## **Partition List**

My Submissions (/problems/partition-list/submissions/)

Question

Solution

Total Accepted: 49794 Total Submissions: 179115 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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Python

▼



```
# Definition for singly-linked list.
 1
    # class ListNode(object):
 2
    #
           def __init__(self, x):
 3
               self.val = x
 4
   #
 5
               self.next = None
 6
 7
    class Solution(object):
 8
         def partition(self, head, x):
 9
10
             :type head: ListNode
11
             :type x: int
             :rtype: ListNode
12
13
14
             node = ListNode(0)
15
             node.next = head
             1= node
16
             while 1.next!=None and 1.next.val < x: 1 = 1.next
17
18
19
             while r.next!=None:
                 if r.next.val < x:</pre>
20
21
                      tmp = r.next
22
   Send Feedback (mailto:admin@leetcode.com?subject=Feedback)
tmp.next = 1.next
23
```

| 24 | <pre>1.next = tmp</pre> |  |
|----|-------------------------|--|
| 25 | 1 = 1.next              |  |
| 26 | else: r = r.next        |  |

Custom Testcase

Run Code

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## Submission Result: Accepted (/submissions/detail/43326916/)

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