435. Non-overlapping Intervals

Medium   👍 925   👎 33   ♡ Add to List   📤 Share

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

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.
```

```cpp
int eraseOverlapIntervals(vector<vector<int>> &intervals)
{
    int n = intervals.size();
    if (n == 0)
        return 0;
    int count = 0;
    sort(intervals.begin(), intervals.end(), [](auto &a, auto &b) {
        return a[1] < b[1];
    });
    int end = intervals[0][1];
    for (int i = 1; i < n; i++)
    {
        if (end <= intervals[i][0])  // non overlapping.
            end = intervals[i][1];
        else
            count++;  // overlapping.
    }
    return count;
}
```

✱ how it is guarantee, Smaller end will be at first

①

②
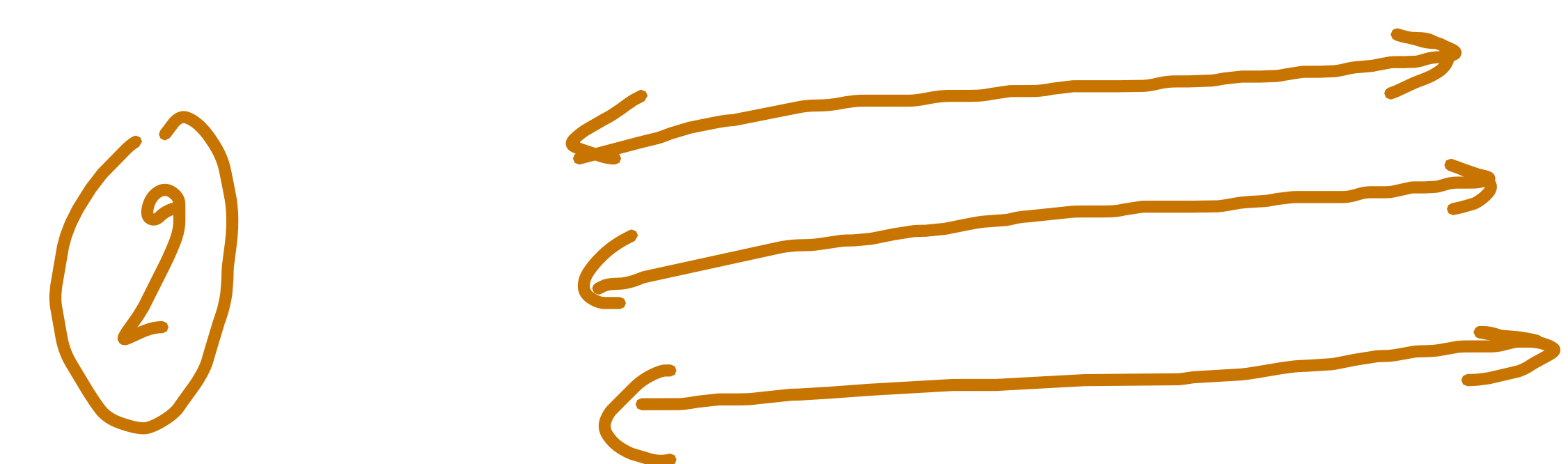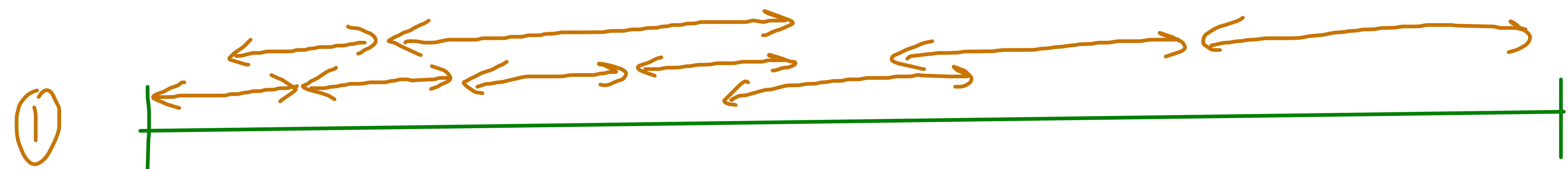
③

so idhar humara target jo sabse phle khatam hua hai.
Uske age se agla ksam start karo so small duration wale work
phle khatm honge And hum zada kaam krskte hai.
bakki jo bhi rhegya vo overlapped tha.