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

○ **Arrays and Strings**

Microsoft likes to ask simple array questions. Reverse Words in a String is one if 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

○ **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

## 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

## 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

💬 **Discuss**

0 topics - 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 Traver…
- [ ] Populating Next Right Pointers in Eac…
- [ ] Populating Next Right Pointers in Eac…
- [ ] Lowest Common Ancestor of a Binary…
- [ ] Lowest Common Ancestor of a Binary…
- [ ] Construct Binary Tree from Preorder a…
- [ ] Number of Islands

☐ 🗎 Clone Graph

## Backtracking ◯

☐ 🗎 Letter Combinations of a Phone Num…

☐ 🗎 Word Search II

☐ 🗎 Wildcard Matching

☐ 🗎 Regular Expression Matching

## Sorting and Searching ◯

☐ 🗎 Remove Duplicates from Sorted Array

☐ 🗎 Merge Sorted Array

☐ 🗎 Sort Colors

☐ 🗎 Find Minimum in Rotated Sorted Array

☐ 🗎 Find Minimum in Rotated Sorted Array II

- [ ] 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 Tree
- [ ] 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