

Hard Collection

Top Interview Questions



Overview

This is LeetCode's official curated list of Top classic interview questions to help you



Array and Strings

Array and String type of questions were asked in interviews frequently. You can find



Linked List

There are not a lot of difficult Linked List problems. However, these Linked List



Trees and Graphs

Tree is a special type of graphs, so the two usual techniques used to traverse a



Backtracking

Here are some of the best backtracking interview questions. We recommend



Sorting and Searching

These problems deal with sorting or searching in a sorted structure. We



Dynamic Programming

Here are some classic Dynamic Programming interview questions. We recommend



Design

These problems may require you to implement a given interface of a class



Math

Most of the math questions asked in interviews do not require math know



Others

Here are some other questions that do not fit in other categories. We recommend

Introduction



This is LeetCode's official curated list of Top classic interview questions to help you land your dream job. Our top interview questions are divided into the following series:

1. Easy Collection

2. Medium Collection

3. Hard Collection

to help you master Data Structure & Algorithms and improve your coding skills.

Just like any other skills, coding interview is one area where you can greatly improve with [deliberate practice](#).

Most of the classic interview questions have multiple solution approaches. For the best practice result, we strongly advise you to go through this list at least a second time, or even better - a *third time*.

By the second attempt, you may discover some new tricks or new methods. By the third time, you should find that your code appear to be more concise compared to your first attempt. If so, congratulations!

**Remember:** Deliberate practice does not mean looking for answers and memorizing it. You won't go very far with that approach. The more you are able to solve a problem yourself without any reference to answers, the more you will improve.

Array and Strings

<input checked="" type="checkbox"/> Product of Array Except Self	<input type="checkbox"/> Spiral Matrix
<input type="checkbox"/> 4Sum II	<input checked="" type="checkbox"/> Container With Most Water
<input type="checkbox"/> Game of Life	<input type="checkbox"/> First Missing Positive
<input type="checkbox"/> Longest Consecutive Sequence	<input type="checkbox"/> Find the Duplicate Number
<input type="checkbox"/> Longest Substring with At Most K Distinct Characters	<input type="checkbox"/> Basic Calculator II
<input type="checkbox"/> Sliding Window Maximum	<input checked="" type="checkbox"/> Minimum Window Substring

Linked List






<input checked="" type="checkbox"/> Merge k Sorted Lists	<input type="checkbox"/> Sort List
<input checked="" type="checkbox"/> Copy List with Random Pointer	

Trees and Graphs




<input checked="" type="checkbox"/> Word Ladder	<input type="checkbox"/> Surrounded Regions
<input checked="" type="checkbox"/> Lowest Common Ancestor of a Binary Tree	<input checked="" type="checkbox"/> Binary Tree Maximum Path Sum
<input type="checkbox"/> Friend Circles	<input type="checkbox"/> Course Schedule
<input checked="" type="checkbox"/> Course Schedule II	<input checked="" type="checkbox"/> Longest Increasing Path in a Matrix
<input type="checkbox"/> Alien Dictionary	<input checked="" type="checkbox"/> Count of Smaller Numbers After Self

Backtracking








## String

<input type="checkbox"/>  Palindrome Partitioning	<input checked="" type="checkbox"/>  Word Search II
<input type="checkbox"/>  Remove Invalid Parentheses	<input type="checkbox"/>  Wildcard Matching
<input type="checkbox"/>  Regular Expression Matching	






## Sorting and Searching

<input type="checkbox"/>  Wiggle Sort II	<input type="checkbox"/>  Kth Smallest Element in a Sorted Matrix
<input checked="" type="checkbox"/>  Median of Two Sorted Arrays	



## Dynamic Programming

<input checked="" type="checkbox"/>  Maximum Product Subarray	<input type="checkbox"/>  Decode Ways
<input type="checkbox"/>  Best Time to Buy and Sell Stock with C...	<input type="checkbox"/>  Perfect Squares
<input type="checkbox"/>  Word Break	<input type="checkbox"/>  Word Break II
<input type="checkbox"/>  Burst Balloons	





## Design

<input checked="" type="checkbox"/>  LRU Cache	<input checked="" type="checkbox"/>  Implement Trie (Prefix Tree)
<input type="checkbox"/>  Flatten Nested List Iterator	<input type="checkbox"/>  Find Median from Data Stream
<input checked="" type="checkbox"/>  Range Sum Query 2D - Mutable	

## Math

<input type="checkbox"/>  Largest Number	<input type="checkbox"/>  Max Points on a Line
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## Others

<input type="checkbox"/>  Queue Reconstruction by Height	<input checked="" type="checkbox"/>  Trapping Rain Water
<input type="checkbox"/>  The Skyline Problem	<input type="checkbox"/>  Largest Rectangle in Histogram