

Array Patterns With Question Sets

The screenshot shows a Google Sheet with the following structure:

- Header Row (Row 1):** Labeled A through F, corresponding to the problem patterns.
- Row 2:** Labeled "Pattern Type".
- Row 3:** Labeled "Scenarios".
- Row 4:** Labeled "Clue".
- Row 5:** Labeled "Questions".

The columns represent different DSA patterns:

- A: Two Pointers**
- B: Merge Intervals**
- C: Sorting**
- D: Sliding Window**
- E: Prefix Sums**

The content in the rows includes:

- Scenarios:** Describes typical starting points or positions within the array, comparing elements from different parts simultaneously.
- Clue:** Provides hints for solving the problem, such as looking for sorted arrays or specific properties like "maximum sum" or "minimum length."
- Questions:** Lists specific LeetCode problems related to each pattern, such as "Two Sum", "Merge Intervals", "Sort Colors", "Minimum Size Subarray Sum", and "Count of Smaller Numbers After Self".

Binary Search Pattern With Question Sets

DSA Pattern Wise - Sample							
File Edit View Insert Format Data Tools Extensions Help							
100% 123 Arial 12 B I A							
B3	Look for scenarios where the array is sorted, and you need to find a specific element efficiently.						
	A	B	C	D	E	F	G
1	Pattern Type	Basic Binary Search	Range Search	Allocation Problems	Counting Occurrences	Bitonic Array Search	
2	Scenarios	Involves searching for a target element in a sorted array by repeatedly dividing the search interval in half.	Involves searching for the maximum or minimum value that satisfies a specific condition within a given range.	Involves dividing resources or items among multiple entities while optimizing a certain criterion.	Involves counting the number of occurrences of a specific value or satisfying a certain condition.	Involves searching for an element in a bitonic array, which first increases and then decreases (or vice versa).	
3	Clue	Look for scenarios where the array is sorted, and you need to find a specific element efficiently.	Look for scenarios where you need to optimize a value within a given range, such as maximizing or minimizing a certain condition.	Look for scenarios where resources need to be distributed among entities with certain constraints, and the goal is to optimize a certain criterion, such as minimizing the maximum or maximizing the minimum.	Look for scenarios where you need to count occurrences or determine the frequency of certain elements/values in a sorted array or range.	Look for scenarios where the array exhibits a bitonic behavior, and you need to find an element within it efficiently.	
4							
5		Search Insert Position: https://leetcode.com/problems/search-insert-position/	Split Array Largest Sum: https://leetcode.com/problems/split-array-largest-sum/	Allocate Minimum Number of Pages: https://www.interviewbit.com/problems/allocate-books/	Find First and Last Position of Element in Sorted Array: https://leetcode.com/problems/find-first-and-last-position-of-element-in-sorted-array/	Find Peak Element: https://leetcode.com/problems/find-peak-element/	
6		Find Minimum in Rotated Sorted Array: https://leetcode.com/problems/find-minimum-in-rotated-sorted-array/	Find Kth Smallest Element in a Sorted Matrix: https://leetcode.com/problems/kth-smallest-element-in-a-sorted-matrix/	Minimize Maximum Pair Sum in Array: https://leetcode.com/problems/minimize-maximum-pair-sum-in-array/	Count Negative Numbers in a Sorted Matrix: https://leetcode.com/problems/count-negative-numbers-in-a-sorted-matrix/	Find in Mountain Array: https://leetcode.com/problems/find-in-mountain-array/	
7	Questions	Peak Index in a Mountain Array: https://leetcode.com/problems/peak-index-in-a-mountain-array/	Capacity To Ship Packages Within D Days: https://leetcode.com/problems/capacity-to-ship-packages-within-d-days/	Divide Chocolate: https://leetcode.com/problems/divide-chocolate/	Search a 2D Matrix II: https://leetcode.com/problems/search-a-2d-matrix-ii/	Longest Mountain in Array: https://leetcode.com/problems/longest-mountain-in-array/	
8		Find Smallest Letter Greater Than Target: https://leetcode.com/problems/find-smallest-letter-greater-than-target/	Maximum Average Subarray I: https://leetcode.com/problems/maximum-average-subarray-i/	Maximum Distance to Gas Station: https://leetcode.com/problems/minimize-max-distance-to-gas-station/	Find Minimum in Rotated Sorted Array II: https://leetcode.com/problems/find-minimum-in-rotated-sorted-array-ii/	Peak Index in a Mountain Array: https://leetcode.com/problems/peak-index-in-a-mountain-array/	
+ Arrays Strings Binary Search Recursion Linked List Stacks & Queues Binary Trees & BST Priority Queues Dynamic Programming							

To get patterns of all data structures & algorithms of strings, graphs, recursion, dynamic programming along with question sets.

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