AlgoExpert Quad Layout Swift 12px Sublime Monokai 00:00:00

 Prompt
 Scratchpad
 Our Solution(s)
 Video Explanation

Run Code

```
Solution 1
```

```
_{\rm 1} // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 class Program {
       class LinkedList {
           var value: Int
           var next: LinkedList?
           init(value: Int) {
               self.value = value
10
               next = nil
11
12
13
14
       // O(n) time | O(1) space
        func findLoop(head: LinkedList) -> LinkedList? {
15
           var firstPointer = head.next
16
17
           var secondPointer = head.next?.next
18
           while firstPointer !== secondPointer {
19
20
               firstPointer = firstPointer?.next
21
               secondPointer = secondPointer?.next?.next
22
23
24
           firstPointer = head
25
26
           while firstPointer !== secondPointer {
27
              firstPointer = firstPointer?.next
28
               secondPointer = secondPointer?.next
29
30
           return firstPointer
31
32
33 }
```