Reverse Linked List
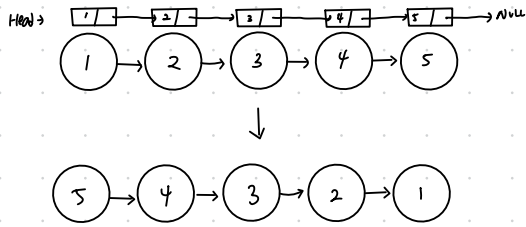
: Given the head of a singly linked list, reverse the list, and return the reversed list.

Ex)

Head →

1 → 2 → 3 → 4 → 5 → Null

↓

5 → 4 → 3 → 2 → 1

1

↓

1

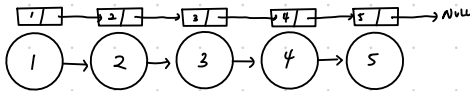Input: head = [1, 2, 3, 4, 5]

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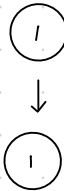
Input: head = [1]

Output: [1]

Idea:

① Check head is empty or it contains only 1 elements.

if head == None or head.next == None:

return head

1 → 2 → 3 → 4 → 5 → Null

1. curr   curr.next

2.   curr   curr.next

⋮

5   curr   curr.next

※ move curr to next

※ 1. next = curr.next

  2. curr.next = prev

  prev = curr

  curr = next

Null ← 1 ← 2 ← 3   4

  2.   2.   2.

curr   1. next   1. next   1. next

3 prev=curr   4. curr=next   4. curr=next   4. curr=next

        4. curr=next   3. prev=curr   3. prev=curr

        3. prev=curr