Prompt   Scratchpad   Our Solution(s)   Video Explanation   Run Code

Your Solutions   Run Code

Solution 1

```swift
1   // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3   class Program {
4       class LinkedList {
5           var value: Int?
6           var next: LinkedList?
7
8           init(value: Int) {
9               self.value = value
10              next = nil
11          }
12      }
13
14      // O(n) time | O(1) space
15      func removeKthNodeFromEnd(head: LinkedList, k: Int) {
16          var counter = 1
17
18          var firstPointer: LinkedList? = head
19          var secondPointer: LinkedList? = head
20
21          while counter <= k {
22              secondPointer = secondPointer?.next
23              counter += 1
24          }
25
26          if secondPointer == nil {
27              head.value = head.next?.value
28              head.next = head.next?.next
29
30              return
31          }
32
33          while secondPointer?.next != nil {
34              firstPointer = firstPointer?.next
35              secondPointer = secondPointer?.next
36          }
37
38          firstPointer?.next = firstPointer?.next?.next
39      }
40  }
41
```

Solution 1   **Solution 2**   **Solution 3**

```swift
1   class Program {
2       // This is an input class. Do not edit.
3       class LinkedList {
4           var value: Int?
5           var next: LinkedList?
6
7           init(value: Int) {
8               self.value = value
9               next = nil
10          }
11      }
12
13      func removeKthNodeFromEnd(head: LinkedList, k: Int) {
14          // Write your code here.
15      }
16  }
17
```

Custom Output   Raw Output   Submit Code

Run or submit code when you're ready.

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