```
void MergeList(SqList La, SqList Lb, SqList *Lc) {
        InitList_Sq(Lc);
        int i = 1, j = 1;
        int k = 0;

        ElemType ai, bj;
        int La_len = ListLength_Sq(La);
        int Lb_len = ListLength_Sq(Lb);

        // While not empty
        while((i<=La_len) && (j<=Lb_len)) {
                GetElem_Sq(La, i, &ai);
                GetElem_Sq(Lb, j, &bj);
                if(ai<=bj) {
                        ListInsert_Sq(Lc, ++k, ai);
                        ++i;
                } else {
                        ListInsert_Sq(Lc, ++k, bj);
                        ++j;
                }
        }

        // If one SqList is longer, insert the rest into Lc
        while(i<=La_len) {
                GetElem_Sq(La, i++, &ai);
                ListInsert_Sq(Lc, ++k, ai);
        }
        while(i<=Lb_len) {
                GetElem_Sq(Lb, i++, &bj);
                ListInsert_Sq(Lc, ++k, bj);
        }
}
```

1.
```
   La              Lb              Lc
  | 1 |  [0]      | 4 |  [0]      | - |  [0]
  | 2 |  [1]      | 5 |  [1]
  | 3 |  [2]
```

2.
```
   La              Lb              Lc
  | 1 |  [0]      | 4 |  [0]      | 1 |  [0]
  | 2 |  [1]      | 5 |  [1]
  | 3 |  [2]
```

3.
```
   La              Lb              Lc
  | 1 |  [0]      | 4 |  [0]      | 1 |  [0]
  | 2 |  [1]      | 5 |  [1]      | 2 |  [1]
  | 3 |  [2]
```

4.
```
   La              Lb              Lc
  | 1 |  [0]      | 4 |  [0]      | 1 |  [0]
  | 2 |  [1]      | 5 |  [1]      | 2 |  [1]
  | 3 |  [2]                      | 3 |  [2]
```

5.

La		Lb		Lc	
1	[0]	4	[0]	1	[0]
2	[1]	5	[1]	2	[1]
3	[2]			3	[2]
				4	[3]

6.

La		Lb		Lc	
1	[0]	4	[0]	1	[0]
2	[1]	5	[1]	2	[1]
3	[2]			3	[2]
				4	[3]
				5	[1]