

# Amazon Interview Experience SDE1

- Difficulty Level : [Medium](#)
- Last Updated : 15 Jul, 2019

Amazon Interview Experience SDE-1

This was a hiring drive at the Chennai office. Around 40 people attended.

Day 1 interviews

Round 1: Written Round

[Longest Palindrome in a String](#)

[Transform to Sum Tree](#)

[Reverse a Linked List in groups of given size.](#)

Round 2: Tech Round

[Maximum sum such that no two elements are adjacent](#)

Questions on Dynamic programming \xe2\x80\x93 Overlapping subproblems and Optimal substructure property for the above questions  
Full Code, Time and Space complexity

Round 3: Tech Round

Question 1: [k-th distinct \(or non-repeating\) element in an array.](#) \xe2\x80\x93 Code

Question 2: XOR Linked list \xe2\x80\x93 discussion and tracing an example

Question 3: [Group Anagrams Together](#)

Given Hash-based and Trie based approach and code for Hash-based implementation

Question 4: Check whether N is reachable with numbers a and b instead of 0 and 1 using Fibonacci series. ( $-\infty \leq a, b \leq \infty$ ) Full code.

Question 5: [Convert a given Binary Tree to Doubly Linked List](#)

Day 2 \xe2\x80\x93 Interviews

Round 4: Bar Raiser

1. Projects Discussion

2. More Behavioural questions and Scenario-based question (Regarding Cloud Architecture)

3. Design patterns \xe2\x80\x93 Singleton, Builder, Prototype, Factory.

4. Questions involving REST API \xe2\x80\x99s.

5. Finally a problem: Pseudo code and tracing an example

[Median in a stream of integers \(running integers\)](#)

Suggested 3 ways of solving the above problem comparing their time and space complexities

Round 5: Hiring Manager Round

1. More discussion on projects
2. Still more behavioural questions and Scenario-based questions.
3. Discussion on Restful Web Services.

My Personal Notes\narrow\_drop\_up

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