255.Meeting Rooms II

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

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For example,
Given [[0, 30],[5, 10],[15, 20]],
return 2.
//C++
//Author:DemonMikalis(ZZW)
#include <iostream>
#include <sstream>
#include <vector>
#include <algorithm>
using namespace std;
struct Interval
{
       int start;
       int end;
};
int meetingRooms2(vector<Interval> &intervals)
       vector<int> s(intervals.size(),0);
       vector<int> e(intervals.size(),0);
       for(int k=0;k<(int)intervals.size();k++)</pre>
              Interval tmp = intervals[k];
              s[k] = tmp.start;
              e[k] = tmp.end;
       sort(s.begin(),s.end());
       sort(e.begin(),e.end());
int room=0;int available=0;int eindex=0;
       for(int i=0;i<(int)intervals.size();i++)</pre>
              while(e[eindex]<=s[i])</pre>
               {
                      eindex++;
                      available++;
              if (available>0)
                      available--;
              else{
                      room++;
              }
       return room;
}
int main(int argc,char *argv[])
       /* [[0, 30],[5, 10],[15, 20]],
*/
       int array[3][2] = \{\{0,30\},\{5,10\},\{15,20\}\};
       vector<Interval> intervals;
       for(int i=0;i<3;i++)
              Interval z;
              z.start=array[i][0];
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z.end=array[i][1];
    intervals.push_back(z);
}
//cout << intervals[0].start << intervals[1].start << endl;
int room = meetingRooms2(intervals);
cout << room << endl;
return 0;
}</pre>
```