

PromptScratchpadOur Solution(s)Video Explanation

Run Code

Solution 1Solution 2

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class LinkedList:
4     def __init__(self, value):
5         self.value = value
6         self.next = None
7
8
9 # O(n + m) time | O(n + m) space - where n is the number of nodes in the first
10 # Linked List and m is the number of nodes in the second Linked List
11 def mergeLinkedLists(headOne, headTwo):
12     recursiveMerge(headOne, headTwo, None)
13     return headOne if headOne.value < headTwo.value else headTwo
14
15
16 def recursiveMerge(p1, p2, p1Prev):
17     if p1 is None:
18         p1Prev.next = p2
19         return
20     if p2 is None:
21         return
22
23     if p1.value < p2.value:
24         recursiveMerge(p1.next, p2, p1)
25     else:
26         if p1Prev is not None:
27             p1Prev.next = p2
28             newP2 = p2.next
29             p2.next = p1
30             recursiveMerge(p1, newP2, p2)
31
```