

Problem Challenge 1

We'll cover the following ^

- Next Interval (hard)
- Try it yourself

Next Interval (hard)

Given an array of intervals, find the next interval of each interval. In a list of intervals, for an interval 'i' its next interval 'j' will have the smallest 'start' greater than or equal to the 'end' of 'i'.

Write a function to return an array containing indices of the next interval of each input interval. If there is no next interval of a given interval, return -1. It is given that none of the intervals have the same start point.

Example 1:

Input: Intervals [[2,3], [3,4], [5,6]]

Output: [1, 2, -1]

Explanation: The next interval of [2,3] is [3,4] having index '1'. Similarly, the next interval of [3,4] is [5,6] having index '2'. There is no next interval for [5,6] hence we have '-1'.

Example 2:

Input: Intervals [[3,4], [1,5], [4,6]]

Output: [2, -1, -1]

Explanation: The next interval of [3,4] is [4,6] which has index '2'. There is no next interval for [1,5] and [4,6].

Try it yourself

Try solving this question here:

Java

Python3

JS

C++

```
1 import java.util.*;
2
3 class Interval {
4     int start = 0;
5     int end = 0;
6
7     Interval(int start, int end) {
8         this.start = start;
9         this.end = end;
10    }
11 }
12
13 class NextInterval {
14     public static int[] findNextInterval(Interval[] intervals) {
15         int[] result = new int[intervals.length];
16         // TODO: Write your code here
17         return result;
18     }
19 }
20
21 public static void main(String[] args) {
22     Interval[] intervals = new Interval[] { new Interval(2, 3), new Interval(3, 4), new Interval(5, 6) };
23     int[] result = NextInterval.findNextInterval(intervals);
24     System.out.print("Next interval indices are: ");
25     for (int index : result)
26         System.out.print(index + " ");
27     System.out.println();
28     intervals = new Interval[] { new Interval(3, 4), new Interval(1, 5), new Interval(4, 6) };
29 }
```


Run



Save

Reset

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