45-Day LeetCode Practice Plan for Java DSA

Days 1–4

Setup & Java Basics (no LeetCode)

Days 5–6

Arrays & Basic Sorting/Search:
• Two Sum (1)
• Merge Sorted Array (88)
• Search Insert Position (35)

Days 7–8

Linked List:
• Reverse Linked List (206)
• Merge Two Sorted Lists (21)
• Remove Duplicates (83)

Days 9–10

Stack & Queue:
• Valid Parentheses (20)
• Queue via Stacks (232)
• Stack via Queues (225)

Day 11

Hash Table:
• Two Sum (1)
• Contains Duplicate (217)
• Ransom Note (383)

Days 12–13

Trees & BST:
• Inorder Traversal (94)
• Same Tree (100)
• Validate BST (98)

Day 14

Heap / Priority Queue:
• Kth Largest in Stream (703)
• Kth Largest in Array (215)
• Median from Data Stream (295)

Days 15–17

Sorting Algorithms:
• Sort an Array (912)
• Non-overlapping Sub-arrays (1477)
• Assign Cookies (455)

Day 18

Binary Search:
• Binary Search (704)
• Search Rotated Array (33)
• Search 2D Matrix (74)

Days 19–20

Recursion & Memoization:
• Fibonacci (509)
• Climbing Stairs (70)
• Integer Break (343)

Days 21–23

Backtracking:
• Permutations (46, 47)
• Combinations (77)
• Subsets (78)
• N-Queens (51)

Days 24–26

Dynamic Programming:
• House Robber (198)
• Coin Change (322)
• LCS (1143)
• Maximum Subarray (53)

Days 27–28

Greedy Algorithms:
• Non-overlapping Intervals (435)
• Burst Balloons (452)
• Jump Game II (45)

Days 29–30

Graph Basics:
• Number of Islands (200)
• Clone Graph (133)
• The Maze (490)

Days 31–34

Advanced Graph:
• Cheapest Flights (787)

- Network Delay (743)
- Course Schedule (207)
- Minimum Spanning (1135)

Days 35–40

Mixed Practice:
- Palindrome Linked List (234)
- Increasing Subsequence (674)
- Palindromic Substrings (647)
- Remove Duplicates II (82)

Days 41–45

Review & System Design:
- Re-solve top 5 problems
- Design LRU Cache/Rate Limiter
- STAR Behavioral Prep