

435. Non-overlapping Intervals

QuestionEditorial Solution

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- Total Accepted: **3107**
- Total Submissions: **7857**
- Difficulty: **Medium**
- Contributors: [love_FDU_llp](#)

Given a collection of intervals, find the minimum number of intervals you need to remove to make the rest of the intervals non-overlapping.

Note:

1. You may assume the interval's end point is always bigger than its start point.
2. Intervals like [1,2] and [2,3] have borders "touching" but they don't overlap each other.

Example 1:

Input: [[1,2], [2,3], [3,4], [1,3]]

Output: 1

Explanation: [1,3] can be removed and the rest of intervals are non-overlapping.

Example 2:

Input: [[1,2], [1,2], [1,2]]

Output: 2

Explanation: You need to remove two [1,2] to make the rest of intervals non-overlapping.

Example 3:

Input: [[1,2], [2,3]]

Output: 0

Explanation: You don't need to remove any of the intervals since they're already non-overlapping.

```

import java.util.Arrays;
import java.util.Comparator;

public class OverlapIntervals {

    public static class Interval {
        int start;
        int end;
        Interval() { start = 0; end = 0; }
        Interval(int s, int e) { start = s; end = e; }
    }

    public static int eraseOverlapIntervals(Interval[] intervals) {
        Arrays.sort(intervals,new C());
        int count=intervals.length;
        long lastindex = Long.MIN_VALUE;
        for(Interval i:intervals)
        {
            if(i.start>=lastindex)
            {
                lastindex = i.end;
                count--;
            }
        }
        return count;
    }

    static class C implements Comparator<Interval>
    {
        @Override
        public int compare(Interval o1, Interval o2) {
            // TODO Auto-generated method stub
            return Integer.compare(o1.end,o2.end);
        }
    }

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        //driver the problem
        // [ [1,2], [2,3], [3,4], [1,3] ]
        int arrays[][] = {{1,2},{2,3},{3,4},{1,3}};
        Interval[] inter = new Interval[arrays.length];
        for(int i=0;i<arrays.length;i++)
        {
            inter[i] = new Interval(arrays[i][0],arrays[i][1]);
        }
    }
}

```

```
int ans = eraseOverlapIntervals(inter);  
System.out.println(ans);  
}  
  
}
```