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Get Well Prepared for
Google Interview

Overview

Google tech interviews are notoriously difficult and quite challenging. To

Interview Process

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

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 frequ

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 pos

Sorting and Searching

Interval related problems are quite often asked at Google interviews. Simila

Dynamic Programming

It can be tricky to identify the subproblems and connect them, which is essent

Design

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

Others

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

Discuss

24 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 Rep...

Container With Most Water

3Sum

Next Permutation

Multiply Strings

Rotate Image

Jump Game

Plus One

Minimum Window Substring

Read N Characters Given Read...



Longest Substring with At Most...

Missing Ranges



Next Closest Time

Expressive Words



Find And Replace in String

Maximize Distance to Closest P...

Valid Parentheses

Merge k Sorted Lists

Trapping Rain Water

Kth Largest Element in an Array

Meeting Rooms II

Backspace String Compare



Minimum Cost to Hire K Workers

K Closest Points to Origin

Linked Lists



Add Two Numbers

Remove Nth Node From End of ...

Merge Two Sorted Lists

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 M...
<input checked="" type="checkbox"/> Decode String	<input checked="" type="checkbox"/> Evaluate Division
<input checked="" type="checkbox"/> Diameter of Binary Tree	<input checked="" type="checkbox"/> Cracking the Safe
<input checked="" type="checkbox"/> Robot Room Cleaner	<input checked="" type="checkbox"/> Most Stones Removed with Sa...
<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...	<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 E...
<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 Afte...
<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...	<input checked="" type="checkbox"/> Logger Rate Limiter
<input checked="" type="checkbox"/> Insert Delete GetRandom O(1)	<input checked="" type="checkbox"/> Design Search Autocomplete S...

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 checked="" type="checkbox"/> Guess the Word
<input checked="" type="checkbox"/> Minimum Area Rectangle	