**Basic Operations**

1. **Find the maximum/minimum element in an array.**
2. **Reverse an array.**
3. **Find the sum of all elements in an array.**
4. **Find the average of all elements in an array.**
5. **Shift all zeros to the end of the array.**

**Searching and Sorting**

1. **Binary Search in a sorted array.**
2. **Find the first occurrence of an element.**
3. **Check if an array is sorted.**
4. **Merge two sorted arrays.**
5. **Find the kth largest/smallest element.**

**Subarrays**

1. **Find the maximum sum subarray (Kadane’s Algorithm).**
2. **Count the number of subarrays with a given sum.**
3. **Find the longest increasing subarray.**
4. **Find the product of elements in a subarray with a given sum.**
5. **Find the subarray with the maximum product.**

**Array Manipulation**

1. **Rotate an array by k positions (Cyclically rotate an array).**
2. **Find the missing number in a given array of n-1 elements.**
3. **Find duplicates in an array.**
4. **Find common elements in three sorted arrays.**
5. **Rearrange an array such that positive and negative numbers are placed alternatively.**

**Advanced Problems**

1. **Find the majority element in an array (appears more than n/2 times).**
2. **Find the maximum difference between two elements in the array.**
3. **Find the smallest missing positive integer.**
4. **Find the intersection and union of two arrays.**
5. **Find the next greater element for each element in the array.**

**Matrix (2D Arrays)**

1. **Rotate a matrix by 90 degrees.**
2. **Transpose a matrix.**
3. **Find the sum of each row and column in a matrix.**
4. **Find the largest rectangle of 1’s with a sum greater than a given value.**
5. **Search an element in a row-wise and column-wise sorted matrix.**

**Practice Concepts**

* **Sliding Window Technique**: Useful for problems involving subarrays or contiguous segments of arrays.
* **Two Pointers Technique**: Often used in problems involving pairs or partitions within an array.

Practicing these problems will help you get comfortable with array manipulation and common algorithms. Would you like help with solving any specific problems?