Your code is to Prepare two sorted linked lists A and B.
Merge the two lists A and B in a one sorted list. The list should be made by splicing together the nodes of the first two lists. Return the head of the merged linked list (A).

 Example 1:
Input: 4,2,1, #,3, 4,1,#
Output:
A = [1,2,4], B = [1,3,4]
A=[1,1,2,3,4,4]
Example 2:
Input: #,#
Output:
A = [], B = []
A= []
Example 3:
Input: #,0,#
Output:
A = [], B = [0]
A=[0]

NB.: Using Recursion is preferred and higher weightage.

 (a) **State the complexity of your algorithm and justify.**