Google Interview Preparation Topics

Arrays and Strings

- Longest Substring Without Repeating Characters (#3, Medium)
- Container With Most Water (#11, Medium)
- 3Sum (#15, Medium)
- Next Permutation (#31, Medium)
- Multiply Strings (#43, Medium)
- Rotate Image (#48, Medium)
- Jump Game (#55, Medium)
- Plus One (#66, Easy)
- Minimum Window Substring (#76, Hard)
- Read N Characters Given Read4 II - Call multiple times
- Longest Substring with At Most Two Distinct Characters
- Missing Ranges
- Next Closest Time
- Expressive Words
- Find And Replace in String
- Maximize Distance to Closest Person
- Valid Parentheses (#20, Easy)
- Merge k Sorted Lists (#23, Hard)
- Trapping Rain Water (#42, Hard)
- Kth Largest Element in an Array (#215, Medium)
- Meeting Rooms II (#253, Medium)
- Backspace String Compare (#844, Easy)
- Minimum Cost to Hire K Workers (#857, Hard)
- K Closest Points to Origin (#973, Medium)

Linked Lists

- Add Two Numbers (#2, Medium)
- Remove Nth Node From End of List (#19, Medium)
- Merge Two Sorted Lists (#21, Easy)
- Copy List with Random Pointer (#138, Medium)

Trees and Graphs

- Binary Tree Maximum Path Sum (#124, Hard)
- Word Ladder (#127, Hard)
- Number of Islands (#200, Medium)
- Course Schedule II (#210, Medium)
- Count Complete Tree Nodes
- Longest Increasing Path in a Matrix
- Decode String (#394, Medium)
- Evaluate Division (#399, Medium)
- Diameter of Binary Tree (#543, Easy)
- Cracking the Safe
- Robot Room Cleaner
- Most Stones Removed with Same Row or Column
- Flip Equivalent Binary Trees

Recursion

- Word Squares
- Strobogrammatic Number II
- Word Search II
- Android Unlock Patterns
- Letter Combinations of a Phone Number
- Generate Parentheses (#22, Medium)

Sorting and Searching

- Median of Two Sorted Arrays (#4, Hard)
- Find First and Last Position of Element in Sorted Array (#34, Medium)
- Merge Intervals (#56, Medium)
- Insert Interval (#57, Medium)
- Valid Anagram (#242, Easy)
- Count of Smaller Numbers After Self
- Peak Index in a Mountain Array

Dynamic Programming

- Longest Palindromic Substring (#5, Medium)
- Maximum Subarray (#53, Medium)
- Best Time to Buy and Sell Stock (#121, Easy)
- Maximum Product Subarray (#152, Medium)
- Coin Change (#322, Medium)
- Split Array Largest Sum

Design

- LRU Cache (#146, Medium)
- Min Stack (#155, Medium)
- Serialize and Deserialize Binary Tree
- Logger Rate Limiter
- Insert Delete GetRandom O(1) (#380, Medium)
- Design Search Autocomplete System

Others

- Reverse Integer (#7, Medium)
- Candy (#135, Hard)
- Isomorphic Strings (#205, Easy)
- Strobogrammatic Number
- Bulls and Cows
- Range Sum Query 2D - Mutable
- My Calendar II
- Jewels and Stones (#771, Easy)

- Swap Adjacent in LR String

- Guess the Word

- Minimum Area Rectangle