

# # ■ 7-Day DSA Problem Sheet (Arrays, Linked List, Stack)

## ## Day 1 – Arrays Basics

1. Reverse String (LeetCode 344) - <https://leetcode.com/problems/reverse-string/>
2. Rotate Array (LeetCode 189) - <https://leetcode.com/problems/rotate-array/>
3. Maximum Subarray (LeetCode 53 – Kadane's) - <https://leetcode.com/problems/maximum-subarray/>
4. Subarray with Given Sum (GFG) - <https://www.geeksforgeeks.org/problems/subarray-with-given-sum-1587115621/1>
5. Two Sum (LeetCode 1) - <https://leetcode.com/problems/two-sum/>

## ## Day 2 – Arrays Advanced

1. Sliding Window Maximum (LeetCode 239) - <https://leetcode.com/problems/sliding-window-maximum/>
2. Trapping Rain Water (LeetCode 42) - <https://leetcode.com/problems/trapping-rain-water/>
3. Maximum Size Subarray Sum Equals k (LeetCode 325) - <https://leetcode.com/problems/maximum-size-subarray-sum-equals-k/>
4. Product of Array Except Self (LeetCode 238) - <https://leetcode.com/problems/product-of-array-except-self/>
5. Majority Element (LeetCode 169) - <https://leetcode.com/problems/majority-element/>

## ## Day 3 – Linked List Basics

1. Reverse Linked List (LeetCode 206) - <https://leetcode.com/problems/reverse-linked-list/>
2. Middle of the Linked List (LeetCode 876) - <https://leetcode.com/problems/middle-of-the-linked-list/>
3. Merge Two Sorted Lists (LeetCode 21) - <https://leetcode.com/problems/merge-two-sorted-lists/>
4. Remove Nth Node from End (LeetCode 19) - <https://leetcode.com/problems/remove-nth-node-from-end-of-list/>
5. Linked List Cycle (LeetCode 141) - <https://leetcode.com/problems/linked-list-cycle/>

## ## Day 4 – Linked List Advanced

1. Intersection of Two Linked Lists (LeetCode 160) - <https://leetcode.com/problems/intersection-of-two-linked-lists/>
2. Palindrome Linked List (LeetCode 234) - <https://leetcode.com/problems/palindrome-linked-list/>
3. Rotate List (LeetCode 61) - <https://leetcode.com/problems/rotate-list/>
4. Add Two Numbers (LeetCode 2) - <https://leetcode.com/problems/add-two-numbers/>
5. Copy List with Random Pointer (LeetCode 138) - <https://leetcode.com/problems/copy-list-with-random-pointer/>

## ## Day 5 – Stack Basics

1. Valid Parentheses (LeetCode 20) - <https://leetcode.com/problems/valid-parentheses/>
2. Next Greater Element I (LeetCode 496) - <https://leetcode.com/problems/next-greater-element-i/>
3. Min Stack (LeetCode 155) - <https://leetcode.com/problems/min-stack/>

4. Implement Stack using Queues (LeetCode 225) - <https://leetcode.com/problems/implement-stack-using-queues/>
5. Implement Queue using Stacks (LeetCode 232) - <https://leetcode.com/problems/implement-queue-using-stacks/>

## **## Day 6 – Stack Advanced (Monotonic Stack)**

1. Daily Temperatures (LeetCode 739) - <https://leetcode.com/problems/daily-temperatures/>
2. Largest Rectangle in Histogram (LeetCode 84) - <https://leetcode.com/problems/largest-rectangle-in-histogram/>
3. Maximal Rectangle (LeetCode 85) - <https://leetcode.com/problems/maximal-rectangle/>
4. Stock Span Problem (GFG) - <https://www.geeksforgeeks.org/problems/stock-span-problem-1587115621/1>
5. Evaluate Reverse Polish Notation (LeetCode 150) - <https://leetcode.com/problems/evaluate-reverse-polish-notation/>

## **## Day 7 – Mixed Contest Simulation**

1. Palindrome Linked List (LeetCode 234) - <https://leetcode.com/problems/palindrome-linked-list/>
2. Next Greater Element I (LeetCode 496) - <https://leetcode.com/problems/next-greater-element-i/>
3. Trapping Rain Water (LeetCode 42) - <https://leetcode.com/problems/trapping-rain-water/>
4. Add Two Numbers (LeetCode 2) - <https://leetcode.com/problems/add-two-numbers/>
5. Sliding Window Maximum (LeetCode 239) - <https://leetcode.com/problems/sliding-window-maximum/>