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Get Well Prepared for Google Interview

Overview

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.

✓ Interview Process

You may receive an online assessment link as your first step of interview process.

○ Arrays and Strings

String manipulation problems are in the same category as arrays, because in many cases, they are just different ways of looking at the same data.

✓ Linked Lists

According to our user survey data, Linked List problems are not asked frequently in Google interviews.

○ Trees and Graphs

Tree is just a special case of graph. To understand the difference between them, you need to know the difference between a tree and a graph.

✓ Recursion

Recursion usually involves some kind of backtracking to enumerate all possible solutions.

✓ Sorting and Searching

Interval related problems are quite often asked at Google interviews. Similar to the ones you can find in the LeetCode database.

✓ Dynamic Programming

It can be tricky to identify the subproblems and connect them, which is essential for solving dynamic programming problems.

✓ Design

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

○ Others

Here are other type of problems you may encounter in a Google interview, such as the ones in the LeetCode database.

Discuss

5 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](#).

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Interview Process



<input checked="" type="checkbox"/> Unique Email Addresses	<input checked="" type="checkbox"/> Odd Even Jump
<input checked="" type="checkbox"/> License Key Formatting	<input checked="" type="checkbox"/> Fruit Into Baskets
<input checked="" type="checkbox"/> Google Phone Interview	<input checked="" type="checkbox"/> Google Onsite Interview
<input checked="" type="checkbox"/> Google Hiring Committee	<input checked="" type="checkbox"/> Google Offer Review

Arrays and Strings



<input checked="" type="checkbox"/> Longest Substring Without Repeating ...	<input checked="" type="checkbox"/> Container With Most Water
<input checked="" type="checkbox"/> 3Sum	<input checked="" type="checkbox"/> Next Permutation
<input checked="" type="checkbox"/> Multiply Strings	<input checked="" type="checkbox"/> Rotate Image
<input checked="" type="checkbox"/> Jump Game	<input checked="" type="checkbox"/> Plus One
<input checked="" type="checkbox"/> Minimum Window Substring	<input checked="" type="checkbox"/> Read N Characters Given Read4 II - Call...
<input checked="" type="checkbox"/> Longest Substring with At Most Two Di...	<input checked="" type="checkbox"/> Missing Ranges
<input checked="" type="checkbox"/> Next Closest Time	<input checked="" type="checkbox"/> Expressive Words
<input checked="" type="checkbox"/> Find And Replace in String	<input checked="" type="checkbox"/> Maximize Distance to Closest Person
<input checked="" type="checkbox"/> Valid Parentheses	<input checked="" type="checkbox"/> Merge k Sorted Lists
<input checked="" type="checkbox"/> Trapping Rain Water	<input checked="" type="checkbox"/> Kth Largest Element in an Array
<input checked="" type="checkbox"/> Meeting Rooms II	<input checked="" type="checkbox"/> Backspace String Compare
<input type="checkbox"/> Minimum Cost to Hire K Workers	<input checked="" type="checkbox"/> K Closest Points to Origin

Linked Lists



<input checked="" type="checkbox"/> Add Two Numbers	<input checked="" type="checkbox"/> Remove Nth Node From End of List
<input checked="" type="checkbox"/> Merge Two Sorted Lists	<input checked="" type="checkbox"/> Copy List with Random Pointer

Trees and Graphs



<input checked="" type="checkbox"/> Binary Tree Maximum Path Sum	<input checked="" type="checkbox"/> Word Ladder
<input checked="" type="checkbox"/> Number of Islands	<input checked="" type="checkbox"/> Course Schedule II
<input checked="" type="checkbox"/> Count Complete Tree Nodes	<input checked="" type="checkbox"/> Longest Increasing Path in a Matrix
<input checked="" type="checkbox"/> Decode String	<input checked="" type="checkbox"/> Evaluate Division
<input checked="" type="checkbox"/> Diameter of Binary Tree	<input type="checkbox"/> Cracking the Safe
<input type="checkbox"/> Robot Room Cleaner	<input checked="" type="checkbox"/> Most Stones Removed with Same Row ...
<input checked="" type="checkbox"/> Flip Equivalent Binary Trees	

Recursion	
<input checked="" type="checkbox"/> Word Squares	<input checked="" type="checkbox"/> Strobogrammatic Number II
<input checked="" type="checkbox"/> Word Search II	<input checked="" type="checkbox"/> Android Unlock Patterns
<input checked="" type="checkbox"/> Letter Combinations of a Phone Number	<input checked="" type="checkbox"/> Generate Parentheses

Sorting and Searching	
<input checked="" type="checkbox"/> Median of Two Sorted Arrays	<input checked="" type="checkbox"/> Find First and Last Position of Element ...
<input checked="" type="checkbox"/> Merge Intervals	<input checked="" type="checkbox"/> Insert Interval
<input checked="" type="checkbox"/> Valid Anagram	<input checked="" type="checkbox"/> Count of Smaller Numbers After Self
<input checked="" type="checkbox"/> Peak Index in a Mountain Array	

Dynamic Programming	
<input checked="" type="checkbox"/> Longest Palindromic Substring	<input checked="" type="checkbox"/> Maximum Subarray
<input checked="" type="checkbox"/> Best Time to Buy and Sell Stock	<input checked="" type="checkbox"/> Maximum Product Subarray
<input checked="" type="checkbox"/> Coin Change	<input checked="" type="checkbox"/> Split Array Largest Sum

Design	
<input checked="" type="checkbox"/> LRU Cache	<input checked="" type="checkbox"/> Min Stack
<input checked="" type="checkbox"/> Serialize and Deserialize Binary Tree	<input checked="" type="checkbox"/> Logger Rate Limiter
<input checked="" type="checkbox"/> Insert Delete GetRandom O(1)	<input checked="" type="checkbox"/> Design Search Autocomplete System

Others	
<input checked="" type="checkbox"/> Reverse Integer	<input checked="" type="checkbox"/> Candy
<input checked="" type="checkbox"/> Isomorphic Strings	<input checked="" type="checkbox"/> Strobogrammatic Number
<input checked="" type="checkbox"/> Bulls and Cows	<input checked="" type="checkbox"/> Range Sum Query 2D - Mutable
<input checked="" type="checkbox"/> My Calendar II	<input checked="" type="checkbox"/> Jewels and Stones
<input checked="" type="checkbox"/> Swap Adjacent in LR String	<input type="checkbox"/> Guess the Word
<input checked="" type="checkbox"/> Minimum Area Rectangle	