Solution 1

```
1  // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3  // O(n) time | O(1) space - where n is the number of nodes in the Linked List
4  function rearrangeLinkedList(head, k) {
5    let smallerListHead = null;
6    let smallerListTail = null;
7    let equalListHead = null;
8    let equalListTail = null;
9    let greaterListHead = null;
10   let greaterListTail = null;
11
12   let node = head;
13   while (node !== null) {
14     if (node.value < k) {
15       [smallerListHead, smallerListTail] = growLinkedList(smallerListHead, smallerListTail, node);
16     } else if (node.value > k) {
17       [greaterListHead, greaterListTail] = growLinkedList(greaterListHead, greaterListTail, node);
18     } else {
19       [equalListHead, equalListTail] = growLinkedList(equalListHead, equalListTail, node);
20     }
21
22     const prevNode = node;
23     node = node.next;
24     prevNode.next = null;
25   }
26
27   const [firstHead, firstTail] = connectLinkedLists(smallerListHead, smallerListTail, equalListHead, equalListTail);
28   const [finalHead, _] = connectLinkedLists(firstHead, firstTail, greaterListHead, greaterListTail);
29   return finalHead;
30 }
31
32 function growLinkedList(head, tail, node) {
33   let newHead = head;
34   let newTail = node;
35
36   if (newHead === null) newHead = node;
37   if (tail !== null) tail.next = node;
38
39   return [newHead, newTail];
40 }
41
42 function connectLinkedLists(headOne, tailOne, headTwo, tailTwo) {
43   const newHead = headOne === null ? headTwo : headOne;
44   const newTail = tailTwo === null ? tailOne : tailTwo;
45
46   if (tailOne !== null) tailOne.next = headTwo;
47
48   return [newHead, newTail];
49 }
50
51 // This is the class of the input linked list.
52 class LinkedList {
53   constructor(value) {
54     this.value = value;
55     this.next = null;
56   }
57 }
58
59 exports.rearrangeLinkedList = rearrangeLinkedList;
60
```