

Insert Interval

Try to solve the Insert Interval problem.

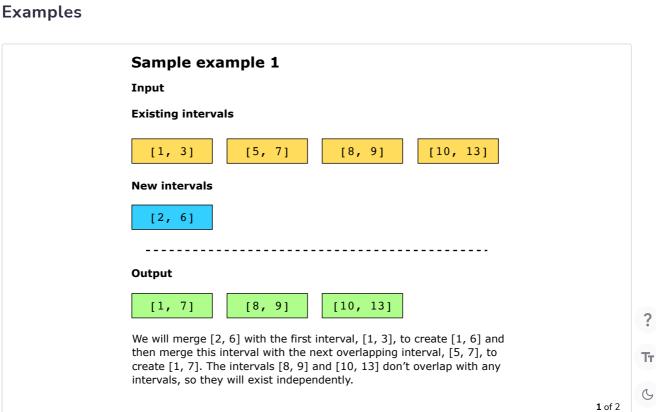
We'll cover the following Statement Examples · Understand the problem • Figure it out Try it yourself

Statement

Given a sorted list of nonoverlapping intervals and a new interval, your task is to insert the new interval into the correct position while ensuring that the resulting list of intervals remains sorted and nonoverlapping. Each interval is a pair of nonnegative numbers, the first being the start time and the second being the end time of the interval.

Constraints:

- $0 \le \text{existing_intervals.length} \le 10^4$
- existing_intervals[i].length, new_interval.length == 2
- $0 \le \text{start time}$, end time $\le 10^4$
- The first number should always be less than the second number in each interval.
- The list of intervals is sorted in ascending order based on the first element in every interval.





Understand the problem

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

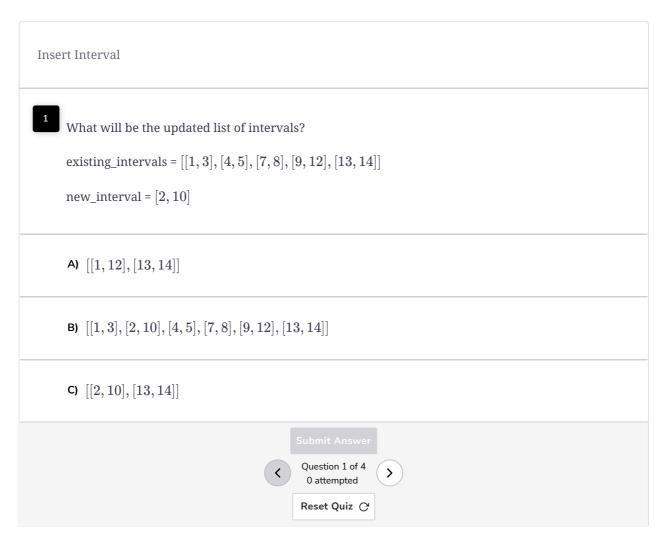
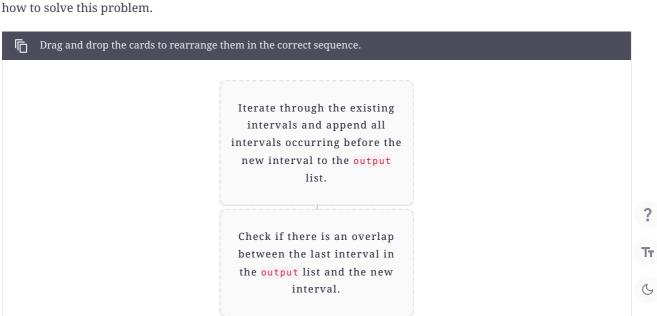
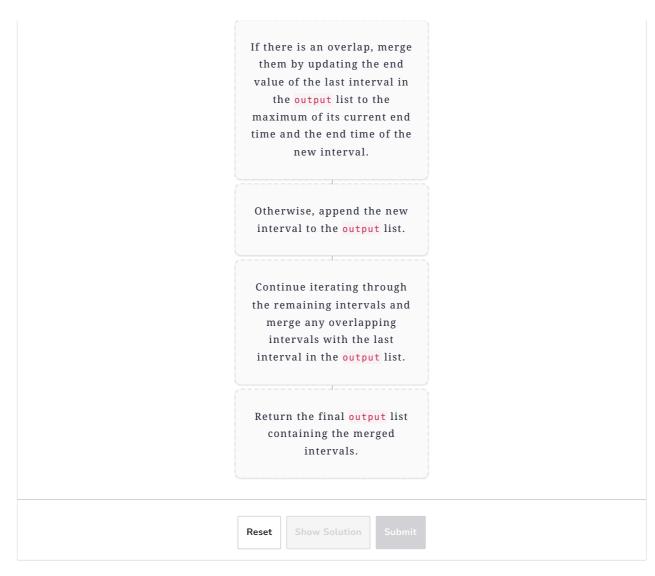


Figure it out

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.





Try it yourself

Implement your solution in InsertInterval.java in the following coding playground.

```
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>_
                                1 import java.util.*;
 InsertInterval.java
                                2 class InsertInterval {
 Interval.java
                                    public static List <Interval> insertInterval(List <Interval> existingInterv
                                4
                                       List <Interval> output = new ArrayList <Interval> ();
                                5
                                       // Write your code here
                                6
                                7
                                        return output;
                                8
                                    }
                                9 }
                                                                                  Powered by Al
                                                                                                           Submit
Test Cases
              Results
                                                                                                                       ?
  Case 1
             Case 2
                       Case 3
 Input #1
                                                                                                                       Tτ
  [[1,2],[3,4],[5,8],[9,15]]
                                                                                                                       6
 Input #2
```

[2,5]

Insert Interval



Solution: Merge Interv...



Solution: Insert Interval



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