

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        }
11    }
12
13    // O(n) time | O(1) space
14    func reverseLinkedList(_ head: LinkedList) -> LinkedList {
15        var firstPointer: LinkedList?
16        var secondPointer: LinkedList? = head
17
18        while secondPointer != nil {
19            let thirdPointer = secondPointer?.next
20            secondPointer?.next = firstPointer
21            firstPointer = secondPointer
22            secondPointer = thirdPointer
23        }
24
25        return firstPointer!
26    }
27 }
28
```

