Detailed Solution: [Lab Quiz 4 [Sunday 8AM].ipynb](https://colab.research.google.com/drive/1LK5oPHedmQCgKiZhOzlgpRm091Fx47Dz?usp=sharing)

SET-A

def printLL\_SetA(l1, l2):

if l1 == None and l2 == None:

return

if l1 != None and ( l2 == None or l1.val <= l2.val):

printLL\_SetA(l1.next, l2)

print(l1.val, end=' ')

else:

printLL\_SetA(l1, l2.next)

print(l2.val, end=' ')

# Test

l1 = create\_linked\_list([4, 7, 13, 15])

l2 = create\_linked\_list([3, 10, 12, 20])

printLL\_SetA(l1, l2)

Set B

def printLL\_SetB(l1, l2):

if l1 == None and l2 == None:

return

if l1 != None and ( l2 == None or l1.val >= l2.val):

printLL\_SetB(l1.next, l2)

print(l1.val, end=' ')

else:

printLL\_SetB(l1, l2.next)

print(l2.val, end=' ')

# Test

l1 = create\_linked\_list([15, 13, 7, 5])

l2 = create\_linked\_list([20, 12, 10, 3])

printLL\_SetB(l1, l2)

| Criteria | Mark | Description |
| --- | --- | --- |
| Correctness of Logic | 3 | Correctly computes quiz averages and finds differences between consecutive quizzes |
| Correct use of base case | 4 | Where the recursive function should stop |
| Correct recursive call | 6 |  |
| Code Readability | 2 | Well-structured, properly indented, and uses meaningful variable names. |