Day 1 – Arrays Basics

1. Find the maximum element in an array

2. Find the minimum element in an array

3. Reverse an array in-place

4. Rotate array by k positions

5. Find the second largest element

6. Compute prefix sums of an array

7. Check if array is sorted

8. Find frequency of each element

9. Move all zeros to the end

10. Find leaders in an array

11. Find missing number in 1..n array

12. Linear search for a target element

13. Binary search in a sorted array

14. Find intersection of two arrays

15. Find union of two arrays

16. Count occurrences of an element

17. Find subarray with maximum sum (Kadane's algorithm)

18. Sort colors (Dutch National Flag problem)

19. Merge two sorted arrays

20. Find majority element in an array

Day 2 – Arrays (Basic)

1. Find missing number in an array of size n-1 with numbers 1..n

2. Remove duplicates from a sorted array

3. Move all zeros to end

4. Union of two arrays

5. Intersection of two arrays

6. Find leaders in an array

7. Rotate array by k positions

8. Find max and min element

9. Check if array is sorted

10. Compute prefix sums

11. Find second largest element

12. Count occurrences of a number

13. Linear search

14. Binary search

15. Reverse array

16. Find subarray with maximum sum

17. Sort array of 0,1,2

18. Find majority element

19. Find duplicate number

20. Find missing elements in an unsorted array

Day 3 – Arrays Easy/Medium

1. LeetCode 1: Two Sum
2. LeetCode 53: Maximum Subarray
3. LeetCode 121: Best Time to Buy and Sell Stock
4. LeetCode 238: Product of Array Except Self
5. LeetCode 287: Find the Duplicate Number
6. LeetCode 167: Two Sum II - Input array is sorted
7. GFG: Leaders in an array
8. GFG: Kadane's Algorithm
9. GFG: Minimum swaps to sort
10. GFG: Maximum consecutive 1s
11. GFG: Rotate matrix 90 degree
12. GFG: Trapping Rain Water
13. LeetCode 42: Trapping Rain Water
14. LeetCode 238: Product of Array Except Self
15. LeetCode 905: Sort Array By Parity
16. LeetCode 283: Move Zeroes
17. LeetCode 88: Merge Sorted Array
18. LeetCode 977: Squares of a Sorted Array
19. LeetCode 1480: Running Sum of 1d Array
20. LeetCode 169: Majority Element

Day 4 – Strings Basics

1. Reverse a string
2. Check if a string is palindrome
3. Find length of string without using built-in function
4. Count vowels and consonants
5. Remove spaces from a string
6. Check if two strings are anagrams
7. Compare two strings
8. Substring extraction
9. Find first non-repeating character
10. Find first repeating character
11. Concatenate two strings
12. Convert string to integer (atoi)
13. Check rotations of strings
14. Remove duplicates in string
15. Find longest word in sentence
16. Check if string is palindrome ignoring case
17. Replace character in string
18. Check if string contains only digits
19. Check if string is valid number
20. Check if string contains substring

Day 5 – Strings (Basic)

1. Find longest common prefix
2. Implement strstr()
3. Check string rotations
4. Remove duplicate characters
5. Count words in a string
6. Check if two strings are isomorphic
7. Check if string contains all vowels
8. Reverse words in a sentence
9. Convert string to uppercase
10. Convert string to lowercase
11. Check if string contains only digits
12. Check if string starts with prefix
13. Check if string ends with suffix
14. Find all permutations of string
15. Check if two strings are anagrams ignoring spaces
16. Count occurrence of a substring
17. Remove punctuation from string
18. Check if string is palindrome ignoring spaces
19. Find first unique word in string
20. Replace spaces with %20 (URLify)

Day 6 – Strings Easy/Medium

1. LeetCode 344: Reverse String

2. LeetCode 14: Longest Common Prefix

3. LeetCode 242: Valid Anagram

4. LeetCode 49: Group Anagrams

5. LeetCode 3: Longest Substring Without Repeating Characters

6. LeetCode 28: Implement strStr()

7. GFG: Longest Palindrome in a string

8. LeetCode 171: Excel Sheet Column Number

9. LeetCode 58: Length of Last Word

10. LeetCode 387: First Unique Character in a String

11. LeetCode 205: Isomorphic Strings

12. LeetCode 6: ZigZag Conversion

13. LeetCode 383: Ransom Note

14. GFG: Count number of subsequences

15. GFG: Replace all spaces

16. LeetCode 791: Custom Sort String

17. LeetCode 521: Longest Uncommon Subsequence I

18. GFG: Check if two strings are rotations

19. LeetCode 271: Encode and Decode String

20. LeetCode 709: To Lower Case

Day 7 – Weekly Contest / Review

1. Solve 7–10 easy array/string problems from LeetCode/GFG

2. Reattempt tricky problems from Day 1–6

3. Timed 1-hour mock contest with 5–7 problems

4. Analyze mistakes and revise concepts

5. Focus on weak topics for arrays/strings

6. Practice coding in O(N) or O(N log N) time

7. Implement optimized solutions

8. Re-solve problems without looking at hints

9. Review all important string and array functions

10. Plan next week's recursion practice

11. Solve 2 LeetCode easy + 2 medium problems

12. Review problem-solving patterns learned

13. Focus on sliding window / two-pointer techniques

14. Optimize previously solved problems

15. Check edge cases for all problems

16. Verify time and space complexity

17. Write short notes for tricky problems

18. Attempt GFG challenge problems

19. Revisit prefix sum / Kadane's pattern

20. Final review before moving to recursion