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Top Questions from

Microsoft



Overview

Top interview questions asked by Microsoft as voted by the community. We compiled this list thoroughly so you can save time and get well-prepared for a Microsoft interview. Completing this card should give you a good idea of the type of questions you would



Arrays and Strings

Microsoft likes to ask simple array questions. Reverse Words in a String is one the popular questions. Get warmed up by practicing Reverse String first.



Linked Lists

These are some popular Linked List questions being asked by Microsoft. We recommend Reverse Linked List, Linked List Cycle, Merge k Sorted Lists, Intersection of Two Linked Lists and Copy List with Random Pointers.



Trees and Graphs

Validate Binary Tree, Binary Tree Level Order Traversal and Binary Tree Inorder Traversal are frequently asked by Microsoft. Microsoft does not ask a lot of graph type questions but you should still know the basics of graphs.



Backtracking

We recommend Letter Combinations of a Phone Number and Word Search II.



Sorting and Searching

We recommend Sort Colors and Search a 2D Matrix.



Dynamic Programming

Microsoft does not ask a lot of Dynamic Programming type questions, but question such as Longest Increasing Subsequence has been asked in a Microsoft onsite interviews.



Design

These are some design questions for you to practice for your Microsoft interview. You should practice both Serialize and Deserialize Binary Tree/BST. Make sure for the BST variant that you use the special properties of BST for the serialization and deserialization.



Others

Here are some other questions for you to practice which are not in the previous chapters, so you can prepare for your Microsoft interview. We recommend Find the Celebrity, Excel Sheet Column Number and The Skyline Problem.



Discuss

[\(/discuss/explore/microsoft\)](#)

1 topic - share ideas and ask questions about this card

Introduction



Top interview questions asked by Microsoft as voted by the community.

We compiled this list thoroughly so you can save time and get well-prepared for a Microsoft interview.

Completing this card should give you a good idea of the type of questions you would encounter in your Microsoft interview.

Arrays and Strings



☒ Two Sum

☒ Valid Palindrome

☒ String to Integer (atoi)

☒ Reverse String

☒ Reverse Words in a String

☐ Reverse Words in a String II



☒ Valid Parentheses

☒ Longest Palindromic Substring

☒ Group Anagrams

☒ Trapping Rain Water

☒ Set Matrix Zeroes

☒ Rotate Image

☐ Spiral Matrix

Linked Lists




☒ Reverse Linked List


☒ Linked List Cycle

☒ Add Two Numbers

☒ Add Two Numbers II

☒  Merge Two Sorted Lists

☒  Merge k Sorted Lists

☒  Intersection of Two Linked Lists

☐  Copy List with Random Pointer

Trees and Graphs



☒  Validate Binary Search Tree

☒  Binary Tree Inorder Traversal

☒  Binary Tree Level Order Traversal

☒  Binary Tree Zigzag Level Order ...

☒  Populating Next Right Pointers ...

☒  Populating Next Right Pointers ...

☒  Lowest Common Ancestor of a ...

☒  Lowest Common Ancestor of a ...

☒  Construct Binary Tree from Pre...

☒  Number of Islands

☒  Clone Graph

Backtracking



☒  Letter Combinations of a Phone...

☒  Word Search II

☐  Wildcard Matching

☐  Regular Expression Matching


Sorting and Searching




☒  Remove Duplicates from Sorte...

☒  Merge Sorted Array


☒  Sort Colors

☐  Find Minimum in Rotated Sorte...

☐  Find Minimum in Rotated Sorte...

☒  Search in Rotated Sorted Array


☒  Search a 2D Matrix


☒  Search a 2D Matrix II


☐  Median of Two Sorted Arrays

Dynamic Programming




☒  Best Time to Buy and Sell Stock


☒  Maximum Subarray


☒  Longest Increasing Subsequence

Design



☐  Serialize and Deserialize BST

☐  Serialize and Deserialize Binary...


☒  Implement Trie (Prefix Tree)

☒  LRU Cache


Others




☒  Single Number

☒  Roman to Integer

☒  Excel Sheet Column Number

☐  Find the Celebrity



☐  Integer to English Words

☒  The Skyline Problem

