

DAY 15

INTERVIEW BIT PROBLEMS :

1. Merge Two Sorted Lists

Merge two sorted linked lists and return it as a new list.

The new list should be made by splicing together the nodes of the first two lists, and should also be sorted.

For example, given following linked lists :

5 -> 8 -> 20

4 -> 11 -> 15

The merged list should be :

4 -> 5 -> 8 -> 11 -> 15 -> 20

CODE :

PYTHON

Definition for singly-linked list.

class ListNode:

def __init__(self, x):

self.val = x

self.next = None

class Solution:

@param A : head node of linked list

@param B : head node of linked list

@return the head node in the linked list

def mergeTwoLists(self, head1, head2):

result = ListNode(None)

curr = result

while head1 and head2:

if head1.val <= head2.val:

curr.next = head1

head1 = head1.next

else:

curr.next = head2

head2 = head2.next

curr = curr.next

if head1:

curr.next = head1

elif head2:

curr.next = head2

return result.next