150 Days Master Roadmap to MAANG

Tips for the Roadmap

- Coding questions are from LeetCode and in order (Easy, Medium, Hard)
- Choose days and questions based on your time and availability.
- Every 6 days have coding questions.
- Every 7th day have one system design and one low-level design question.

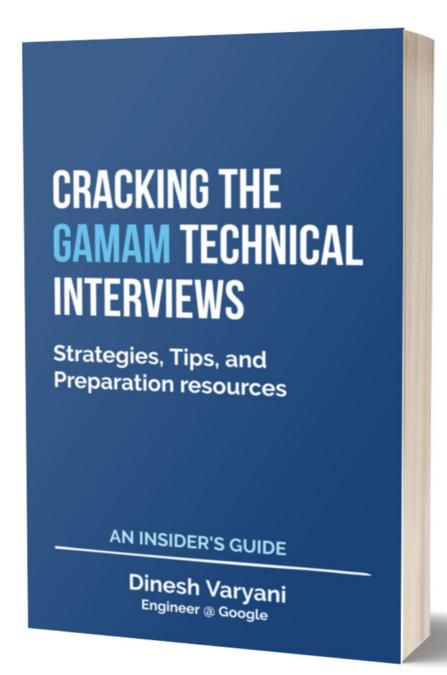
Tips for the Roadmap

- System design and Low-level design questions are taken from the resources -https://lnkd.in/dXywra2R and https://lnkd.in/d6yRpRvy
- Low-level design questions are taken from the resources https://lnkd.in/deuAXR-U
- Every 15th day is a revision day for things practiced in the previous 14 days.

Tips for the Roadmap

- The last section starting the 120th day has behavioral interview questions as well.
 You can refer https://bit.ly/3ULo3pg
- If you miss any question on a particular day, just carry it over to the next day.
- The idea is to be consistent for 150 days and not to solve all questions in a hurry.

How did I crack Google and Amazon?



Buy Now

- Two Sum
- Best Time to Buy and Sell Stock
- Majority Element
- Move Zeroes
- Squares of a Sorted Array
- Merge Sorted Array

- Remove Duplicates from Sorted Array
- Remove Duplicates from Sorted Array II
- Find All Numbers
 Disappeared in an Array
- Intersection of Two Arrays
- Intersection of Two Arrays II
- Maximum Population Year
- Find Pivot Index

- Running Sum of 1d Array
- Remove Element
- Find Winner on a Tic Tac Toe
 Game
- Build Array from Permutation
- Third Maximum Number
- Valid Mountain Array

- Find Common Characters
- Sum of All Odd Length
 Subarrays
- Range Sum Query -Immutable
- Shuffle the Array
- Max Consecutive Ones
- Sort Array By Parity

- Reverse Linked List
- Remove Linked List Elements
- Remove Duplicates from Sorted List
- Merge Two Sorted Lists
- Middle of the Linked List
- Palindrome Linked List

- Intersection of Two Linked Lists
- Linked List Cycle
- Valid Parentheses
- Implement Queue using Stacks
- Backspace String Compare
- Next Greater Element I

- Design a Rate Limiter (System Design)
- Design a Library
 Management System (OOD Design)

- Binary Tree Preorder
 Traversal
- Binary Tree Inorder
 Traversal
- Binary Tree Postorder
 Traversal
- Maximum Depth of Binary
 Tree
- Invert Binary Tree
- Symmetric Tree

- Subtree of Another
 Tree
- Diameter of Binary
 Tree
- Balanced Binary Tree
- Merge Two Binary
 Trees
- Same Tree

- Path Sum
- Binary Tree Paths
- Cousins in Binary Tree
- Convert Sorted Array to Binary Search Tree
- Range Sum of BST

- Valid Palindrome
- Valid Palindrome II
- Longest Palindrome
- Longest Common Prefix
- Valid Anagram
- First Unique Character in a String

- Is Subsequence
- Reverse String
- Reverse String II
- Reverse Words in a String III
- Isomorphic Strings
- Remove All Adjacent
 Duplicates In String

- Defanging an IP Address
- Reverse Only Letters
- Reverse Vowels of a String
- Length of Last Word
- Add Strings
- Fizz Buzz

- Design Consistent Hashing (System Design)
- Design a Parking Lot (OOD Design)

 Revise the questions solved from day 1 to 14.

- Roman to Integer
- Palindrome Number
- Happy Number
- Power of Two
- Sqrt(x)
- Plus One

- Count Odd Numbers in an Interval Range
- Rectangle Overlap
- Add Digits
- Maximum Product of Three Numbers
- Excel Sheet Column
 Number

- Add Binary
- Counting Bits
- Number of 1 Bits
- Single Number
- Missing Number
- Reverse Bits
- Hamming Distance

- Binary Search
- Search Insert Position
- First Bad Version
- Valid Perfect Square
- Kth Missing Positive
 Number
- Kth Largest Element in a Stream

- Design HashMap
- Ransom Note
- Contains Duplicate
- Contains Duplicate II
- Jewels and Stones
- Unique Number of Occurrences

- Word Pattern
- Number of Good Pairs
- Flood Fill
- Island Perimeter
- Find if Path Exists in Graph

- Design A Key-value Store (System Design)
- Design Amazon Online Shopping System (OOD Design)

- Fibonacci Number
- Min Cost Climbing Stairs
- Climbing Stairs
- Pascal's Triangle
- Can Place Flowers
- Maximum Units on a Truck

- 3Sum
- 3Sum Closest
- Non-decreasing Array
- Product of Array Except
 Self

- Merge Intervals
- Insert Interval
- Non-overlapping Intervals
- Interval List
 Intersections

- Container With Most Water
- Sort Colors
- Rotate Array
- Contiguous Array

- Subarray Sum Equals K
- Shortest Unsorted
 Continuous Subarray
- Maximum Points You
 Can Obtain from Cards
- Max Consecutive Ones
 III

- Permutation in String
- Wiggle Sort II
- Max Chunks To Make
 Sorted
- H-Index

- Design A Distributed
 Unique ID Generator
 (System Design)
- Design Stack Overflow (OOD Design)

 Revise the questions solved from day 15 to 29.

- Remove Nth Node From End of List
- Delete Node in a Linked List
- Remove Duplicates from Sorted List II
- Next Greater Node In Linked List

- Add Two Numbers
- Add Two Numbers II
- Copy List with Random Pointer
- Reverse Linked List II

- Swap Nodes in Pairs
- Odd Even Linked List
- Partition List

- Sort List
- Reorder List
- Rotate List

- Evaluate Reverse Polish Notation
- Min Stack
- Daily Temperatures
- Decode String

- Next Greater Element II
- Next Greater Element III
- Minimum Remove to Make Valid Parentheses
- 132 Pattern

- Design A URL Shortener (System Design)
- Design a Movie Ticket Booking System (OOD Design)

- Asteroid Collision
- Basic Calculator II
- Remove K Digits
- Remove Duplicate
 Letters

- Remove All Adjacent
 Duplicates in String II
- Flatten Nested List
 Iterator
- Simplify Path
- Longest Absolute File
 Path

- Open the Lock
- Shortest Bridge
- LRU Cache

- Longest Substring
 Without Repeating
 Characters
- String to Integer (atoi)
- Find All Anagrams in a String
- Group Anagrams
- Pancake Sorting

- Longest Repeating
 Character Replacement
- Largest Number
- Number of Matching
 Subsequences
- Find the Index of the First Occurrence in a String

- Longest Substring with At Least K Repeating
 Characters
- Zigzag Conversion
- Reverse Words in a String
- String Compression
- Count and Say

- Design Pastebin
 (System Design)
- Design an ATM (OOD Design)

 Revise the questions solved from day 30 to 44.

- Binary Tree Level Order
 Traversal
- Binary Tree Zigzag Level
 Order Traversal
- Construct Binary Tree from Preorder and Inorder Traversal
- Lowest Common
 Ancestor of a Binary Tree

- Binary Tree Right Side
 View
- Populating Next Right
 Pointers in Each Node
- Populating Next Right
 Pointers in Each Node II
- Maximum Width of Binary Tree

- Path Sum II
- Path Sum III
- All Nodes Distance K in Binary Tree
- Flatten Binary Tree to Linked List

- Count Complete Tree
 Nodes
- Sum Root to Leaf
 Numbers
- Find Bottom Left Tree
 Value
- Distribute Coins in Binary Tree

- Delete Node in a BST
- Validate Binary Search
 Tree
- Kth Smallest Element in a BST
- Lowest Common
 Ancestor of a Binary
 Search Tree

- Convert Sorted List to Binary Search Tree
- Construct Binary Search
 Tree from Preorder
 Traversal
- Binary Search Tree
 Iterator
- Recover Binary Search
 Tree

- Design Instagram (System Design)
- Design an Airline
 Management System
 (OOD Design)

- Binary Tree Maximum
 Path Sum
- Step-By-Step Directions
 From a Binary Tree
 Node to Another
- Maximum Level Sum of a Binary Tree

- Trim a Binary Search
 Tree
- Balance a Binary Search
 Tree
- Serialize and Deserialize Binary Tree

- Search in Rotated
 Sorted Array
- Search in Rotated
 Sorted Array II
- Time Based Key-Value
 Store
- Find Minimum in Rotated Sorted Array

- Find First and Last
 Position of Element in
 Sorted Array
- Find the Duplicate
 Number
- Minimum Size Subarray
 Sum
- Single Element in a Sorted Array

- Find Peak Element
- Capacity To Ship
 Packages Within D

 Days
- Koko Eating Bananas
- Peak Index in a Mountain Array

- Search a 2D Matrix
- Search a 2D Matrix II
- Spiral Matrix
- Spiral Matrix II

- Design A Web Crawler (System Design)
- Design Blackjack and a Deck of Cards (OOD Design)

 Revise the questions solved from day 46 to 59.

- Valid Sudoku
- Rotate Image
- Set Matrix Zeroes
- Game of Life

- Diagonal Traverse
- Matrix Block Sum
- Battleships in a Board
- Snapshot Array

- Number of Islands
- 01 Matrix
- Clone Graph
- Rotting Oranges

- Course Schedule
- Course Schedule II
- Accounts Merge
- Word Search

- Minimum Height Trees
- Pacific Atlantic Water
 Flow
- Cheapest Flights Within K Stops
- Max Area of Island

- Evaluate Division
- Number of Provinces
- Surrounded Regions
- Network Delay Time

- Design A Notification
 System (System Design)
- Design a Hotel
 Management System
 (OOD Design)

- All Paths From Source to Target
- Redundant Connection
- Shortest Path in Binary
 Matrix
- Number of Operations to Make Network
 Connected

- Majority Element II
- Longest Consecutive
 Sequence
- Insert Delete
 GetRandom O(1)
- Find All Duplicates in an Array

- Continuous Subarray
 Sum
- Find and Replace
 Pattern
- K-diff Pairs in an Array
- Custom Sort String

- Fraction to Recurring
 Decimal
- Fruit Into Baskets
- Encode and Decode TinyURL
- Minimum Area Rectangle

- Maximum Subarray
- Maximum Product
 Subarray
- Coin Change
- Coin Change II

- Jump Game
- Jump Game II
- Jump Game III
- Partition Equal Subset
 Sum

- Design A News Feed
 System (System Design)
- Design a Restaurant Management system (OOD Design)

 Revise the questions solved from day 61 to 74.

- Longest Increasing
 Subsequence
- Unique Paths
- Unique Paths II
- Maximal Square

- House Robber
- House Robber II
- House Robber III
- Decode Ways

- Best Time to Buy and Sell Stock II
- Minimum Path Sum
- Longest Common
 Subsequence
- Palindrome Partitioning

- Unique Binary Search
 Trees
- Unique Binary Search
 Trees II
- Target Sum
- Triangle

- Longest Palindromic
 Subsequence
- Partition to K Equal Sum Subsets
- Delete and Earn
- Palindromic Substrings

- Longest String Chain
- Minimum Cost For Tickets
- Delete Operation for Two Strings
- Perfect Squares

- Design A Chat System (System Design)
- Design Chess (OOD Design)

- Different Ways to Add Parentheses
- Longest Palindromic
 Substring
- Largest Divisible Subset
- Integer Break

- Matchsticks to Square
- Knight Dialer
- Minesweeper

- Random Pick with Weight
- Pow(x, n)
- Reverse Integer
- Multiply Strings

- Count Primes
- Integer to Roman
- Robot Bounded In Circle
- Angle Between Hands of a Clock

- K Closest Points to Origin
- Task Scheduler
- Top K Frequent
 Elements
- Find K Closest Elements

- Kth Largest Element in an Array
- Kth Smallest Element in a Sorted Matrix
- Top K Frequent Words
- Reorganize String

- Design A Search
 Autocomplete System
 (System Design)
- Design an Online Stock
 Brokerage System
 (OOD Design)

 Revise the questions solved from day 76 to 89.

- Sort Characters By Frequency
- Car Pooling
- Find K Pairs with
 Smallest Sums
- Maximum Number of Events That Can Be Attended

- Implement Trie (Prefix Tree)
- Word Break
- Design Add and Search
 Words Data Structure
- Search SuggestionsSystem
- Remove Sub-Folders from the Filesystem

- Permutations
- Permutations II
- Subsets
- Subsets II

- Next Permutation
- Combinations
- Letter Combinations of a Phone Number
- Generate Parentheses

- Combination Sum
- Combination Sum III
- Combination Sum IV
- Restore IP Addresses

- Gas Station
- Partition Labels
- Valid Parenthesis String
- Minimum Number of Arrows to Burst Balloons

- Design YouTube
 (System Design)
- Design a Car Rental
 System (OOD Design)

- Single Number II
- Single Number III
- Maximum XOR of Two Numbers in an Array
- Divide Two Integers

- Sum of Two Integers
- Bitwise AND of Numbers Range
- Gray Code

- Sliding Window
 Maximum
- Trapping Rain Water
- Count of Smaller
 Numbers After Self

- Candy
- Reverse Pairs
- Subarrays with K
 Different Integers
- Number of Submatrices
 That Sum to Target

- Shortest Subarray with Sum at Least K
- Maximum Gap
- First Missing Positive

- Shuffle an Array
- Reverse Nodes in k-Group
- LFU Cache

- Design Google Drive (System Design)
- Design LinkedIn (OOD Design)

 Revise the questions solved from day 91 to 104.

- Basic Calculator
- Largest Rectangle in Histogram
- Longest Valid
 Parentheses

- Maximum Frequency
 Stack
- The Skyline Problem
- Minimum Window
 Substring

- Palindrome Pairs
- Shortest Palindrome
- Text Justification

- Nth Digit
- Integer to English
 Words
- Max Points on a Line

- Maximum Profit in Job Scheduling
- Median of Two Sorted Arrays
- Find Minimum in Rotated Sorted Array II

- Word Ladder
- Word Ladder II
- Longest Increasing Path in a Matrix

- Design Twitter (System Design)
- Design Facebook a social network (System Design, OOD Design)

- Word Search II
- Bus Routes
- Critical Connections in a Network

- Shortest Path in a Grid with Obstacles
 Elimination
- Reconstruct Itinerary
- Making A Large Island

- Merge k Sorted Lists
- Find Median from Data
 Stream
- Smallest Range
 Covering Elements from
 K Lists

- Minimum Number of Refueling Stops
- Swim in Rising Water
- Longest Duplicate
 Substring

- N-Queens
- Permutation Sequence
- Sudoku Solver
- Palindrome Partitioning
 II

- K-th Symbol in Grammar
- Remove Invalid
 Parentheses
- Unique Paths III

- Proximity Service
 (System Design)
- Design Cricinfo (OOD Design)

 Revise the questions solved from day 106 to 119.

- What are your strengths and weaknesses?
- Tell me about your most challenging customer. How did you resolve their issues and make them satisfied?
- Describe a time when you had to make a decision without having all the data or information you needed.

- Which {company's}
 leadership principle
 resonates with you most?
- Tell me about a time when you were working on a project, and you realized that you needed to make changes to what you were doing. How did you feel about the work you had already completed?

- Nearby Friends (System Design)
- Google Maps (System Design)

- Edit Distance
- Regular Expression
 Matching
- Maximal Rectangle

- Can you give me an example of a time when you exceeded expectations?
- Can you describe a time when you took the lead on a project?
- Think about a time you received negative feedback. How did you deal with that?

- Tell me about a time when you had to deal with ambiguity. How did you overcome the ambiguity to reach a positive outcome?
- Have you been stressed over a certain project delivery in the past? Did it affect your work-life balance? How did you deal with it?

- Distributed Message
 Queue (System Design)
- Distributed Email
 Service (System Design)

- Split Array Largest Sum
- Burst Balloons
- Wildcard Matching

- Tell me about a time you have disagreed with your manager and how you handled it.
- How do you motivate others?
 Can you give me an example of a time you have motivated someone?
- Tell me about a time when you took a risk and failed.
 What did you learn from that experience?

- What obstacles have you encountered in your career? How did you overcome them?
- Tell me about a project you are proud of. How did you ensure high standards were met in delivering that project?

- S3-like Object Storage (System Design)
- Real-time Gaming Leaderboard (System Design)

- Best Time to Buy and Sell Stock IV
- Word Break II
- Russian Doll Envelopes
- Validate StackSequences

- Why do you want to work for {company}?
- Tell me about a time when you have had to work to earn someone's trust.
- Describe a time when you were given a project to work on, but your responsibilities were unclear. What did you do?

- Tell me about a time you showed initiative.
- You see a co-worker struggling with a task.
 What do you do?

- Payment System
 (System Design)
- Digital Wallet (System Design)

- Minimum Insertion
 Steps to Make a String
 Palindrome
- Minimum Cost to Cut a Stick
- Minimum Number of Taps to Open to Water a Garden
- Binary Tree Cameras



- Describe for me a time when you had to choose short-term sacrifices to achieve long-term gains.
- How do you deal with having to provide feedback to someone?
- Tell me about a time you failed to meet a deadline.
 How did you cope with that?

- Has there been a time when your contribution was overlooked and somebody else from your team took credit for it? How did you deal with it?
- Tell me about a project you are proud of. How did you ensure high standards were met in delivering that project?

 Have you been in a conflict with a fellow coworker?
 How did you deal with it and what was the end result?

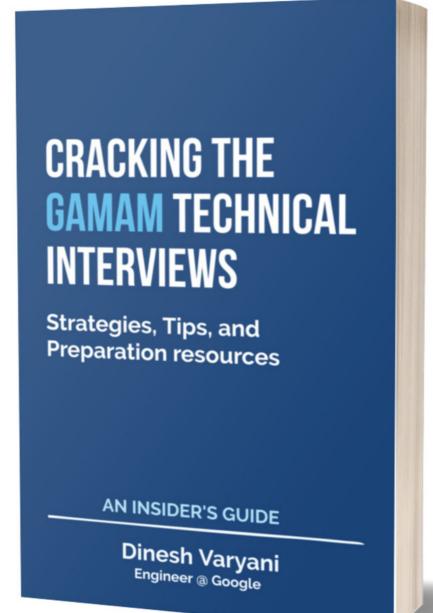
- Design Uber backend (System Design)
- Design Ticketmaster
 (System Design, OOD Design)

 Revise the questions solved from day 121 to 134.

DAY 136 - 150

 Revise the questions solved from day 1 to 134.

How did I crack Google and Amazon?



Buy Now

THANK YOU !!! For more such content follow @Dinesh Varyani