

Merge Intervals

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Total

Question

Solution

Accepted:

45141 Total Submissions: **198658** Difficulty: **Hard**

Given a collection of intervals, merge all overlapping intervals.

For example,

Given `[1,3],[2,6],[8,10],[15,18]`,

return `[1,6],[8,10],[15,18]`.

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Python



```
1 # Definition for an interval.
2 # class Interval(object):
3 #     def __init__(self, s=0, e=0):
4 #         self.start = s
5 #         self.end = e
6
7 class Solution(object):
8     def compare(self,a,b):
9         if a.start != b.start:
10             return a.start - b.start
11         return a.end - b.end
12     def merge(self, intervals):
13         """
14         :type intervals: List[Interval]
15         :rtype: List[Interval]
16         """
17         returnColumn = []
18         if len(intervals) == 0: return returnColumn
19         intervals = sorted(intervals,cmp=self.compare)
20         returnColumn.append(Interval(intervals[0].start,intervals[0].end))
21         top=0
22         for i in range(1,len(intervals)):
23             if intervals[i].start <= returnColumn[top].end:
24                 returnColumn[top].end = max(intervals[i].end,returnColumn[top].end)
25             else:
26                 returnColumn.append(Interval(intervals[i].start,intervals[i].end))
```

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```
27         top+=1
28     return returnColumn
29
```

Custom Testcase ☐

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