

Solution 1Solution 2

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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(1) 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     p1 = headOne
13     p1Prev = None
14     p2 = headTwo
15     while p1 is not None and p2 is not None:
16         if p1.value < p2.value:
17             p1Prev = p1
18             p1 = p1.next
19         else:
20             if p1Prev is not None:
21                 p1Prev.next = p2
22             p1Prev = p2
23             p2 = p2.next
24             p1Prev.next = p1
25     if p1 is None:
26         p1Prev.next = p2
27     return headOne if headOne.value < headTwo.value else headTwo
28
```