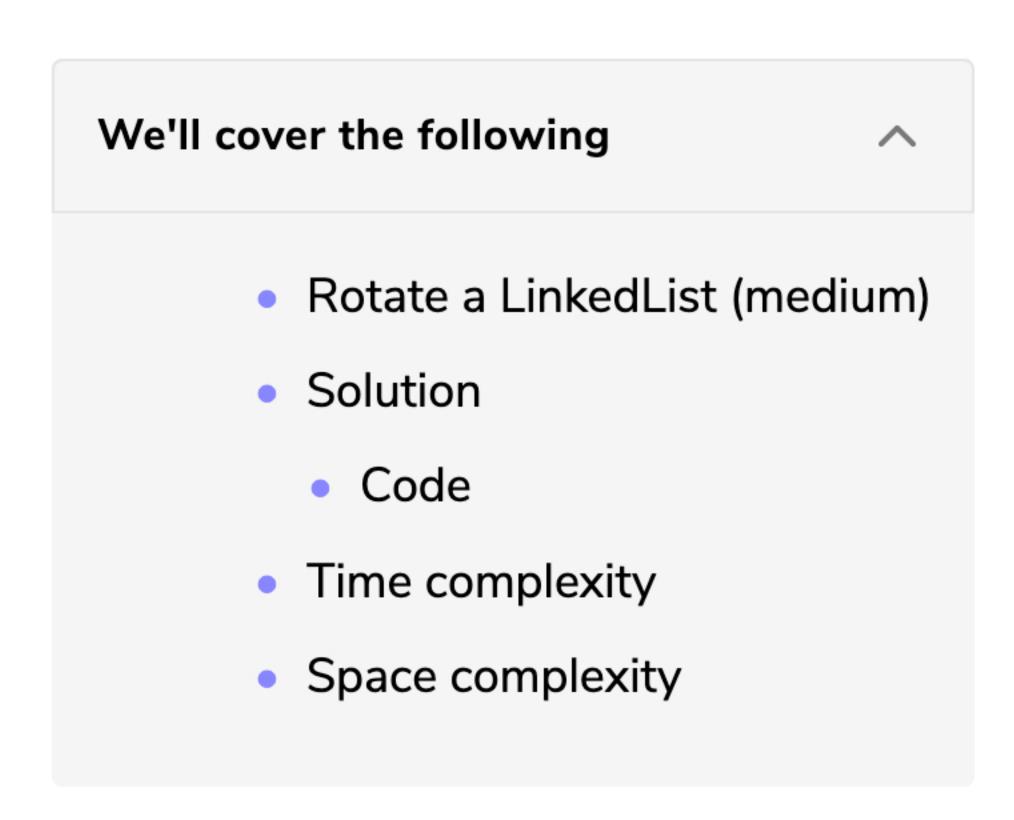


Solution Review: Problem Challenge 2

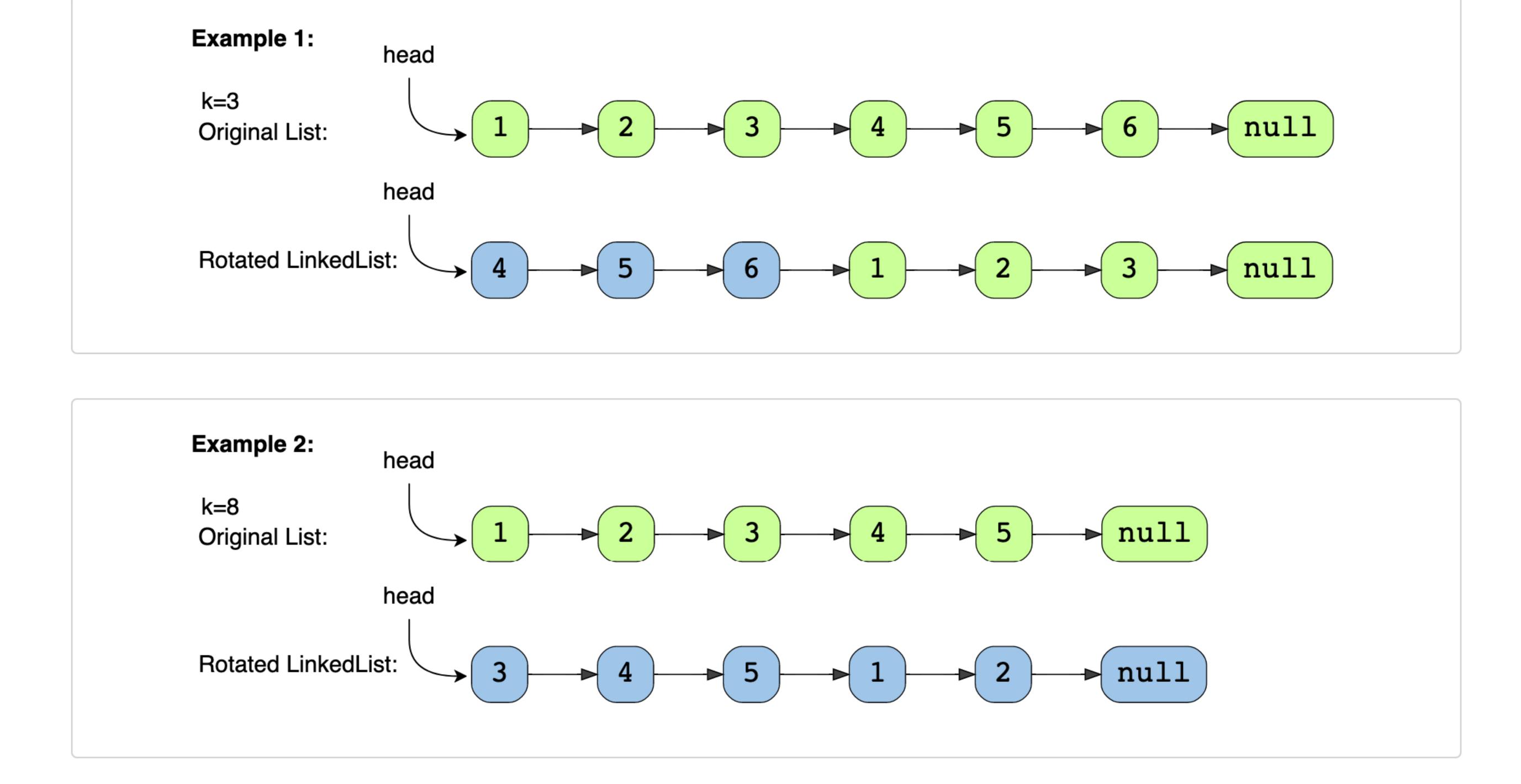


Rotate a LinkedList (medium)

Given the head of a Singly LinkedList and a number 'k', rotate the LinkedList to the right by 'k' nodes.

€

? Ask a Question



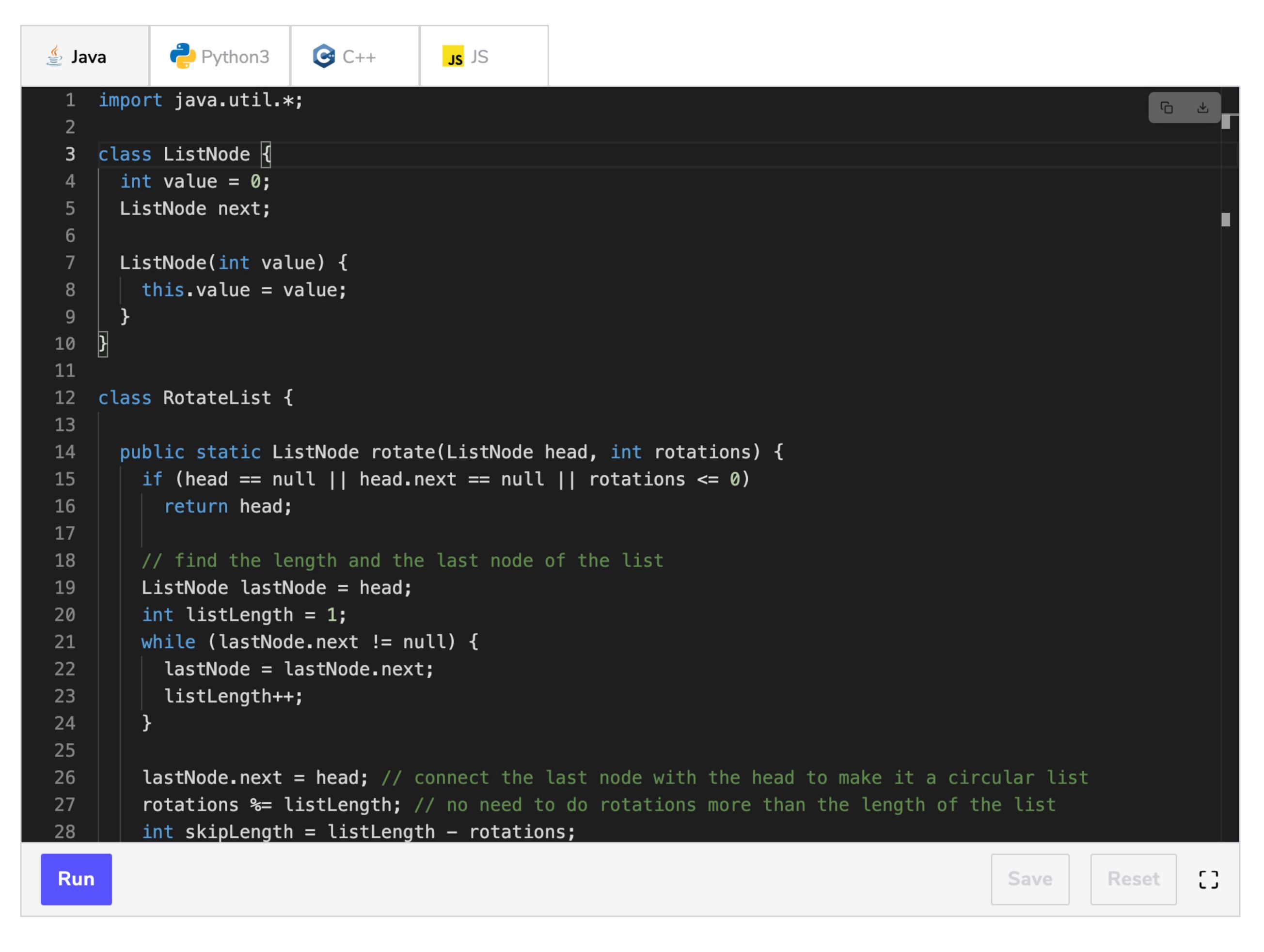
Solution

Another way of defining the rotation is to take the sub-list of 'k' ending nodes of the LinkedList and connect them to the beginning. Other than that we have to do three more things:

- 1. Connect the last node of the LinkedList to the head, because the list will have a different tail after the rotation.
- 2. The new head of the LinkedList will be the node at the beginning of the sublist.
- 3. The node right before the start of sub-list will be the new tail of the rotated LinkedList.

Code

Here is what our algorithm will look like:



Time complexity

The time complexity of our algorithm will be O(N) where 'N' is the total number of nodes in the LinkedList.

Space complexity

Problem Challenge 2

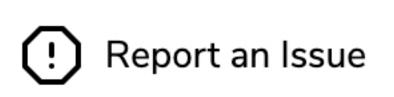
We only used constant space, therefore, the space complexity of our algorithm is O(1).

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Introduction

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