



Our Solution(s)

Run Code

Solution 1

```
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
```

Your Solutions

Run Code

Solution 1

Solution 2

Solution 3

```
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

Submit Code

**Run or submit code when you're ready.**