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## 57. Insert Interval

**Medium**

8.7K

623

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You are given an array of non-overlapping intervals `intervals` where `intervals[i] = [starti, endi]` represent the start and the end of the *i*<sup>th</sup> interval and `intervals` is sorted in ascending order by `starti`. You are also given an interval `newInterval = [start, end]` that represents the start and end of another interval.

Insert `newInterval` into `intervals` such that `intervals` is still sorted in ascending order by `starti` and `intervals` still does not have any overlapping intervals (merge overlapping intervals if necessary).

Return `intervals` after the insertion.

### Example 1:

**Input:** `intervals = [[1,3],[6,9]]`, `newInterval = [2,5]`

**Output:** `[[1,5],[6,9]]`

### Example 2:

**Input:** `intervals = [[1,2],[3,5],[6,7],[8,10],[12,16]]`,  
`newInterval = [4,8]`

**Output:** `[[1,2],[3,10],[12,16]]`

**Explanation:** Because the new interval `[4,8]` overlaps with `[3,5]`, `[6,7]`, `[8,10]`.

`i` Java

• Auto

```
1 class Solution {
2     public int[][] insert(int[][] ints, int[] newInterval) {
3         int[][] intervals = new int[ints.length + 1][2];
4         for (int i = 0; i < ints.length; i++) {
5             intervals[i][0] = ints[i][0];
6             intervals[i][1] = ints[i][1];
7         }
8         intervals[intervals.length - 1][0] = newInterval[0];
9         intervals[intervals.length - 1][1] = newInterval[1];
10
11         Arrays.sort(intervals, (o1, o2) -> Integer.compare(o1[0], o2[0]));
12         int count = 0, start = intervals[0][0], end = intervals[0][1];
13         int[][] resTemp = new int[intervals.length][2];
14         for (int i = 1; i < intervals.length; i++) {
15             int s = intervals[i][0], e = intervals[i][1];
16             if (s <= end) {
17                 end = Math.max(e, end);
18             } else {
```

Testcase

Result

**Accepted** Runtime: 0 ms

• Case 1

• Case 2

Input

intervals =  
[[1,3],[6,9]]

newInterval =  
[2,5]

Output

Console



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## 46. Permutations

Medium 17.1K 274

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Given an array `nums` of distinct integers, return *all the possible permutations*. You can return the answer in **any order**.

### Example 1:

**Input:** `nums = [1,2,3]`

**Output:** `[[1,2,3],[1,3,2],[2,1,3],[2,3,1],[3,1,2],[3,2,1]]`

### Example 2:

**Input:** `nums = [0,1]`

**Output:** `[[0,1],[1,0]]`

### Example 3:

**Input:** `nums = [1]`

**Output:** `[[1]]`

### Constraints:

- $1 \leq \text{nums.length} \leq 6$
- $-10 \leq \text{nums}[i] \leq 10$

i Java • Auto

```
1 class Solution {
2     public List<List<Integer>> permute(int[] nums) {
3         List<List<Integer>> res=new ArrayList<>();
4         backtrack(res,nums,0);
5         return res;
6     }
7     public void backtrack( List<List<Integer>> res, int[] nums, int index){
8         if(index==nums.length){
9             res.add(toList(nums));
10        }
11        else{
12            for(int i=index;i<nums.length;i++){
13                swap(index,i,nums);
14                backtrack(res,nums,index+1);
15                swap(index,i,nums);
16            }
17        }
18    }
```

Testcase Result

**Accepted** Runtime: 0 ms

• Case 1 • Case 2 • Case 3

Input

nums =

[1,2,3]

Output

[[1,2,3],[1,3,2],[2,1,3],[2,3,1],[3,2,1],[3,1,2]]

Console



Run

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