AlgoExpert Quad Layout Java 12px Sublime Monokai 00:00:00

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

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Solution 1 Solution 2
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```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 class Program {
     public static class LinkedList {
       int value;
       LinkedList next;
 8
       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) {
       if (p1 == null) {
22
23
         p1Prev.next = p2;
24
          return;
25
26
        if (p2 == null) return;
27
28
        if (p1.value < p2.value) {</pre>
29
         recursiveMerge(p1.next, p2, p1);
30
          if (p1Prev != null) p1Prev.next = p2;
31
          LinkedList newP2 = p2.next;
32
33
          p2.next = p1;
34
          recursiveMerge(p1, newP2, p2);
35
36
37 }
```