Merge Finled Fists

To merge two sorted linked lists, the best approach is to use a dummy made and iteratively compare and attack modes from lest 1 and list I in sorted order.

- 1. Execte c. dummy noch to act as the start of the result list.

 2. Use a tail printer that always points to the last mode of the merged list.
 - 3. Mavere both list:
 - · Compare list 1-val and list 1- val

Append the smaller node to tail - next

· Advance the pointes (list 1 91 list 25 that you just used took tail forward

4. After the loop, expend the sext of the non-empty list.

Thy use a dummy mode! !!

It simplifies handling the head you don't need to check of the maged list is empty 21 met.

Vine Complexity:) I (m+n) visit each mode once I (1) extre space

[Example:] Input: list1=[1,24], list2=[1,3,4]
Merged:[1,1,2,3,4]