

# Swapping Nodes in a Linked List

Try to solve the Swapping Nodes in a Linked List problem.

# We'll cover the following Statement Examples Understand the problem Figure it out! Try it yourself

#### **Statement**

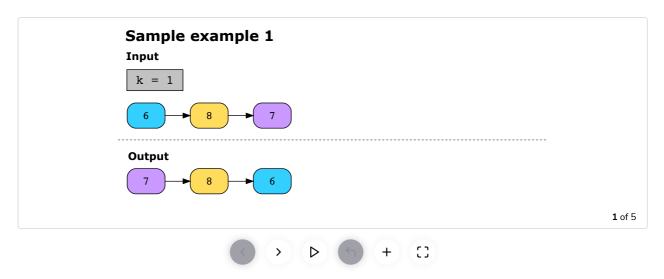
Given the linked list and an integer, k, return the head of the linked list after swapping the values of the  $k^{th}$  node from the beginning and the  $k^{th}$  node from the end of the linked list.

**Note:** We'll number the nodes of the linked list starting from 1 to n.

#### **Constraints:**

- The linked list will have n number of nodes.
- $1 \le k \le n \le 500$
- $-5000 \le$ Node.value  $\le 5000$

## **Examples**

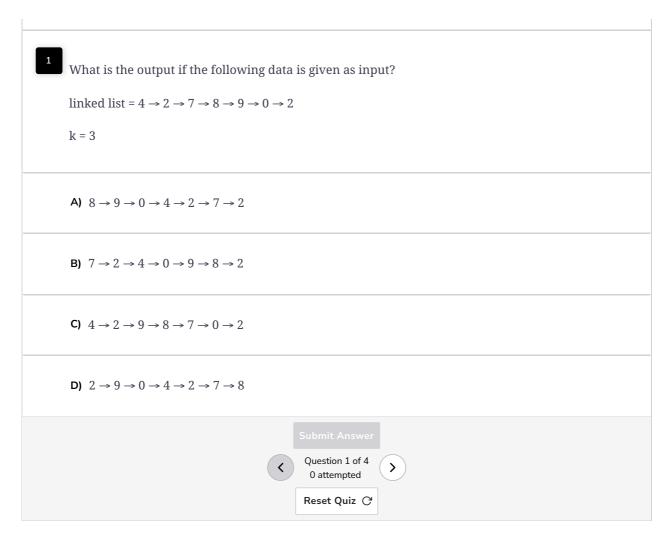


# Understand the problem

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:

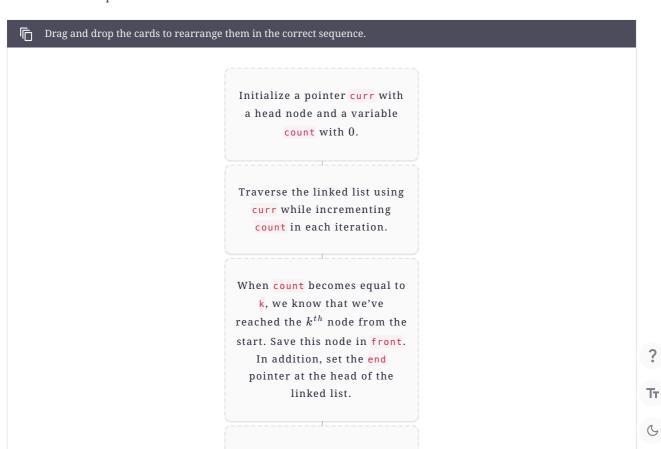
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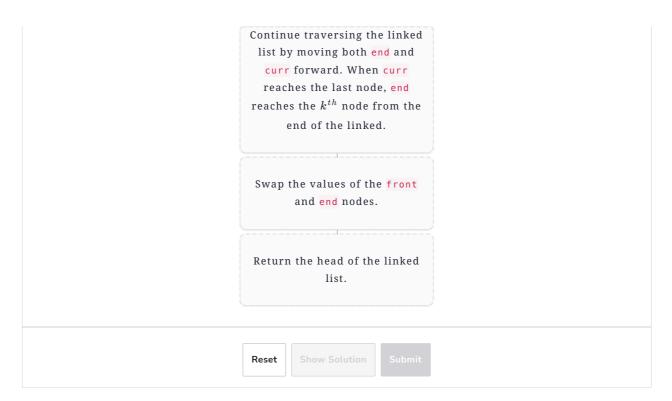
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## Figure it out!

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





### Try it yourself

Implement your solution in SwapNodes.java in the following coding playground. You'll need the provided supporting code to implement your solution. Some useful code templates have been provided that you may build on and use to solve this problem.

