Linked List Cycle II

Try to solve the Linked List Cycle II problem.

We'll cover the following
Statement
Examples
Understand the problem
Try it yourself

Statement

Given the head of a linked list, return the node where the cycle begins. If there is no cycle, return -1.

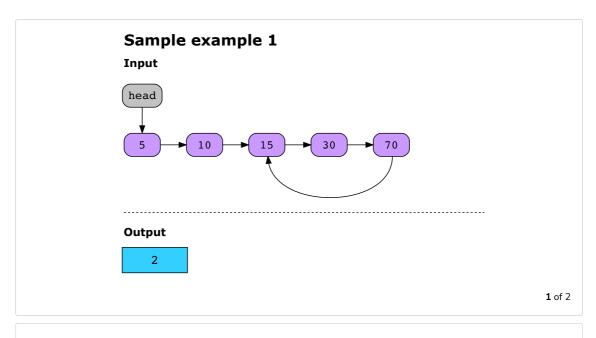
A cycle exists in a linked list if there is some node in the list that can be reached again by continuously following the next pointer. Internally, pos is used to denote the node's index to which the tail's next pointer is connected.

Constraints:

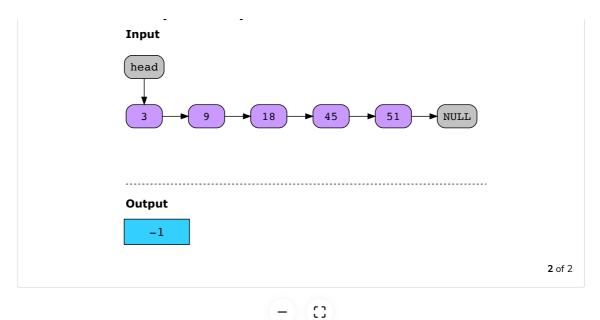
- The number of the nodes in the list is in the range $[0, 10^4]$.
- $-10^5 \leq {
 m Node.val} \leq 10^5$
- pos is -1 or a valid index in the linked list.

Note: The pos parameter isn't passed as a parameter.

Examples



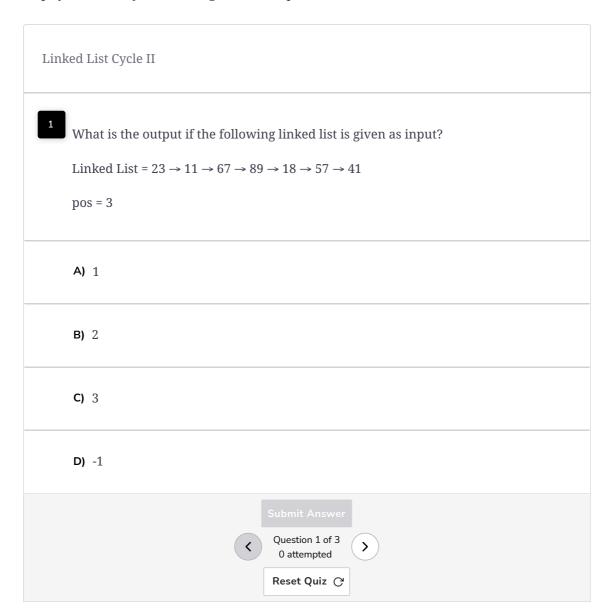
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Understand the problem

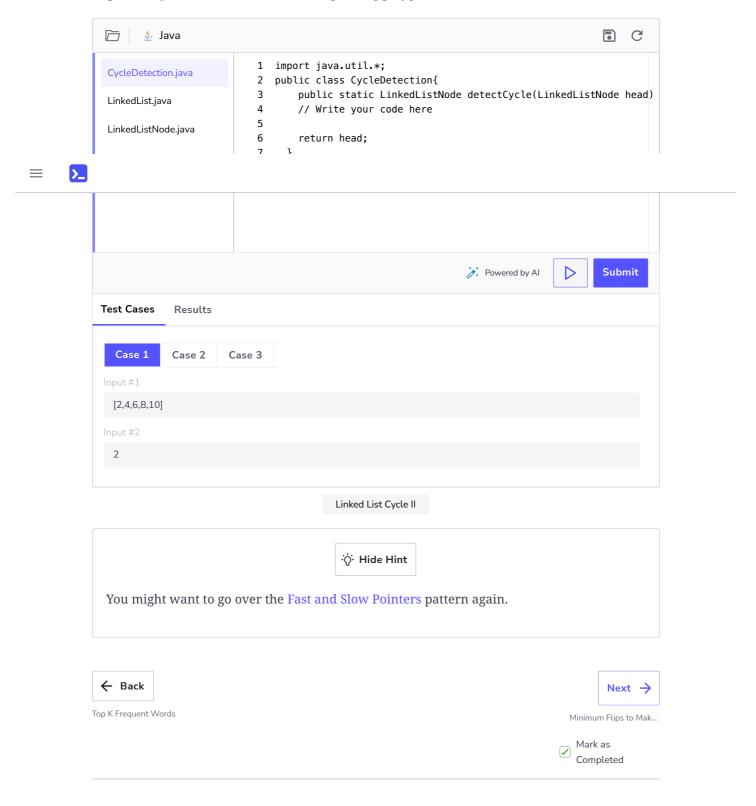
Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:



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Implement your solution in the following coding playground:



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