We have two sorted linked lists:

* List a with N nodes.
* List b with M nodes.

Our goal is to merge these two lists in place, meaning we cannot use extra space proportional to N + M (other than a few pointers). The merged list should also be sorted in ascending order.

### **Example**

For instance, given:

* List a: 5 -> 10 -> 15
* List b: 2 -> 3 -> 20

After merging, the output should be:

* Merged list: 2 -> 3 -> 5 -> 10 -> 15 -> 20