

75 Days of Code

Day 72

Problem no : Leetcode 435

Problem Title : Non-overlapping Intervals

Problem type : Intervals

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Given an array of intervals `intervals` where `intervals[i] = [starti, endi]`, return the minimum number of intervals you need to remove to make the rest of the intervals non-overlapping.

Example 1:

Input: `intervals = [[1,2],[2,3],[3,4],[1,3]]`

Output: 1

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

Example 2:

Input: `intervals = [[1,2],[1,2],[1,2]]`

Output: 2

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

Example 3:

Input: `intervals = [[1,2],[2,3]]`

Output: 0

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

.

```
day72.ts > ...
1  function eraseOverlapIntervals(intervals: number[][]): number {
2      if (intervals.length <= 1) {
3          return 0; // No overlaps if there are 0 or 1 intervals
4      }
5
6      intervals.sort((a, b) => a[1] - b[1]);
7      let countOverLap = 0;
8      let prevInterval = intervals[0];
9
10     for (let i = 1; i < intervals.length; i++) {
11         const currentInterval = intervals[i];
12         if (currentInterval[0] < prevInterval[1]) {
13             countOverLap++;
14         } else {
15             prevInterval = currentInterval;
16         }
17     }
18
19     return countOverLap;
20
21 };
22
23
```

✓ Accepted



Runtime

Details

197 ms

Beats 47.59% of users with TypeScript

Memory

75.72 MB

Beats 76.47% of users with TypeScript