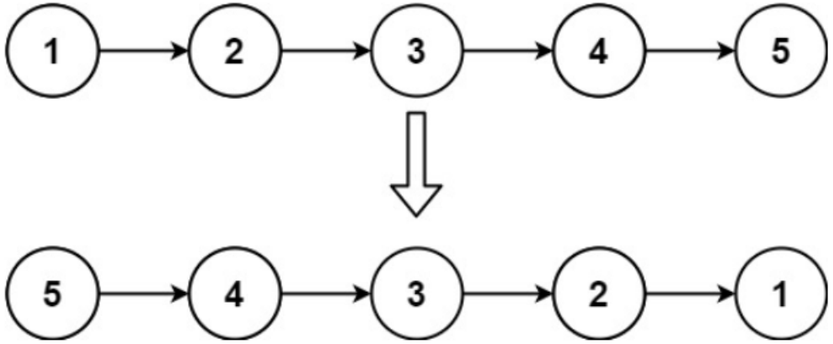
Description | Editorial | Solutions | Submissions

206. Reverse Linked List

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]

Code

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 *ptr = head;

    while (ptr) {
        struct ListNode *nxt = ptr->next;
        ptr->next = prev;
        prev = ptr;
        ptr = nxt;
    }

    head = prev;
    return head;
}
```

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]

Contribute a testcase

Testcase | Test Result

Accepted Runtime: 0 ms

• Case 1 • Case 2 • Case 3

Input

head =

[1,2]

Output

[2,1]

Expected

[2,1]

Contribute a testcase

Testcase | Test Result

Accepted Runtime: 0 ms

• Case 1 • Case 2 • Case 3

Input

head =
[]

Output

[]

Expected

[]

Contribute a testcase