## **Detailed Study Plan for Data Structures & Algorithms (FAANG Prep)**

## Week 1: Arrays & Two-Pointer Technique

Description: Solve a mix of array-based problems to solidify learning.

Day 1	Arrays Basics	GeeksforGeeks Arrays Ba	xsTiosneP.DIFhr	Two Sum,
Description: Introduction to arrays, syntax, and basic operations in Python.				
Example Problems: Prac	ctice problems: Two Sum, Rotate	e Array		
Day 2	Prefix Sum in Arrays	Prefix Sum Explanation - Geeks	sfför@eeeks hrs	Subarray Su
Description: Learn prefix sum for efficient range sum queries within arrays.				
Example Problems: Practice problems: Subarray Sum Equals K, Maximum Sum Subarray				
Day 3	Two-Pointer Technique	LeetCode Two Pointers Explore	eTime: 1.5 hrs	Container W
Description: Explore two-pointer technique for array problems requiring pairwise comparison.				
Example Problems: Practice problems: Container With Most Water, Remove Duplicates				
Day 4	Sliding Window Basics	Sliding Window - GeeksforGeel	ksime: 1.5 hrs	Longest Sub
Description: Using sliding window for subarray problems with fixed or variable window sizes.				
Example Problems: Practice problems: Longest Substring Without Repeating Characters, Max Sum Subarray				
Day 5	Sliding Window Advanced	Educative Sliding Window Patte	effime: 2 hrs	Minimum W
Description: Master advanced sliding window techniques for more complex subarray problems.				
Example Problems: Practice problems: Minimum Window Substring, Longest Subarray with Sum K				
Day 6	Arrays & String Review	-	Time: 2 hrs	Repeat 2-3
Description: Review challenging problems on arrays and revisit key concepts.				
Example Problems: Rec	commended: Repeat 2-3 problem	ıs		
Day 7	Mock Test/Problem Solving Day		Time: 2 hrs	Mixed array

Example Problems: Practice problems: Mixed array problems