◀ Back to Explore

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Get Well Prepared for

Google Interview

Overview
Google tech interviews are notoriously difficult and quite challenging. To ge...

Interview Process
You may receive an online assessment link as your first step of interview proces...

Arrays and Strings
String manipulation problems are in the same category as arrays, because...

Linked Lists
According to our user survey data, Linked List problems are not asked frequen...

Trees and Graphs
Tree is just a special case of graph. To understand the difference between...

Recursion
Recursion usually involves some kind of backtracking to enumerate all possi...

Sorting and Searching
Interval related problems are quite often asked at Google interviews. Similar...

Dynamic Programming
It can be tricky to identify the subproblems and connect them, which is essenti...

Design
Google loves to ask lots of question variations based on the Iterator pat...

Others
Here are other type of problems you may encounter in a Google interview, su...

💬 Discuss
26 topics - share ideas and ask questions about this card

Introduction

Google tech interviews are notoriously difficult and quite challenging. To get a phone screen, you will need to submit your resume to their online application system or via an internal referral from a Googler.

Assuming you passed their resume screen, a recruiter will reach out to you. Usually there will be two phone screens, and if you do well, you'll be invited to onsite interviews.

Since Google operates at a large scale, be prepared to answer lots of follow up questions on how to scale the algorithm you wrote for multiple machines. Some examples are: Number of Islands and Intersection of Two Arrays II.

Interview Process

☑ Unique Email Addresses	☐ Odd Even Jump
☐ License Key Formatting	☐ Fruit Into Baskets
☐ Ⓐ Google Phone Interview	☐ Ⓐ Google Onsite Interview
☐ Ⓐ Google Hiring Committee	☐ Ⓐ Google Offer Review

Arrays and Strings

☑ Longest Substring Without Repe…	☐ Container With Most Water
☐ 3Sum	☐ Next Permutation
☐ Multiply Strings	☐ Rotate Image
☐ Jump Game	☐ Plus One
☐ Minimum Window Substring	☐ Read N Characters Given Read4… 🔓
☐ Longest Substring with At Most T… 🔓	☐ Missing Ranges 🔓
☐ Next Closest Time 🔓	☐ Expressive Words
☐ Find And Replace in String	☐ Maximize Distance to Closest Pe…
☐ Valid Parentheses	☐ Merge k Sorted Lists
☐ Trapping Rain Water	☐ Kth Largest Element in an Array

- [ ] Meeting Rooms II 🔓
- [ ] Minimum Cost to Hire K Workers
- [ ] Backspace String Compare
- [ ] K Closest Points to Origin

Linked Lists

- [ ] Add Two Numbers
- [ ] Merge Two Sorted Lists
- [ ] Remove Nth Node From End of …
- [ ] Copy List with Random Pointer

Trees and Graphs

- [ ] Binary Tree Maximum Path Sum
- [x] Word Ladder
- [ ] Number of Islands
- [ ] Course Schedule II
- [ ] Count Complete Tree Nodes
- [ ] Longest Increasing Path in a Matrix
- [ ] Decode String
- [ ] Evaluate Division
- [ ] Diameter of Binary Tree
- [ ] Cracking the Safe
- [ ] Robot Room Cleaner 🔓
- [ ] Most Stones Removed with Sam…
- [ ] Flip Equivalent Binary Trees

Recursion

- [ ] Word Squares 🔓
- [ ] Strobogrammatic Number II 🔓
- [ ] Word Search II
- [ ] Android Unlock Patterns 🔓
- [ ] Letter Combinations of a Phone …
- [ ] Generate Parentheses

Sorting and Searching

- [ ] Median of Two Sorted Arrays
- [ ] Find First and Last Position of El…
- [ ] Merge Intervals
- [ ] Insert Interval
- [ ] Valid Anagram
- [ ] Count of Smaller Numbers After …
- [ ] Peak Index in a Mountain Array

Dynamic Programming

- [ ] Longest Palindromic Substring
- [ ] Maximum Subarray
- [ ] Best Time to Buy and Sell Stock
- [ ] Maximum Product Subarray
- [ ] Coin Change
- [ ] Split Array Largest Sum

Design

- [ ] LRU Cache
- [ ] Min Stack

	Serialize and Deserialize Binary …			Logger Rate Limiter	🔓
☐	Insert Delete GetRandom O(1)	☐	Design Search Autocomplete Sy…	🔓

Others	◯

	Reverse Integer			Candy	
☐	Isomorphic Strings	☐	Strobogrammatic Number	🔓
☐	Bulls and Cows	☐	Range Sum Query 2D - Mutable	🔓
☐	My Calendar II	☐	Jewels and Stones	
☐	Swap Adjacent in LR String	☐	Guess the Word	
☐	Minimum Area Rectangle			