86. Partition List ★

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Total Accepted: 77206 Total Submissions: 250942 Difficulty: Medium

Given a linked list and a value x, partition it such that all nodes less than x come before nodes greater than or equal to x.

You should preserve the original relative order of the nodes in each of the two partitions.

For example,

```
Given 1->4->3->2->5->2 and x = 3, return 1->2->2->4->3->5.
```

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```
/**
 1
     * Definition for singly-linked list.
 2
 3
     * struct ListNode {
 4
           int val;
 5
           ListNode *next;
 6
           ListNode(int x) : val(x), next(NULL) {}
     * };
 7
     */
 8
 9
    class Solution {
10
    public:
        ListNode* partition(ListNode* head, int x) {
11
             ListNode* leftRoot = NULL, *rightRoot = NULL;
12
             ListNode* leftCurNode = NULL, *rightCurNode = NULL;
13
             ListNode* curNode = head;
14
15
             while (curNode != NULL) {
16
                 if (curNode->val < x) {</pre>
17
                     if (leftRoot) {
                         leftCurNode->next = curNode;
18
                         leftCurNode = curNode;
19
                     }
20
                     else {
21
22
                         leftRoot = curNode;
                         leftc เพื่อใน हिंदु (എailto:admin@leetcode.com?subject=Feedback)
23
24
                     }
```

```
25
                 }
                 else {
26
27
                     if (rightRoot) {
28
                          rightCurNode->next = curNode;
29
                          rightCurNode = curNode;
30
                     }
                     else {
31
32
                          rightRoot = curNode;
33
                          rightCurNode = rightRoot;
                                                                                           □ Notes
34
35
                 }
36
                 curNode = curNode->next;
37
             if (leftRoot) {
38
39
                 head = leftRoot;
                 leftCurNode->next = rightRoot;
40
41
                 if(rightRoot)
42
                     rightCurNode->next = NULL;
43
             }
44
             else if(rightRoot){
45
                 head = rightRoot;
46
                 rightCurNode->next = NULL;
             }
47
             else {
48
49
                 head = NULL;
50
51
             return head;
52
        }
53
    };
```

Custom Testcase

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