AlgoExpert Quad Layout C# 12px Sublime Monokai 00:00:00

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

Solution 1 Solution 2

```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 public class Program {
     public class LinkedList {
       public int value;
        public LinkedList next;
        public LinkedList(int value) {
          this.value = value;
10
          this.next = null;
11
12
13
14
      // O(n\,+\,m) time | O(n\,+\,m) space - where n is the number of nodes in the first
15
      // Linked List and {\rm m} is the number of nodes in the second Linked List
16
      public static LinkedList mergeLinkedLists(LinkedList headOne, LinkedList headTwo) {
17
       recursiveMerge(headOne, headTwo, null);
18
       return headOne.value < headTwo.value ? headOne : headTwo;</pre>
19
20
21
      public static void recursiveMerge(LinkedList p1, LinkedList p2, LinkedList p1Prev) {
22
       if (p1 == null) {
23
         p1Prev.next = p2;
24
          return;
25
26
        if (p2 == null)
27
         return;
28
29
        if (p1.value < p2.value) {</pre>
30
         recursiveMerge(p1.next, p2, p1);
31
32
         if (p1Prev != null)
33
           p1Prev.next = p2;
34
          LinkedList newP2 = p2.next;
35
          p2.next = p1;
          recursiveMerge(p1, newP2, p2);
36
37
38
39 }
```