Java DSA: Arrays Problem Tracker

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Level 1: Basics & Core Understanding

1. Print all elements of array

2. Find the maximum and minimum element

3. Calculate sum and average of array elements

4. Count even and odd numbers

5. Linear Search in array

6. Check if array is sorted

7. Copy array elements into another array

8. Find index of an element

Level 2: Reversal & Rotation

1. Reverse the array

2. Left rotate by one position

3. Right rotate by one position

4. Rotate array by k positions

5. Reverse elements between two indexes

6. Move all zeros to end (maintain order)

7. Move negative elements to one side

Level 3: Frequency, Count & Prefix

1. Count frequency of each element

2. Find the number that appears once (all others appear twice)

3. Find duplicates in array

4. Majority element (appears more than n/2 times)

5. Prefix sum of array

6. Maximum sum of subarray of size K (Sliding Window)

Level 4: Thinking & Patterns (2-pointer, Sorting)

1. Two sum problem

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2. Find pair with given sum

3. Find triplets with zero sum

4. Merge two sorted arrays

5. Remove duplicates from sorted array

6. Sort array of 0s, 1s and 2s (Dutch National Flag)

7. Longest subarray with given sum (using HashMap)

8. Kadanes Algorithm (max subarray sum)

Bonus: Challenge Yourself

1. Find the median of an array

2. Find the first repeating element

3. Rearrange array in max-min form

4. Minimum number of swaps to sort array

5. Count inversions in array

6. Array subset of another array