Merge Two Sorted Lists

L1 ①→②→③

L2 ④→⑤→⑥

Merge lists
→ return **Head**

kept on comparing h1 and h2
until the /merging is completed

```
ListNode* Merge2Lists(h1, h2){
  if(h1==NULL || h2==NULL){

    if(h1→val <= h2→val) → case 1
      h1→next = Merge(h1→next, h2)
      return h1

    else   case 2
      h2→next = merge(h1, h2→next)
      return h2;
```

T·C	S·C
$O(n+m)$	