

# LeetCode Sorting and Searching Questions

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This list includes 30 LeetCode problems focused on sorting and searching, ranging from easy to rigorous difficulty, and contains some of the best problems that are commonly recommended for mastering these concepts.

## Sorting Questions

### Easy

1. [Sort an Array](#)
2. [Merge Sorted Array](#)
3. [Squares of a Sorted Array](#)
4. [Relative Sort Array](#)
5. [Intersection of Two Arrays](#)
6. [Missing Number](#)
7. [Height Checker](#)
8. [Sort Colors](#) - A classic problem to understand the Dutch National Flag algorithm.
9. [Intersection of Two Arrays II](#) - Uses sorting for intersection logic.

### Medium

10. [Sort Colors](#)
11. [Kth Largest Element in an Array](#)
12. [Meeting Rooms II](#)
13. [Maximum Gap](#)
14. [Wiggle Sort II](#)
15. [Top K Frequent Elements](#)
16. [Find K-th Smallest Pair Distance](#)

### Hard

17. [Merge Intervals](#) - A must-know problem for understanding interval merging.
18. [First Missing Positive](#) - Involves clever sorting with constant space.
19. [Largest Number](#)
20. [Reverse Pairs](#) - A more rigorous problem using merge sort to count inversions.
21. [Russian Doll Envelopes](#) - Combines sorting with dynamic programming for nested intervals.
22. [Minimum Number of Arrows to Burst Balloons](#)

## Searching Questions

### Easy

1. [Binary Search](#) - The classic binary search problem.
2. [Search Insert Position](#) - Basic application of binary search.
3. [First Bad Version](#) - Binary search with a twist.
4. [Guess Number Higher or Lower](#)

## Medium

5. [Search in Rotated Sorted Array](#) - Combines binary search with rotated arrays.
6. [Find Peak Element](#) - Binary search to find peaks in an array.
7. [Find First and Last Position of Element in Sorted Array](#) - Binary search variations for boundaries.
8. [Search a 2D Matrix II](#)

## Hard

9. [Median of Two Sorted Arrays](#) - A tricky problem often asked in interviews, combining binary search with median logic.
  10. [Search in Rotated Sorted Array II](#) - A more complex version of the rotated array search.
  11. [Find Minimum in Rotated Sorted Array II](#) - A variant requiring handling of duplicates in rotated arrays.
  12. [Maximum Number of Events That Can Be Attended](#) - Combines sorting with a priority queue for event management.
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