## Amazon Interview Experience | Set 424 (For SDE 2)

- Difficulty Level :\nHard
- Last Updated :\n12 Jul, 2019

## Round 0: Online Coding Test (90 Min \xe2\x80\x93 4 Coding Questions)

1. Run length encoding

\r\nInput : aaaaaabb\r\nOutput : a5b2\r\n\r\nInput :aaaaabccc\r\nOutput :a5bc3\r\n

2. Linked List pair sum count

3. Rotate Doubly Linked List by N time

**GeeksforGeeks Link** 

 Given Binary Tree, find level of x node if x is present otherwise return 0. GeeksforGeeks Link

After 1 month recruiter called for f2f rounds. There were 4 rounds on the same day.

#### Round 1: Hiring Manager Round (Behaviour + Design)(1.5 Hrs)

Intro, Project & Lot of Behaviour Questions

- 1. Project Biggest Challenge and how did you solve it ? (Choose recent & best)
- 2. Tell me a time when you mentor someone?
- 3. Tell me a time when your manager was not there and you had to take up some important decision?
- 4. Tell me a time when you have to deep dive into something on your own?

Lot of other behaviour questions. Finally gave a design problem to solve.

#### Design:

Do integration for Splitwise app with Amazon Pay (or Paytm)

- 1) where a person can pay to another person and money directly gets deposited into other person\xe2\x80\x99s bank account.
- A person can also send reminder to another person for owning money.

#### Round 2: Design Round (1.5 Hrs)

- 1. Detailed discussion on project and design of it, how will you scale your project to support n number of users. Focus was on scalability & distributed design.
- 2. Design a job scheduler, scalability, fault tolerance, high availability, how scheduler picks up job,

how will you take care where one job can run for 30 min and one for 30 hour, how will you distribute jobs on servers.

Based on frequency & time how will you execute them?

How will you notify back the user about start/stop or completion of a job?

How will your system know if a job is killed / terminated due to unknown reasons?

## Round 3: Coding Round (1.5 Hrs)

Given array and a Linked List where elements will be from the array but can also be duplicated.
Sort the linked list in the order, elements are appearing in the array. O(n) complexity was expected. Complete running code on paper was expected. All boundary condition checks were expected.

GeeksforGeeks Link

#### Round 4: Coding Round (1.5 Hrs)

 Given a n-ary tree, basically a graph but connected and doesn\xe2\x80\x99t contain cycle. every edge is given a weight, identify all paths from all vertex to all vertex & then sum of all paths. Give final result as sum of all paths.

First write the data structure to solve this problem, then efficient algorithm, then complete working code on paper.

## \xc2\xa0

Overall it was a positive experience, recruiter kept me informed about the progress and about next rounds.\xc2\xa0First four rounds went well but I wasn\xe2\x80\x99t able to solve 5th round problem, and\xc2\xa0was eliminated after then.

Thanks a lot to geeks for geeks for having such a great amount of collection to practice on.

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## Advise:

- Please do prepare for behaviour questions as well. Have one or two example ready for all the questions. Most of them are available here
   :\xc2\xa0http://kraftshala.com/how-to-raise-the-bar-in-the-amazon-interview/
- Prepare for design rounds seriously, they look for scalability, high availability &\xc2\xa0distributed system architecture in your design.
- For coding prepare your basics and have them thorough, \xc2\xa0practice using pen & paper for writing code.

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