

DIVYA DAVANE SE_AIDS_11

```

class ListNode:
    def __init__(self, val=0, next=None):
        self.val = val
        self.next = next

def rotateRight(head, k):
    if not head or not head.next or k == 0:
        return head

    length = 1
    tail = head
    while tail.next:
        tail = tail.next
        length += 1

    k = k % length
    if k == 0:
        return head

    new_tail = head
    for _ in range(length - k - 1):
        new_tail = new_tail.next

    new_head = new_tail.next
    new_tail.next = None
    tail.next = head

    return new_head

if not values:
    return None
head = ListNode(values[0])
current = head
for val in values[1:]:
    current.next = ListNode(val)
    current = current.next
return head

def print_list(head):
    result = []
    while head:
        result.append(head.val)
        head = head.next
    print("Rotated Linked List:", result)

values = list(map(int, input("Enter linked list elements separated by spaces: ").split()))
k = int(input("Enter the number of rotations: "))

head = create_linked_list(values)

new_head = rotateRight(head, k)

print_list(new_head)

```

↻ Enter linked list elements separated by spaces: 1 2 3 4 5
 Enter the number of rotations: 3
 Rotated Linked List: [3, 4, 5, 1, 2]

```

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length = 1
tail = head
while tail.next:
    tail = tail.next
    length += 1

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if k == 0:
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new_tail = head
for _ in range(length - k - 1):
    new_tail = new_tail.next

new_head = new_tail.next
new_tail.next = None
tail.next = head

return new_head

def create_linked_list(values):
    if not values:
        return None
    head = ListNode(values[0])
    current = head
    for val in values[1:]:
        current.next = ListNode(val)
        current = current.next
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def print_list(head):
    result = []
    while head:
        result.append(head.val)
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values = list(map(int, input("Enter linked list elements separated by spaces: ").split()))
k = int(input("Enter the number of rotations: "))

head = create_linked_list(values)

new_head = rotateRight(head, k)

print_list(new_head)

```

↩ Enter linked list elements separated by spaces: 0 1 2
Enter the number of rotations: 4
Rotated Linked List: [2, 0, 1]

Double-click (or enter) to edit

