Reverse Linked List II

Try to solve the Reverse Linked List II problem.

We'll cover the following

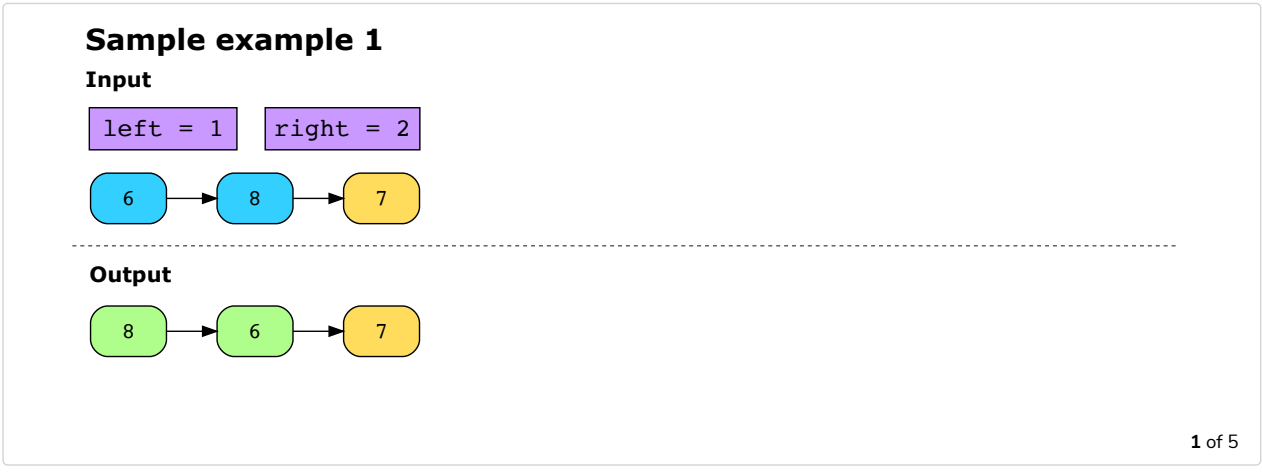
Statement

Given a singly linked list with n nodes and two positions, `left` and `right`, the objective is to reverse the nodes of the list from `left` to `right`. Return the modified list.

Constraints:

- $1 \leq$ `n` ≤ 500
- $-5000 \leq$ `node.data` ≤ 5000
- $1 \leq$ `left` $\leq$ `right` $\leq$ `n`

Examples



Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

Reverse Linked List II

1 What is the output if the following linked list and left and right values are given as input?

linked list = 8 → 0 → 6 → 1 → 0 → 7 → 8 → 2

left = 1, right = 5

A) 2 → 8 → 7 → 0 → 1 → 6 → 0 → 8

B) 8 → 0 → 6 → 2 → 8 → 7 → 0 → 1

C) 0 → 1 → 6 → 0 → 8 → 7 → 8 → 2

D) 0 → 8 → 6 → 1 → 0 → 7 → 8 → 2

Submit Answer

Question 1 of 3
0 attempted

Reset Quiz

Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.

Drag and drop the cards to rearrange them in the correct sequence.

Start from the head node and traverse to the left position node while keeping track of the previous node.

From the left position node, traverse to the right position node. Keep track of the right position node and its next node.

Reverse the list from the left position node to the right position node.

Merge the reversed list with the original list using the node previous to the left node

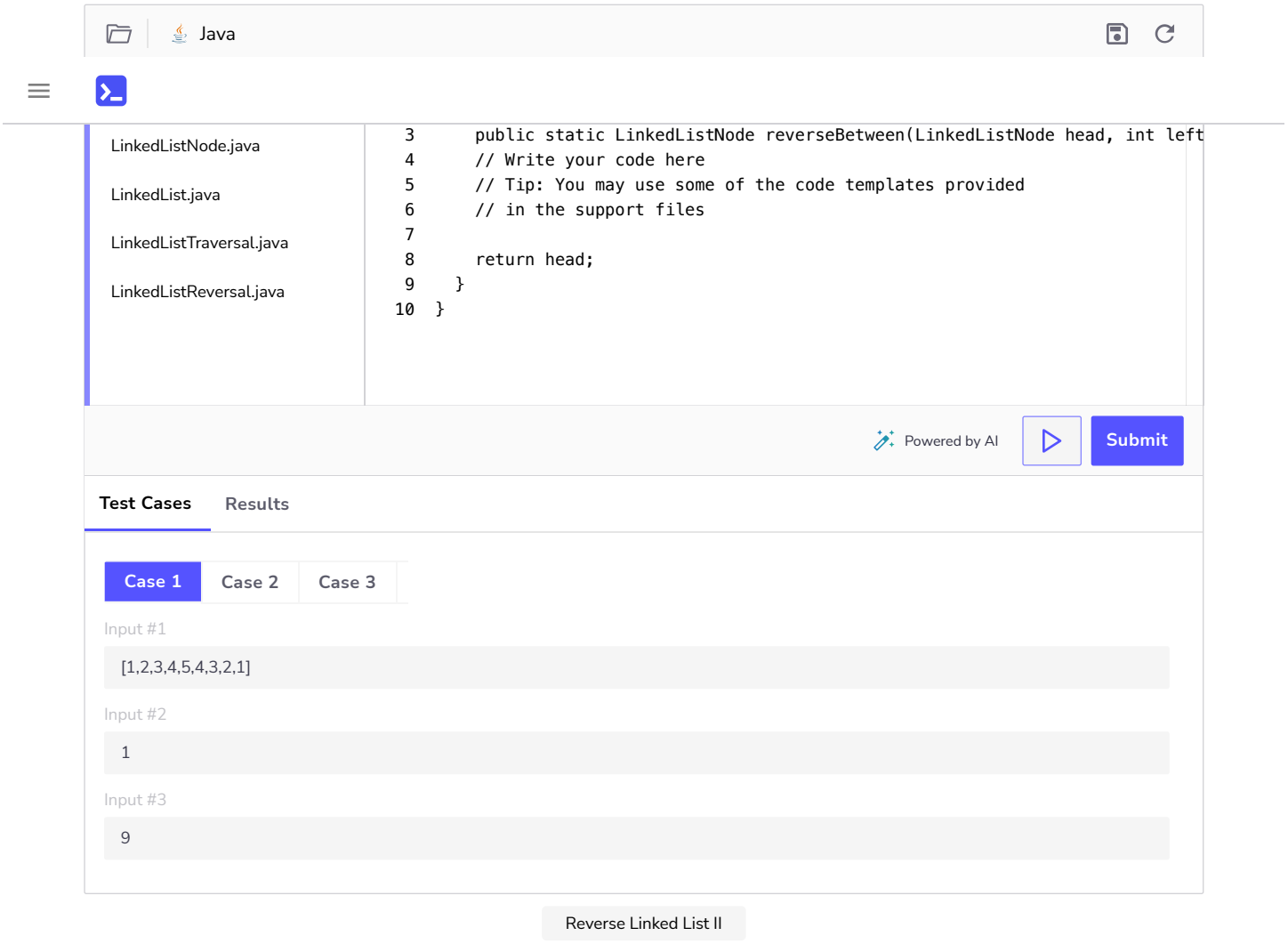
and the node after the right node.

Return the modified list.

Reset | Show Solution | Submit

Try it yourself

Implement your solution in `ReverseLinkedList.java` in the following coding playground. You'll need the provided supporting code to implement your solution. We've provided some useful code templates that you may build on to solve this problem.



Reverse Linked List II

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Solution: Reverse Nod...

Next

Solution: Reverse Link...

Mark as Completed