Rotate List

For this problem we need to rotate the list to the right by k positions.

Key Observations:

1. Rotating right by k is equivalent to:
   - Connecting the tail to the head (making it circular).
   - Breaking the list at (length − k % length) position.
2. If k is larger than the length of the list:
   - Use k = k % length to avoid unnecessary rotations.
3. Edge cases:
   - Empty list (head == nullptr)
   - k = 0
   - k % length = 0 (no rotation needed)

Steps:

1. Find the length of the list.
2. Connect tail to head to form a circular list.
3. Calculate new head position:-
   - Move (length − k % length) steps forward.
4. Break the circle to form the rotated list.

Complexity:

- Time: O(n) (single traversal to compute length and rotation point).
- Space: O(1) (in-place rotation).