

PromptScratchpadOur Solution(s)Video Explanation

Run Code

Solution 1Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class LinkedList {
4   constructor(value) {
5     this.value = value;
6     this.next = null;
7   }
8 }
9
10 // O(n + m) time | O(1) space - where n is the number of nodes in the first
11 // Linked List and m is the number of nodes in the second Linked List
12 function mergeLinkedLists(headOne, headTwo) {
13   let p1 = headOne;
14   let p1Prev = null;
15   let p2 = headTwo;
16   while (p1 !== null && p2 !== null) {
17     if (p1.value < p2.value) {
18       p1Prev = p1;
19       p1 = p1.next;
20     } else {
21       if (p1Prev !== null) p1Prev.next = p2;
22       p1Prev = p2;
23       p2 = p2.next;
24       p1Prev.next = p1;
25     }
26   }
27   if (p1 === null) p1Prev.next = p2;
28   return headOne.value < headTwo.value ? headOne : headTwo;
29 }
30
31 exports.LinkedList = LinkedList;
32 exports.mergeLinkedLists = mergeLinkedLists;
33
```