

919 · Meeting Rooms II

Description

Given an array of meeting time intervals consisting of start and end times `[[s1,e1],[s2,e2],...]` ($s_i < e_i$), find the minimum number of conference rooms required.

Example

Example1

Input: intervals = [(0,30),(5,10),(15,20)]

Output: 2

Explanation:

We need two meeting rooms

room1: (0,30)

room2: (5,10), (15,20)

Example2

Input: intervals = [(2,7)]

Output: 1

Explanation:

Only need one meeting room

```
"""
Definition of Interval.
class Interval(object):
    def __init__(self, start, end):
        self.start = start
        self.end = end
"""

import heapq
class Solution:
    """
    @param intervals: an array of meeting time intervals
    @return: the minimum number of conference rooms required
    """

    def minMeetingRooms(self, intervals):
        # Write your code here
        interval = []
        for inter in intervals:
```

```
        interval.append([inter.start,inter.end])
interval = sorted(interval,key=lambda x:(x[0],x[1]))
heap = []
for i in range(len(interval)):
    if i==0:
        heapq.heappush(heap,interval[i][1])
    else:
        if heap[0]>interval[i][0]:
            # heapq.heappop(heap)
            heapq.heappush(heap,interval[i][1])
        else:
            heapq.heappop(heap)
            heapq.heappush(heap,interval[i][1])
return len(heap)
```