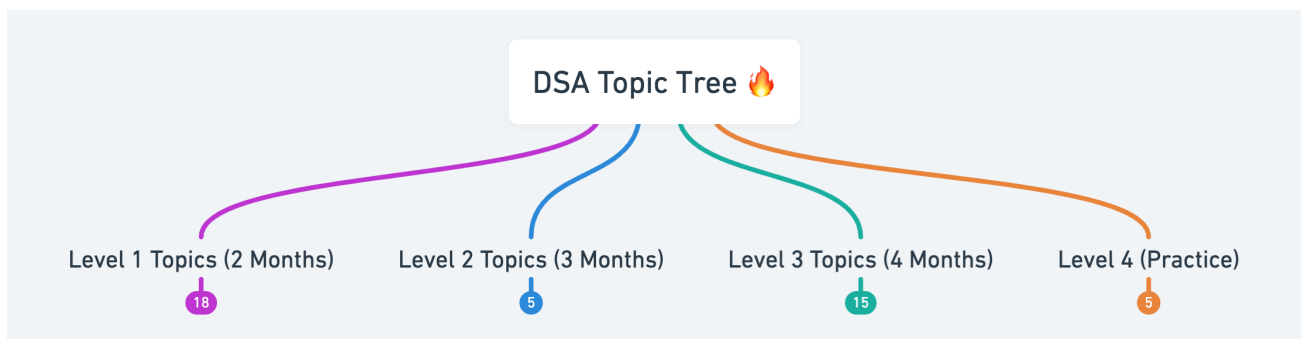# DSA TopicTree

This topic tree and roadmap is prepared by [Abhinav Awasthi](#)

For 1:1 Guidance and Mentorship for DSA and Interview Preparation, [Book a Meeting](#) Now
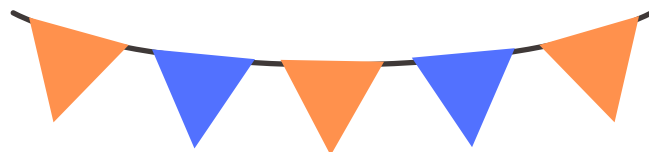

DSA Topic Tree 🔥

Level 1 Topics (2 Months) — 18
Level 2 Topics (3 Months) — 5
Level 3 Topics (4 Months) — 15
Level 4 (Practice) — 5

Divided the complete DSA into 4 Different levels
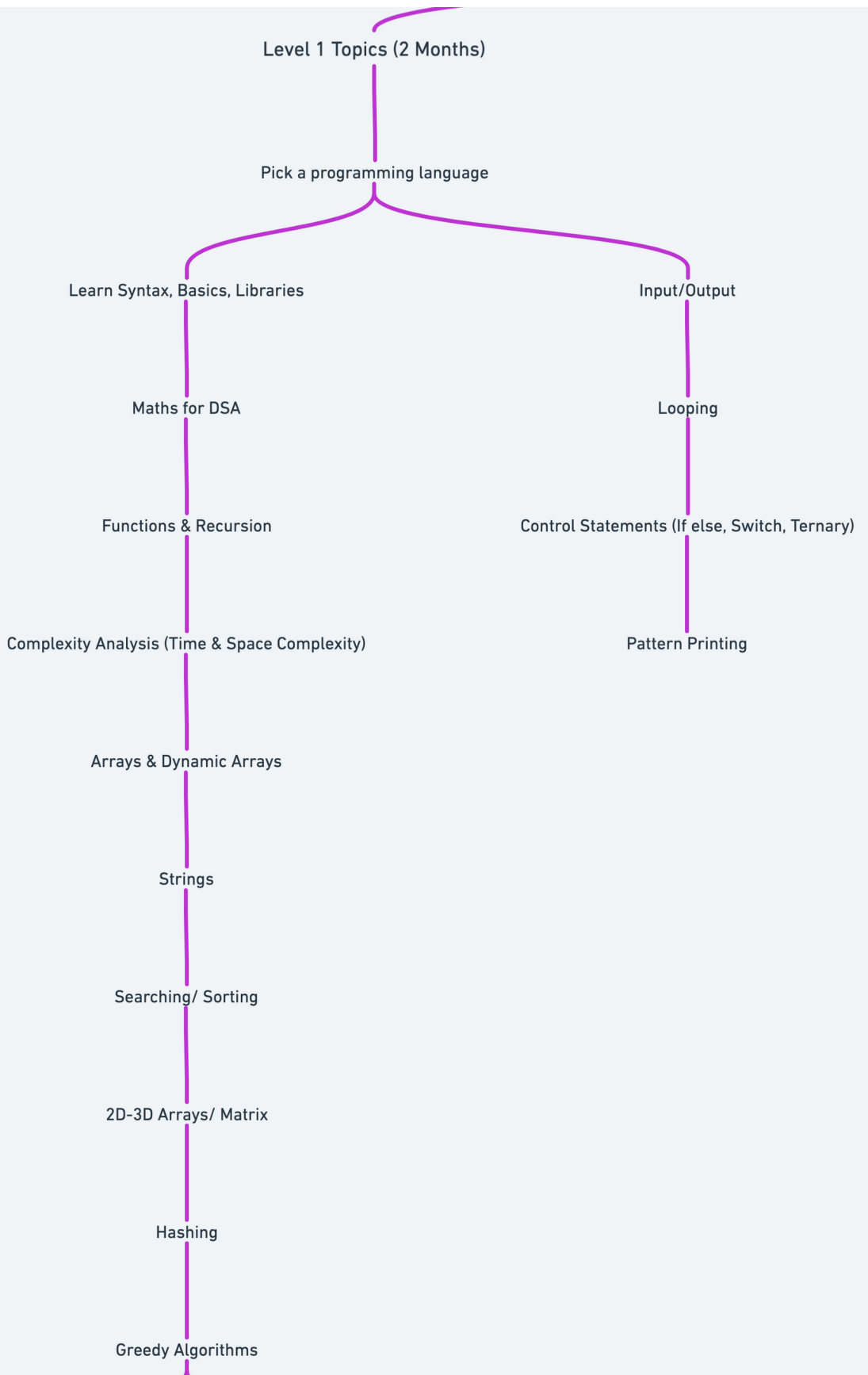
Access the complete topic tree [here](#)

Level 1 With Basic Topics, Level 2 With Intermediate, and Level 3 With Advanced Topics.

Level 4 is all about practice, the more you will practice, more you will be close to your dream company

Level 1 Topics (2 Months)

Click here for interview preparation & tips

Level 1 Topics (2 Months)

Pick a programming language

Learn Syntax, Basics, Libraries

Input/Output

Maths for DSA

Looping

Functions & Recursion

Control Statements (If else, Switch, Ternary)

Complexity Analysis (Time & Space Complexity)

Pattern Printing

Arrays & Dynamic Arrays

Strings

Searching/ Sorting

2D-3D Arrays/ Matrix

Hashing

Greedy Algorithms

2 Pointers
Sliding Window
Kadane's Algo

Subarray/ Subsequence Problems

Bit Manipulation

Level 2 Topics (3 Months)

Click here for a 1:1 Meeting with Abhinav on DSA Roadmap

Level 2 Topics (3 Months)

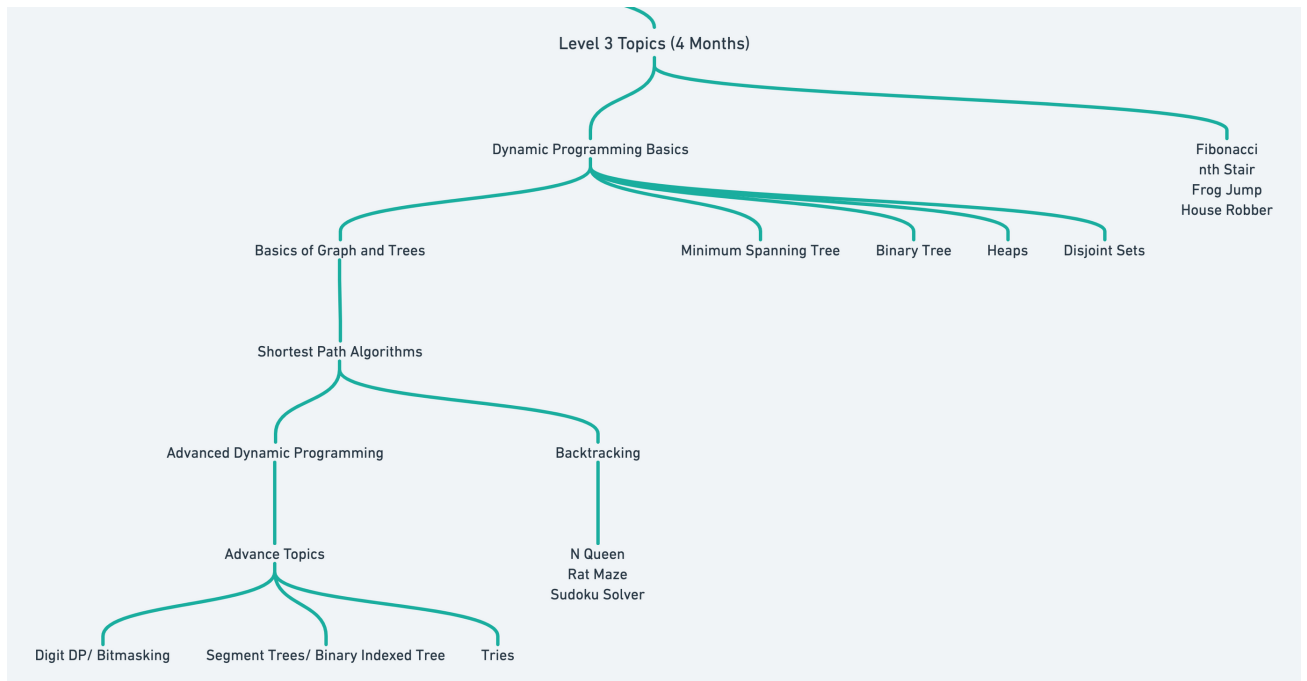## Practice Level 1

Linked List

Stack/ Queues

Deque/ Priority Queues

Mixed Algorithms
Complex/ Standard Problems
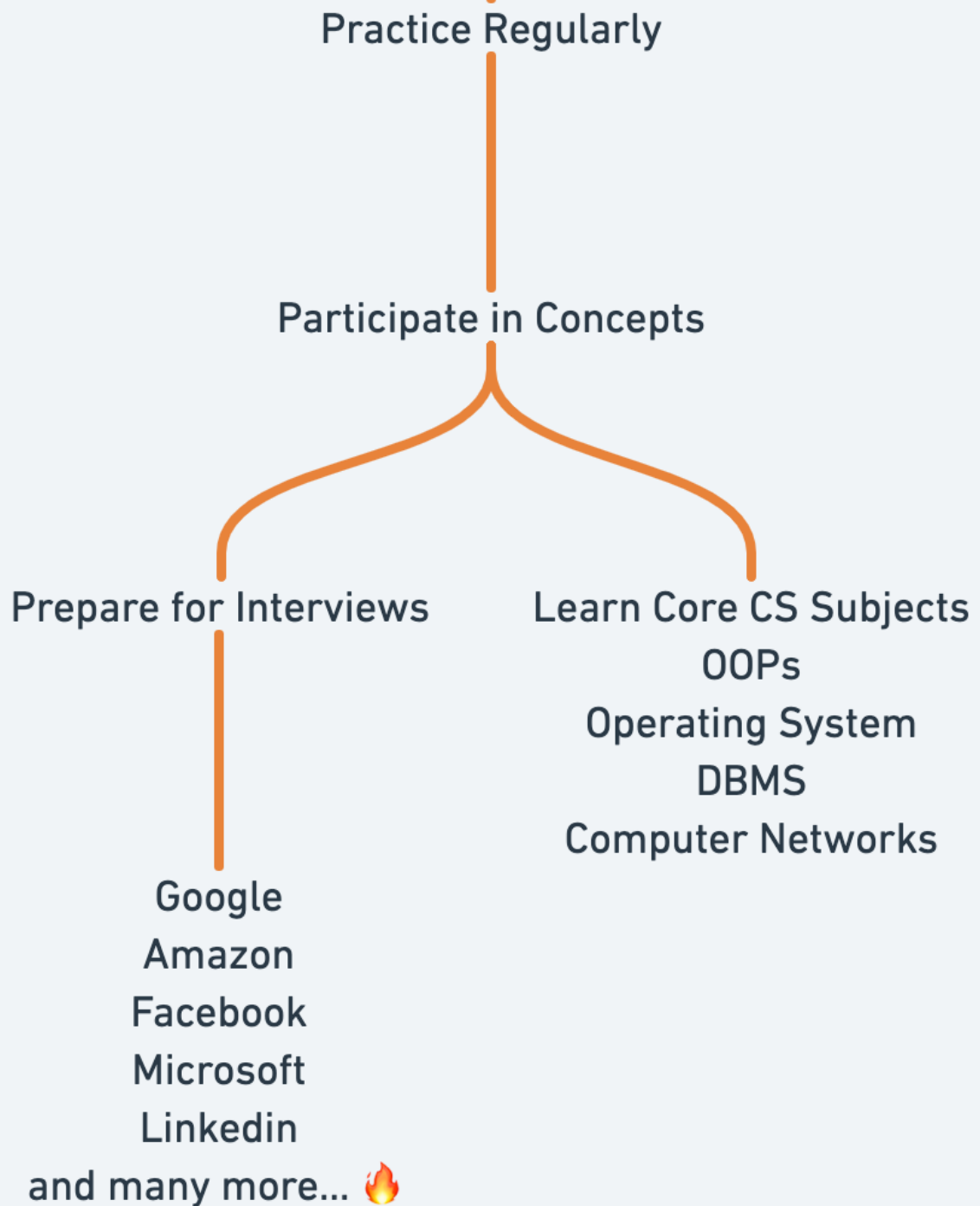# Problems asked in Interviews

Level 3 Topics (4 Months)

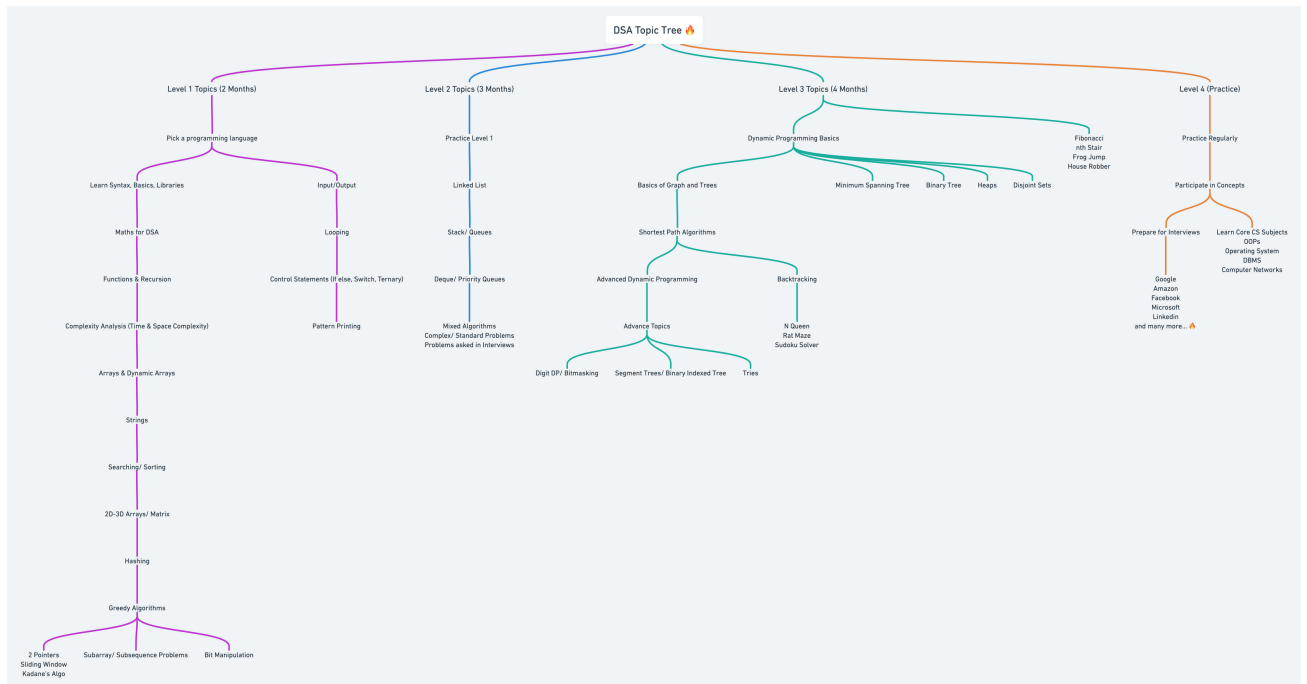Now you are ready to appear for interviews, schedule a mock interview here

Level 3 Topics (4 Months)
- Dynamic Programming Basics
  - Basics of Graph and Trees
    - Shortest Path Algorithms
      - Advanced Dynamic Programming
        - Advance Topics
          - Digit DP/ Bitmasking
          - Segment Trees/ Binary Indexed Tree
          - Tries
      - Backtracking
        - N Queen
          Rat Maze
          Sudoku Solver
  - Minimum Spanning Tree
  - Binary Tree
  - Heaps
  - Disjoint Sets
- Fibonacci
  nth Stair
  Frog Jump
  House Robber

Level 4 (Practice)

This is the level and you have practice, practice, and practice till you crack your dream company

Level 4 (Practice)

Practice Regularly

Participate in Concepts

Prepare for Interviews

Learn Core CS Subjects
OOPs
Operating System
DBMS
Computer Networks

Google
Amazon
Facebook
Microsoft
Linkedin
and many more... 🔥

Congratulations, You have completed DSA!

Here's the complete tree

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