

## 23. Merge k Sorted Lists

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Merge  $k$  sorted linked lists and return it as one sorted list. Analyze and describe its complexity.

**Example:**

**Input :**

```
[  
  1->4->5,  
  1->3->4,  
  2->6  
]
```

**Output:** 1->1->2->3->4->4->5->6