

겹치는 구간을 병합하라.

Input: intervals = [[1,3],[2,6],[8,10],[15,18]]

Output: [[1,6],[8,10],[15,18]]

### 1. 정렬 후 집합 활용

class Solution:

```
def merge(self, intervals: List[List[int]]) -> List[List[int]]:
    intervals.sort(key = lambda x:x[0])
    for i in range(len(intervals) - 1):
        left = set(range(intervals[i][0], intervals[i][1] + 1))
        right = set(range(intervals[i + 1][0], intervals[i + 1][1] + 1))
        if left & right:
            intervals[i + 1] = [min(left | right), max(left | right)]
            intervals[i] = None
    return [i for i in intervals if i != None]
```

### 2. 정렬 후 비교

class Solution:

```
def merge(self, intervals: List[List[int]]) -> List[List[int]]:
    merged = []
    for i in sorted(intervals, key=lambda x: x[0]):
        if merged and i[0] <= merged[-1][1]:
            merged[-1][1] = max(merged[-1][1], i[1])
        else:
            merged += i,
    return merged
```