


1. Merge Sorted Array

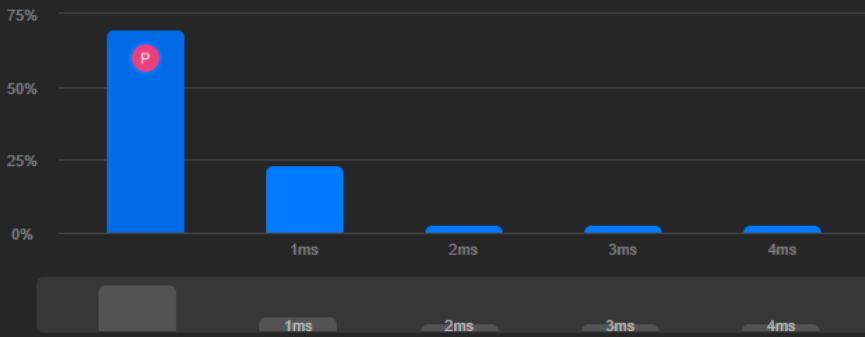
```
public class Solution {
    public void merge(int[] nums1, int m, int[] nums2, int n) {
        int i = m - 1, j = n - 1, k = m + n - 1;
        while (i >= 0 && j >= 0) {
            if (nums1[i] > nums2[j]) {
                nums1[k--] = nums1[i--];
            } else {
                nums1[k--] = nums2[j--];
            }
        }
        while (j >= 0) {
            nums1[k--] = nums2[j--];
        }
    }
}
```

Accepted 59 / 59 testcases passed
P Preet Jawla submitted at Feb 04, 2025 16:12

[Editorial](#) [Solution](#)

Runtime 0 ms | Beats 100.00%  [Analyze Complexity](#)

Memory 42.47 MB | Beats 26.33%



Code | Java

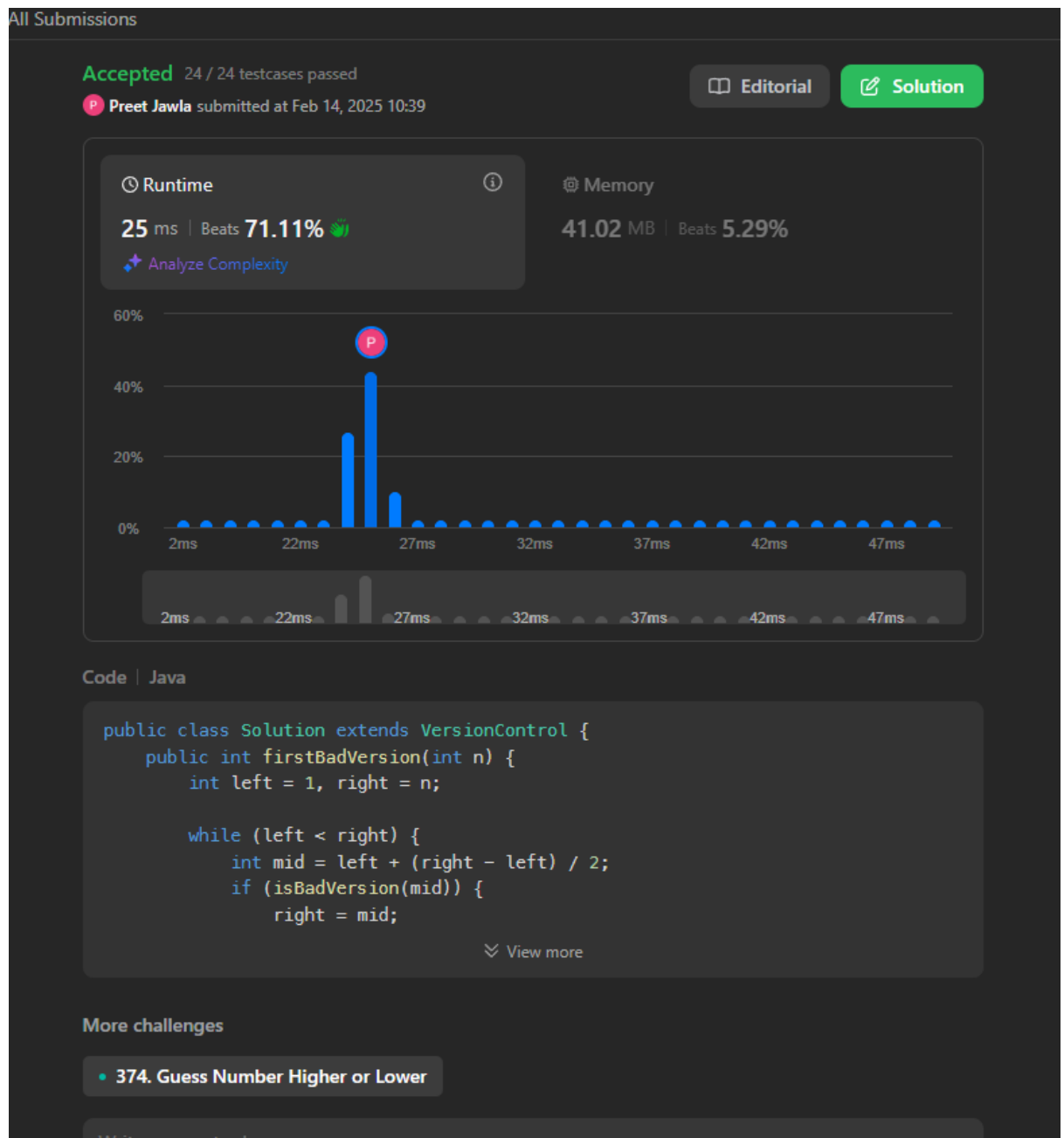
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    public void merge(int[] nums1, int m, int[] nums2, int n) {
        int i = m - 1, j = n - 1, k = m + n - 1;
        while (i >= 0 && j >= 0) {
            if (nums1[i] > nums2[j]) {
                nums1[k--] = nums1[i--];
            } else {
                nums1[k--] = nums2[j--];
            }
        }
        while (j >= 0) {
            nums1[k--] = nums2[j--];
        }
    }
}
```

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2. First-Bad Version

```
public class Solution extends VersionControl {  
    public int firstBadVersion(int n) {  
        int left = 1, right = n;  
  
        while (left < right) {  
            int mid = left + (right - left) / 2;  
            if (isBadVersion(mid)) {  
                right = mid;  
            } else {  
                left = mid + 1;  
            }  
        }  
  
        return left;  
    }  
}
```



3. Sort Color

```
public class Solution {
    public void sortColors(int[] nums) {
        int low = 0, mid = 0, high = nums.length - 1;
        while (mid <= high) {
            if (nums[mid] == 0) {
                swap(nums, low++, mid++);
            } else if (nums[mid] == 1) {
                mid++;
            } else {
                swap(nums, mid, high--);
            }
        }
    }
}
```

```

    }
}

private void swap(int[] nums, int i, int j) {
    int temp = nums[i];
    nums[i] = nums[j];
    nums[j] = temp;
}
}

```



4. Kth largest element in an array

```

class Solution {
    public int findKthLargest(int[] nums, int k) {
        PriorityQueue<Integer> minHeap = new PriorityQueue<>();

        for (int num : nums) {
            minHeap.add(num);
            if (minHeap.size() > k) {

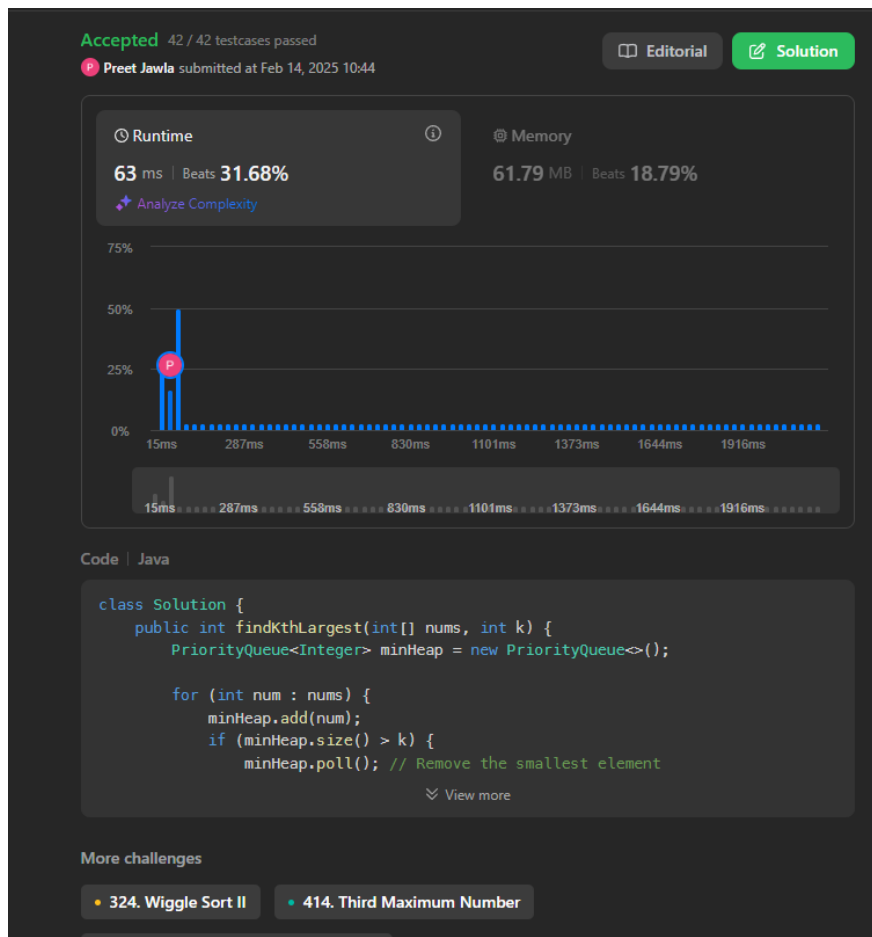
```

```

        minHeap.poll();
    }
}

return minHeap.peek();
}
}

```



5. Merge interval

```

public class Solution {
    public int[][] merge(int[][] intervals) {
        if (intervals.length == 0) return new int[0][0];

```

```

        Arrays.sort(intervals, (a, b) -> Integer.compare(a[0], b[0]));

```

```

        List<int[]> result = new ArrayList<>();
        int[] currentInterval = intervals[0];
        result.add(currentInterval);

```

```

        for (int[] interval : intervals) {
            if (interval[0] <= currentInterval[1]) {

```

```

        currentInterval[1] = Math.max(currentInterval[1], interval[1]);
    } else {
        currentInterval = interval;
        result.add(currentInterval);
    }
}

return result.toArray(new int[result.size()][]);
}
}

```

