AlgoExpert Quad Layout Java 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.
    class Program {
      public static class LinkedList {
        int value;
        LinkedList next;
        LinkedList(int value) {
          this.value = value;
10
          this.next = null;
11
12
13
      // O(n + m) time \mid O(1) space - where n is the number of nodes in the first
14
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
        LinkedList p1 = headOne;
        LinkedList p1Prev = null;
18
19
        LinkedList p2 = headTwo;
20
        while (p1 != null && p2 != null) {
          if (p1.value < p2.value) {</pre>
21
22
           p1Prev = p1;
23
           p1 = p1.next;
24
          } else {
25
           if (p1Prev != null) p1Prev.next = p2;
26
            p1Prev = p2;
27
            p2 = p2.next;
28
            p1Prev.next = p1;
29
30
31
        if (p1 == null) p1Prev.next = p2;
32
        return headOne.value < headTwo.value ? headOne : headTwo;</pre>
33
34 }
35
```