# 2095 Delete the Middle Node of a Linked List

You are given the head of a linked list. Delete the middle node, and return the head of the modified linked list.

The middle node of a linked list of size n is the ⌊n / 2⌋th node from the start using 0-based indexing, where ⌊x⌋ denotes the largest integer less than or equal to x.

For n = 1, 2, 3, 4, and 5, the middle nodes are 0, 1, 1, 2, and 2, respectively.

## SOLUTION IN JAVA

class Solution {

public ListNode deleteMiddle(ListNode head) {

ListNode dummy = new ListNode(0, head);

ListNode slow = dummy;

ListNode fast = dummy;

while (fast.next != null && fast.next.next != null) {

slow = slow.next;

fast = fast.next.next;

}

// Delete the middle node.

slow.next = slow.next.next;

return dummy.next;

}

}