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Overview

Google tech interviews are notoriously difficult and quite challenging. To get a



Interview Process

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



Arrays and Strings

String manipulation problems are in the same category as arrays, because internally, a



Linked Lists

According to our user survey data, Linked List problems are not asked frequently at



Trees and Graphs

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



Recursion

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



Sorting and Searching

Interval related problems are quite often asked at Google interviews. Similar to "Arrays



Dynamic Programming

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



Design

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

Get Well Prepared for

Google Interview

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 (<https://leetcode.com/problems/number-of-islands>) and Intersection of Two Arrays II (<https://leetcode.com/problems/intersection-of-two-arrays-ii/description/>).

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



Others

Here are other type of problems you may encounter in a Google interview, such as Bit



Discuss

5 topics - share ideas and ask questions

(/discuss/explore/google)

<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 I...
<input checked="" type="checkbox"/> Longest Substring with At Most ...	<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 Pe...
<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 checked="" 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 ...
<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 Mat...
<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 Sam...
<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


☒  Letter Combinations of a Phone ...

☒  Generate Parentheses


Sorting and Searching




☒  Median of Two Sorted Arrays


☒  Find First and Last Position of Ele...

☒  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 T...


☒  Logger Rate Limiter 

☒  Insert Delete GetRandom O(1)


☒  Design Search Autocomplete Sys... 



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