

# **Company Preparation**

**Interview Process &&  
Most Asked Questions in  
Technical interview and OA of -**



**amazon** (Part-1)



Just simplified my experience here...

Hope it goona help you all...

Save this pdf and thanks me later

 @himanshu\_shekhar16  
 @himanshushekar

# AMAZON INTERVIEW PROCESS

## **Online Assessment Round**

Online assessment is the process of conducting a test online to gauge the participants' learning and mastery over a particular subject.

3 question have been asked and 1 hours allotted.

Difficulty level is Medium

All problems should be done in order to get a call for technical interview rounds

## **Data Structures and Algorithms Rounds(3 Rounds)**

The candidate is asked DS/Algo problems where production ready code might be expected from the candidate. It is not out of the realm of possibility to face minor behavioural questions here as well. The problems range from easy to hard but they are not the sole deciding factor for the final offer. Leadership principles also come into play here. The interviews are conducted on Amazon Chime.

The main focus of these technical rounds are to check problem solving ability of a candidate. Be Prepared it well

## **HR Round(1 Round)**

This is when they ask computer science theory and behavioural questions to the candidate. The questions may enquire about the candidate's experience at previous companies and conflicts the candidate might have faced with colleagues/managers.

Should prepare all HR questions

# Previously Asked Questions

- ✚ Subarray with given sum
- ✚ Check for BST
- ✚ Minimum number of jumps
- ✚ Kadane's Algorithm
- ✚ Missing number in array
- ✚ Left View of Binary Tree
- ✚ Remove loop in Linked List
- ✚ Find duplicates in an array
- ✚ Detect Loop in linked list
- ✚ Kth smallest element
- ✚ Sort an array of 0s, 1s and 2s
- ✚ Majority Element
- ✚ Nth node from end of linked list
- ✚ Finding middle element in a linked list
- ✚ Detect cycle in a directed graph

- ✚ Reverse a linked list
- ✚ Peak element
- ✚ Check if Linked List is Palindrome
- ✚ Detect cycle in an undirected graph
- ✚ Count Inversions
- ✚ BFS of graph
- ✚ Boundary Traversal of binary tree
- ✚ Diameter of a Binary Tree
- ✚ Get minimum element from stack
- ✚ Intersection Point in Y Shapped Linked Lists
- ✚ Equilibrium Point
- ✚ Parenthesis Checker
- ✚ Count pairs with given sum
- ✚ Trapping Rain Water
- ✚ Maximum Product Subarray
- ✚ Check for Balanced Tree
- ✚ Find triplets with zero sum
- ✚ Height of Binary Tree
- ✚ Rotate a Linked List

- ✚ Find Transition Point
- ✚ Add two numbers represented by linked lists
- ✚ Rotate Array
- ✚ 0 - 1 Knapsack Problem
- ✚ Determine if Two Trees are Identical
- ✚ Minimum Platforms
- ✚ Validate an IP Address
- ✚ Delete without head pointer
- ✚ Maximum Path Sum between 2 Leaf Nodes
- ✚ Longest consecutive subsequence
- ✚ Find Missing And Repeating
- ✚ Sum Tree
- ✚ Smallest Positive missing number
- ✚ Rat in a Maze Problem - I
- ✚ Largest subarray with 0 sum
- ✚ Level order traversal in spiral form
- ✚ Reverse a Linked List in groups of given size.
- ✚ The Celebrity Problem
- ✚ Bottom View of Binary Tree

- ✚ Triplet Sum in Array
- ✚ Mirror Tree
- ✚ Vertical Traversal of Binary Tree
- ✚ DFS of Graph
- ✚ Level order traversal
- ✚ Remove duplicates from an unsorted linked list
- ✚ Find the number of islands
- ✚ Print all nodes that don't have sibling
- ✚ Lowest Common Ancestor in a Binary Tree
- ✚ Next Greater Element
- ✚ Minimum distance between two numbers
- ✚ Add 1 to a number represented as linked list
- ✚ Multiply two strings
- ✚ Partition Equal Subset Sum
- ✚ Square root of a number
- ✚ Implement Atoi
- ✚ Wave Array
- ✚ Row with max 1s
- ✚ Palindrome String

- ✚ Circular tour
- ✚ LRU Cache
- ✚ Reverse words in a given string
- ✚ Merge two sorted linked lists
- ✚ Implement strstr
- ✚ Check if subtree
- ✚ Topological sort
- ✚ Inorder Traversal
- ✚ Frequencies of Limited Range Array Elements
- ✚ Binary Tree to DLL
- ✚ Queue using two Stacks
- ✚ Maximum Index
- ✚ Maximize The Cut Segments
- ✚ N meetings in one room
- ✚ Product array puzzle
- ✚ Lowest Common Ancestor in a BST
- ✚ Quick Sort
- ✚ Divide and Conquer

- ✚ Right View of Binary Tree
- ✚ Preorder Traversal
- ✚ Coin Change
- ✚ Stack using two queues
- ✚ Flattening a Linked List
- ✚ First Repeating Element
- ✚ Merge Sort
- ✚ First and last occurrences of x
- ✚ Longest Common Subsequence
- ✚ Stock buy and sell
- ✚ Max length chain
- ✚ Count distinct elements in every window
- ✚ Given a linked list of 0s, 1s and 2s, sort it.
- ✚ Subset Sum Problem
- ✚ Maximum of all subarrays of size k
- ✚ Find length of Loop
- ✚ Insert a node in a BST
- ✚ Binary Search Tree



- ✚ Reverse Level Order Traversal
- ✚ Root to leaf path sum
- ✚ Connect Nodes at Same Level
- ✚ Stock span problem
- ✚ Longest Increasing Subsequence
- ✚ Construct Tree from Inorder & Preorder
- ✚ ZigZag Tree Traversal
- ✚ Symmetric Tree
- ✚ Find Pair Given Difference
- ✚ Pairwise swap elements of a linked list
- ✚ Check if string is rotated by two places
- ✚ Index Of an Extra Element
- ✚ Delete a node from BST
- ✚ Count the triplets
- ✚ Union of Two Sorted Arrays
- ✚ Solve Problem
- ✚ Josephus problem

# TIPS FOR AMAZON INTERVIEW PREPARATION

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Now that we know about the rich heritage of Amazon, its work culture, and Leadership Principles, I am sure that you are tempted to interview at Amazon and take a job! Here are a few tips which you can use to crack Amazon's interview and get a job

1. **Understand the Leadership Principles Well** - As mentioned before, Amazonians take great pride as far as their Leadership Principles are concerned. Therefore, knowing about these principles and citing an instance or two where the candidate has applied them in real life will have a positive impact on the interviewers. This leaves an impression that the candidate is genuinely interested in working with the company.
2. **Be Thorough with Data Structures and Algorithms** - At Amazon, there is always an appreciation for great problem solvers. If you want to have a good impression of the interviewers, the best way is to prove that you have worked a lot on developing your logic structures and solving algorithmic problems. A good understanding of Data Structures and Algorithms and having one or two good projects always earn you brownie points with Amazon.
3. **Use the STAR method to format your Response** - STAR is an acronym for Situation, Task, Action, and Result. The STAR method is a structured way to respond to behavioral-based interview questions. To answer a provided question using the STAR method, you start by describing the situation that was at hand, the Task which needed to be done, the action taken by you as a response to the Task, and finally the Result of the experience. It is important to think about all the details and recall everyone and everything that was involved in the situation. Let the interviewer know how much of an impact that experience had on your life and in the lives of all others who were involved. It is always a good practice to be prepared with a real-life story that you can describe using the STAR method.
4. **Know and Describe your Strengths** - Many people who interview at various companies, stay shy during the interviews and feel uncomfortable when they are asked to describe their strengths. Remember that if you do not show how good you are at the skills you know, no one will ever be able to know about the same and this might just cost you a lot. So it is okay to think about yourself and highlight your strengths properly and honestly as and when required.
5. **Discuss with your interviewer and keep the conversation going** - Remember that an interview is not a written exam and therefore even if you come up with the best of solutions for the given problems, it is not worth anything until and unless the interviewer understands what you are trying to say. Therefore, it is important to make the interviewer that he or she is also a part of the interview. Also, asking questions might always prove to be helpful during the interview.