

Reverse Linked List II

Try to solve the Reverse Linked List II problem.

We'll cover the following ^

- Statement
- Examples
- Understand the problem
- Figure it out!
- Try it yourself

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:

- $1 \leq n \leq 500$
- $-5000 \leq \text{node.data} \leq 5000$
- $1 \leq \text{left} \leq \text{right} \leq n$

Examples

Sample example 1

Input

left = 1

right = 2

6

→

8

→

7

Output

8

→

6

→

7




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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 = $8 \rightarrow 0 \rightarrow 6 \rightarrow 1 \rightarrow 0 \rightarrow 7 \rightarrow 8 \rightarrow 2$

left = 1, right = 5

A) $2 \rightarrow 8 \rightarrow 7 \rightarrow 0 \rightarrow 1 \rightarrow 6 \rightarrow 0 \rightarrow 8$

B) $8 \rightarrow 0 \rightarrow 6 \rightarrow 2 \rightarrow 8 \rightarrow 7 \rightarrow 0 \rightarrow 1$

C) $0 \rightarrow 1 \rightarrow 6 \rightarrow 0 \rightarrow 8 \rightarrow 7 \rightarrow 8 \rightarrow 2$

D) $0 \rightarrow 8 \rightarrow 6 \rightarrow 1 \rightarrow 0 \rightarrow 7 \rightarrow 8 \rightarrow 2$

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.

Java

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LinkedListNode.java

LinkedList.java

LinkedListTraversal.java

LinkedListReversal.java

```
3 public static LinkedListNode reverseBetween(LinkedListNode head, int left
4 // Write your code here
5 // Tip: You may use some of the code templates provided
6 // in the support files
7
8 return head;
9 }
10 }
```

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Submit

Test Cases

Results

Case 1

Case 2

Case 3

Input #1

[1,2,3,4,5,4,3,2,1]

Input #2

1

Input #3

9

Reverse Linked List II

← Back

Next →

Solution: Reverse Nod...

Solution: Reverse Link...

✓ Mark as Completed

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