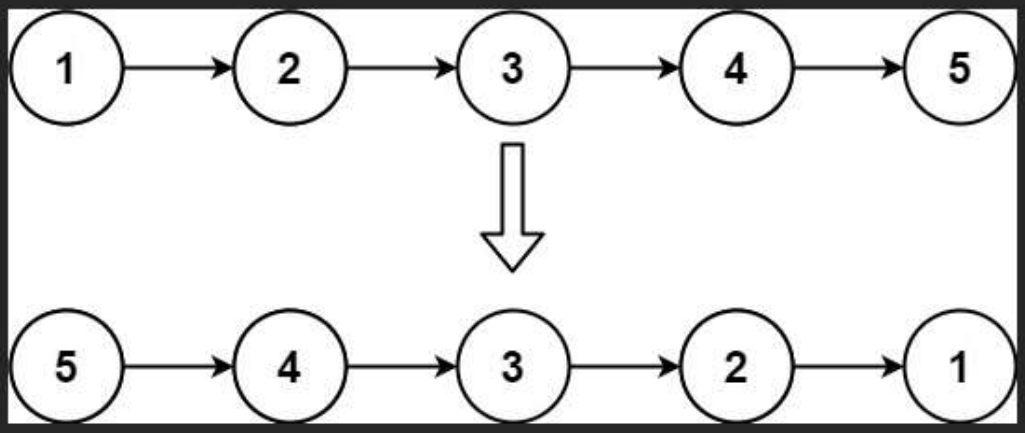
206. Reverse Linked List

Solved

Easy | Topics | Companies

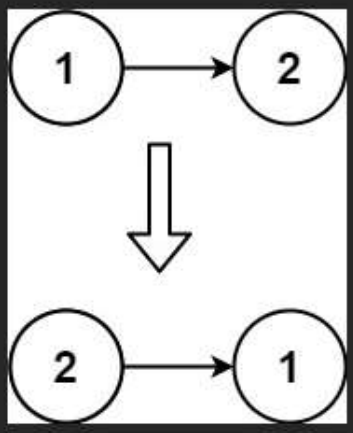
Given the `head` of a singly linked list, reverse the list, and return *the reversed list.*

Example 1:




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

Example 2:




```
Input: head = [1,2]
Output: [2,1]
```

Example 3:

```
Input: head = []
Output: []
```

Constraints:

- The number of nodes in the list is the range `[0, 5000]`.
- `-5000 <= Node.val <= 5000`

C Auto

```c
/**
 * Definition for singly-linked list.
 * struct ListNode {
 *     int val;
 *     struct ListNode *next;
 * };
 */
struct ListNode* reverseList(struct ListNode* head) {
    struct ListNode *prev=NULL;
    struct ListNode *next=NULL;
    struct ListNode *current=head;
    while(current!=NULL){
        next=current->next;
        current->next=prev;
        prev=current;
        current=next;
    }
    return prev;
}
```

Testcase | Test Result

Accepted Runtime: 0 ms

Case 1 Case 2 Case 3

Input

head =

[1,2,3,4,5]

Output

[5,4,3,2,1]

Expected

[5,4,3,2,1]