

```
LNode *Merge_LinkedList(LNode *La, LNode *Lb) {
    LNode *Lc, *pa, *pb, *pc, *ptr;
    Lc = La;
    pc = La;
    pa = La->next;
    pb = Lb->next;

    while(pa != NULL && pb != NULL) {
        if(pa->data < pb->data) {
            pc->next = pa;
            pc = pa;
            pa = pa->next;
        }
        else if(pa->data > pb->data) {
            pc->next = pb;
            pc = pb;
            pb = pb->next;
        }

        else if(pa->data == pb->data) {
            pc->next = pa;
            pc = pa;
            pa = pa->next;
            ptr = pb;
            pb = pb->next;
            free(ptr);
        }
    }

    if(pa != NULL) pc->next = pa;
    else pc->next = pb;
    free(Lb);

    return(Lc);
}
```



