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Solution 1

```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 package main
5 type LinkedList struct {
6 Value int
 7 Next *LinkedList
8 }
10 // O(n) time | O(1) space
11 func FindLoop(head *LinkedList) *LinkedList {
    first := head.Next
    second := first.Next
13
    for first != second {
14
15
      first, second = first.Next, second.Next.Next
16
    first = head
17
     for first != second {
18
19
      first = first.Next
      second = second.Next
20
21 }
22
    return first
23 }
24
```