Interview Camp - 5 days/week Study Schedule

Go Through Pre Course Material

Week 1

Arrays and Strings I Traverse Array in Reverse Traverse from Both Ends Dutch National Flag Subarray Sum Problems	**Binary Search** Implementation With Duplicates Record & Move On Special Tricks	**Recursion and Backtracking** Memoization Auxiliary Buffers	**Recursion and Backtracking** Backtracking Problems	**Linked List** Implementation Append Function Deleting Nodes Slow & Fast Pointer Linked Hash Table

Weekly System Design - Do anytime during the week

Week 2

Stack Intro Stacks as Restriction Stack with Max Expression Evaluation	**Queue** Intro Sliding Window Queue with Max	**Dynamic Programming** DP Myths Intro and Approach	**Arrays and Strings II** Max Diff 2D Arrays	**Arrays and Strings II** Add/Multiply Special Tricks

Weekly System Design - Do anytime during the week

Week 3

Hash Table & Hash Functions Implementation Hash Functions String Search	**Graphs I** Basics Depth First Search Breadth First Search	**Graphs I** Topological Sort **Line Sweep** Intro Skyline Problem	**Heaps** Intro, Implementation **Selection Algorithm** Intro Implementation	**Sorting** Algorithms Intro Merge & Quick Sort Stability & Large Data Special Tricks

Weekly System Design - Do anytime during the week

Week 4

Bit Manipulation All Sections	**Graphs II** Detecting Cycles Bipartite Graph Connected Components	**Binary Tree** Traversals Top to Bottom Bottom to Top LCA Reconstruction	**Binary Search Tree** Implementation Record and Move On Successor LCA Building Balanced BST	**Trie** Intro Implementation **Majority Search** Search n/2 majority Search n/k majority

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