

# 45-Day Java DSA Plan to Crack FAANG

Day 1: Setup Java Environment & IDE  
Day 2: Java Basics - Variables, Data Types, Operators  
Day 3: Control Flow - if, switch, loops  
Day 4: OOP Concepts - Classes, Objects, Methods  
Day 5: Arrays - 1D & 2D Operations  
Day 6: Array Problems - Searching & Sorting Basics  
Day 7: Linked List - Implementation & Traversal  
Day 8: Linked List - Insertion & Deletion  
Day 9: Stack & Queue - Concepts & Java Collections  
Day 10: Stack & Queue - Problem Solving  
Day 11: HashMap & HashSet - Implementation & Use Cases  
Day 12: Trees - Binary Tree Basics & Traversals  
Day 13: Binary Search Tree - Operations  
Day 14: Heap & Priority Queue - Implementation  
Day 15: Sorting Algorithms - Bubble, Selection, Insertion  
Day 16: Sorting Algorithms - Merge & Quick Sort  
Day 17: Heap Sort & Counting Sort  
Day 18: Binary Search - Concept & Applications  
Day 19: Recursion Basics & Practice  
Day 20: Advanced Recursion & Memoization  
Day 21: Backtracking - Introduction & Permutation Generation  
Day 22: Backtracking - Combination Generation  
Day 23: Backtracking - Subsets & N-Queens  
Day 24: Dynamic Programming - Fundamentals & Memoization  
Day 25: Dynamic Programming - Tabulation Techniques  
Day 26: DP Practice - Classic Problems (Knapsack, LCS)  
Day 27: Greedy Algorithms - Concepts & Problems  
Day 28: Greedy Algorithms - Advanced Practice  
Day 29: Graph Basics - Representation & BFS  
Day 30: Graph Algorithms - DFS & Applications  
Day 31: Shortest Paths - Dijkstra Algorithm  
Day 32: Shortest Paths - Bellman-Ford & SPFA  
Day 33: Minimum Spanning Trees - Kruskal & Prim  
Day 34: Advanced Graph - Topological Sort & Applications  
Day 35: Additional Practice - Mixed Topics  
Day 36: Mock Interview - Easy Problems  
Day 37: Mock Interview - Medium Problems  
Day 38: Mock Interview - Hard Problems  
Day 39: Timed Contest Practice  
Day 40: Review Common Interview Patterns  
Day 41: System Design Basics & Scalability Concepts  
Day 42: Review & Optimize Previous Solutions  
Day 43: Behavioral Interview Preparation & Mock  
Day 44: Full-Length Mock Interview Simulation  
Day 45: Final Revision & Strategy Recap