Non-overlapping Intervals

Try to solve the Non-overlapping Intervals problem.

We'll cover the following

- Statement
- Examples
- Understand the problem
- Try it yourself

Statement

Given an array of intervals where `intervals[i]` = $[start_i, end_i]$, your task is to find the minimum number of intervals you need to remove to make the rest of the intervals non-overlapping.

Constraints:

- $1 \leq$ `intervals.length` $\leq 10^5$
- `intervals[i].length` $== 2$
- $-5 \times 10^4 \leq start_i < end_i \leq 5 \times 10^4$

Examples

Sample example 1

Input

intervals	[1, 4]	[3, 6]	[5, 8]	[9, 11]

Output

1

We need to remove [3, 6] interval to make the rest of the intervals non-overlapping.

1 of 2

Sample example 2

Input

intervals	[1, 3]	[4, 6]	[5, 9]	[6, 10]	[6, 10]	[12, 15]

Output

2

We need to remove [5, 9] and [6, 10] intervals to make the rest of the intervals non-overlapping.

Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

Non-overlapping Intervals

1 What is the output if the following array of intervals is given as input?

intervals = [[1, 2], [2, 4], [4, 7], [5, 6]]

A) 1

B) 2

C) 3

D) 0

Submit Answer

Question 1 of 3
0 attempted

Reset Quiz

Try it yourself

Implement your solution in the following coding playground:

Java

usercode > Solution.java

```
1  import java.util.*;
2
3  class Solution {
7
8      return -1;
9
10   }
11 }
```

Powered by AI

Submit

Test Cases | Results

Case 1 | Case 2 | Case 3

Input #1

[[1,2],[2,4],[3,6],[5,10]]

Non-overlapping Intervals

Hide Hint

You might want to go over the Merge Intervals pattern again.

Back

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Next

Meeting Rooms

Mark as Completed