

# Problem 3217: Delete Nodes From Linked List Present in Array

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 69.69%

**Paid Only:** No

**Tags:** Array, Hash Table, Linked List

## Problem Description

You are given an array of integers `nums` and the `head` of a linked list. Return the `head` of the modified linked list after **removing** all nodes from the linked list that have a value that exists in `nums`.

**Example 1:**

**Input:** `nums = [1,2,3], head = [1,2,3,4,5]`

**Output:** `[4,5]`

**Explanation:**

**!**<https://assets.leetcode.com/uploads/2024/06/11/linkedlistexample0.png>

Remove the nodes with values 1, 2, and 3.

**Example 2:**

**Input:** `nums = [1], head = [1,2,1,2,1,2]`

**Output:** `[2,2,2]`

**Explanation:**



Remove the nodes with value 1.

**Example 3:**

**Input:** nums = [5], head = [1,2,3,4]

**Output:** [1,2,3,4]

**Explanation:**



No node has value 5.

**Constraints:**

\*  $1 \leq \text{nums.length} \leq 105$  \*  $1 \leq \text{nums}[i] \leq 105$  \* All elements in `nums` are unique. \*  
The number of nodes in the given list is in the range  $[1, 105]$ . \*  $1 \leq \text{Node.val} \leq 105$  \* The  
input is generated such that there is at least one node in the linked list that has a value not  
present in `nums`.

## Code Snippets

**C++:**

```
/**
 * Definition for singly-linked list.
 * struct ListNode {
 *     int val;
 *     ListNode *next;
 *     ListNode() : val(0), next(nullptr) {}
 *     ListNode(int x) : val(x), next(nullptr) {}
 *     ListNode(int x, ListNode *next) : val(x), next(next) {}
 * };
 */
class Solution {
public:
```

```

ListNode* modifiedList(vector<int>& nums, ListNode* head) {

}

};

```

## Java:

```

/**
 * Definition for singly-linked list.
 * public class ListNode {
 *   int val;
 *   ListNode next;
 *   ListNode() {}
 *   ListNode(int val) { this.val = val; }
 *   ListNode(int val, ListNode next) { this.val = val; this.next = next; }
 * }
 */
class Solution {
    public ListNode modifiedList(int[] nums, ListNode head) {

    }

}

```

## Python3:

```

# Definition for singly-linked list.
# class ListNode:
#     def __init__(self, val=0, next=None):
#         self.val = val
#         self.next = next
class Solution:
    def modifiedList(self, nums: List[int], head: Optional[ListNode]) ->
Optional[ListNode]:

```