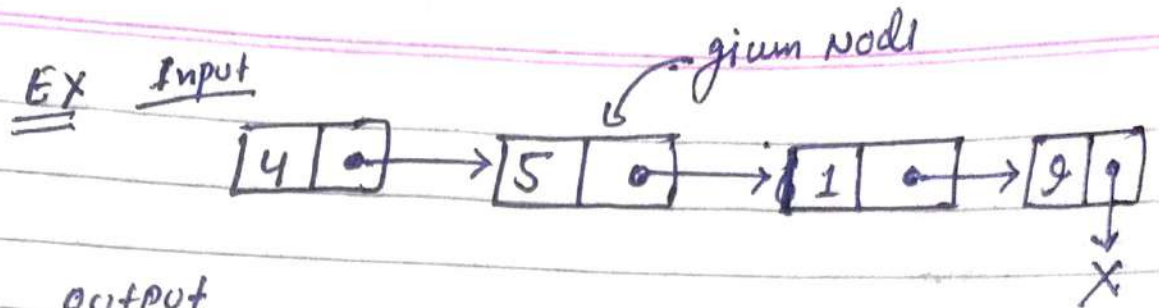
↳ simple

① Invalid Test case

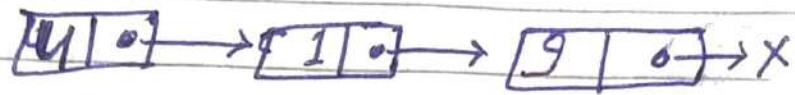


② valid Test case





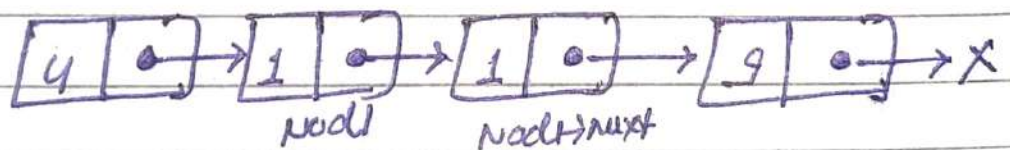
output



Approach

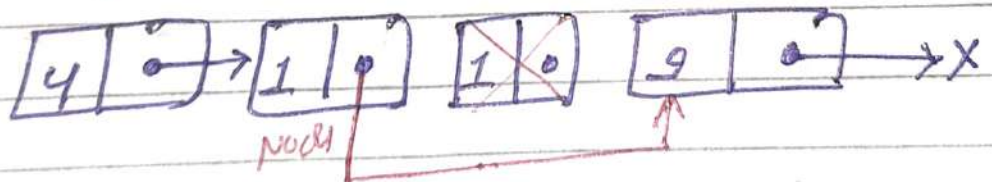
STEP 1 Copy the next node val to given node

$node \rightarrow val = node \rightarrow next \rightarrow val;$

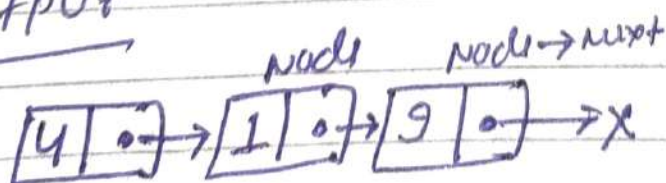


STEP 2 delete the next node

$node \rightarrow next = node \rightarrow next \rightarrow next;$



Output



☺ Actually hamne given node ko delete hi nahi kiya hai.

```
/**
 * Definition for singly-linked list.
 * struct ListNode {
 *     int val;
 *     ListNode *next;
 *     ListNode(int x) : val(x), next(NULL) {}
 * };
 */
class Solution {
public:
    void deleteNode(ListNode* node) {
        // Step 1: copy the next node val to given node
        node->val = node->next->val;
        // Step 2: deleting the next node
        node->next = node->next->next;
    }
};
```