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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. Assuming you passed their resume screen, a recruiter will reach out to you. Usually there will be two phone
0	Interview Process
	You may receive an online assessment link as your first step of interview process. The assessment will expire within 7 days and contains two coding questions to be completed within an hour. Below are some Online Assessment questions for you to practice. Near the end of this chapter we provide more details of the
0	Arrays and Strings  String manipulation problems are in the same category as arrays, because internally, a string is represented as an array of characters. Array problems usually
	do not require knowledge of advanced data structures, so just basic data structures such as Hash Tables and basic techniques like Two Pointers should
	Linked Lists
	According to our user survey data, Linked List problems are not asked frequently at Google. Perhaps, most linked list problems are not that complex and it is harder to ask follow up and complexity analysis questions Nonetheless, we strongly recommend you to still practice classic Linked List interview questions
	Trees and Graphs
	Tree is just a special case of graph. To understand the difference between trees and graphs, you can work on Graph Valid Tree. Graphs are generally breath-first search or depth-first search. The same applies to Trees, but trees never contain cycles. Graphs are generally more complex than trees. Similarly, trees
	Recursion  Recursion usually involves some kind of backtracking to enumerate all possibilities. Note that Recursion is a more general purpose algorithm. Depth-First
	search is a specific form of backtracking related to searching tree data structures. Therefore we categorize those problems in "Trees and Graphs", even
	Sorting and Searching
	Interval related problems are quite often asked at Google interviews. Similar to "Arrays and Strings", interval related problems can be asked in the context of data stream.
	Dynamic Programming
	It can be tricky to identify the subproblems and connect them, which is essential in solving Dynamic Programming problems. Dynamic programming is not that
	scary as you might think, and you can improve your dynamic programming skills by practicing a lot of these problems. According to our user survey, one of the
	Design  Coardo lavas to call late of guartiera passed on the Itaratay natture, as make aura you are familiar with the concent of itaratays and how itaratays unaily
	Google loves to ask lots of question variations based on the Iterator pattern, so make sure you are familiar with the concept of iterators and how iterators work in principle. A good way to learn is to read the open source code and try to code it yourself. For example, here is Google's guava implementation of Peeking
	Others
	Here are other type of problems you may encounter in a Google interview, such as Bit Manipulation.

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21 topics - share ideas and ask questions about this card

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## 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	
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☐ ☑ Odd Even Jump	
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☐ ☑ Fruit Into Baskets	
☐ A Google Phone Interview	
☐ A Google Onsite Interview	
☐ A Google Hiring Committee	
☐ A Google Offer Review	
Arrays and Strings	
Arrays and Strings  Longest Substring Without Repe	
✓	
✓ ☑ Longest Substring Without Repe  ✓ ☑ Container With Most Water	
✓ Dear Substring Without Repe  ✓ Dear Container With Most Water  Dear 3 Sum	
✓ Description   Longest Substring Without Repe  ✓ Description   Container With Most Water  Description   Next Permutation	

☐ ⓓ Plus One	
☐ Minimum Window Substring	
☐ ☐ Read N Characters Given Read	•
☐	<b>₽</b>
☐ ⓓ Missing Ranges	<b>₽</b>
☐ Mext Closest Time	₽
☐ ⓓ Expressive Words	
☐ ☐ Find And Replace in String	
☐ Maximize Distance to Closest P	
☐ ☑ Valid Parentheses	
☐ Merge k Sorted Lists	
☐ ⓓ Trapping Rain Water	
☐ 励 Kth Largest Element in an Array	
☐ Meeting Rooms II	<b>₽</b>
☐ ☐ Backspace String Compare	
☐ ⓓ Minimum Cost to Hire K Workers	
☐ M 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	
☐ ☐ Binary Tree Maximum Path Sum	
☐ ⓓ Word Ladder	
☐ Ӣ Number of Islands	

☐ ⓓ Course Schedule II	
☐ ☐ Count Complete Tree Nodes	
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☐ ☐ Decode String	
☐ ⓓ Evaluate Division	
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☐ ☑ Cracking the Safe	
☐ Ӣ Robot Room Cleaner	<b>₽</b>
☐ Most Stones Removed with Sam	
☐ ☐ Flip Equivalent Binary Trees	
Recursion	
☐ M Word Squares	<u>•</u>
☐	•
□ 働 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	
☐	
☐	
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	₽
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□ ⚠ Reverse Integer   □ ☒ Candy   □ ☒ Isomorphic Strings   □ ☒ Strobogrammatic Number   □ ☒ Bulls and Cows	
□ Image: Reverse Integer   □ Image:	
□ ⚠ Reverse Integer   □ ⚠ Candy   □ ⚠ Isomorphic Strings   □ ⚠ Strobogrammatic Number   □ ⚠ Bulls and Cows   □ ⚠ Range Sum Query 2D - Mutable   □ ☒ My Calendar II	
□ Image: Reverse Integer   □ Image: Description of the properties of the	

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