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Discuss(/discuss/)eetCele inhtips://leetcode.com/jobs/) Problems(/problemset/all/) Interview Contest o oconnections-in-a-(/) Explore(/explore/) network/) ◆ Back to Explore (/explore/) ☆ Favorite 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 **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 **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 breathfirst search or depth-first search. The same applies to Trees, but trees never contain cycles. Graphs are generally more complex than trees. Similarly, trees are 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, Design 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 Others Here are other type of problems you may encounter in a Google interview, such as Bit Manipulation.

https://leetcode.com/explore/interview/card/google/

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/).

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☐ ☑ Find And Replace in String	
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☐ ☑ Valid Parentheses	
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