

[Daily Problem] Reverse a Linked List

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Hi, here's your problem today. This problem was recently asked by Google:

Given a singly-linked list, reverse the list. This can be done iteratively or recursively. Can you get both solutions?

Example:

```
Input: 4 -> 3 -> 2 -> 1 -> 0 -> NULL
Output: 0 -> 1 -> 2 -> 3 -> 4 -> NULL
class ListNode (object ):
   def init (self , x):
    self .val = x
    self .next = None
   # Function to print the list
   def printList (self ):
   node = self
      output =
      while node != None:
         output += str (node.val)
output += ""
         node = node.next
      print (output )
   # Iterative Solution
                                   (self , head):
   def reverselteratively
      # Implement this.
   # Recursive Solution
   def reverseRecursively (self , head):
      # Implement this.
# Test Program
# Initialize the test list:
testHead = ListNode (4)
nodel = ListNode (3)
testHead .next = node1
node2 = ListNode (2)
node1.next = node2
node3 = ListNode (1)
node2.next = node3
testTail = ListNode (0)
node3.next = testTail
print ("Initial list: "
testHead .printList
 # 4 3 2 1 0
testHead .reverselteratively
                                       (testHead)
#testHead.reverseRecursively(testHead)
print ("List after reversal: "
testTail .printList ()
# 0 1 2 3 4
```

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