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## Amazon Interview | Set 19

- Difficulty Level : [Hard](#)
- Last Updated : 14 Jun, 2019

I recently had a set of interviews with Amazon.com and listing below the questions. The day had around 15-20 of us at their office and the whole process took close to 12 hrs.

Hope, people can reap benefit from it.

**1st Round:** Online Written round.

a. Determine if a matrix is a cross-matrix.

A cross-matrix is a one in which all the diagonal elements are same and not repeated anywhere else.

b. [Print the level-order in reverse order, i.e. from Bottom to top.](#)

c. One more easy question, which I don't remember now.

**2nd Round:** F2F- Developer

a. [Kadane's Algo.](#)

However, it was hidden behind a good problem set.

Interviewer wanted to identify whether I can recognize the same.

I did not remember it instantly but was able to prove it by solving.

b. [Linked-list intersection point.](#)

Again, had to decipher the above from a different problem set.

[A tree with only parent pointer, how to find LCA?]

Was able to easily identify the same and we quickly moved onto other things.

**3rd Round :** Hiring Manager

a. Design a stack which can perform findMax in  $O(1)$ .

Had read the answer once in some book and duly told him have heard it.

He verified and we moved on.

b. [Set of stocks for each day have been given. Need to find the days on which I buy and sell share to earn max profit, alongwith finding the max profit.](#)

Had to write the code, which I was able to do well.

He was impressed and I felt I had a good chance.

**4th Round:** Developer

a. [Find top k searched elements from a continuous stream of data.](#)

I remember we needed to use Min Heap but his constraint was using a continuous stream.

Finally was able to do it with his help.

b. Some design question based upon his team's problems.

Had to use a queue and a hashmap to solve it.

He was very much interested in whether I could identify the complexities correctly.

**5th Round:** Manager Different Team

a. Given a linked-list and 2 integers k & m. Reverse the linked-list till k elements and then traverse till m elements and repeat.

Write production quality code.

I am not sure what happened and why I fell off on such an easy question, but you just can do something like that in the last round.

b. An array of elements have been given. [Find for each element, first max element to its right.](#)

Was able to do it well, however lost it on complexity analysis.

c. [Boundary traversal of a tree.](#) Write the code.

Wrote the code, however he was not able to check the same as took a lot of time.

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Before this round, I had good hope of getting selected, but\xc2\xa0no one\xc2\xa0can give such a bad last interview and get selected and hence after 2 weeks got a rejection mail.

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This article is compiled by **Mohit**. If you like GeeksforGeeks and would like to contribute, you can also write an article and mail your article to [contribute@geeksforgeeks.org](mailto:contribute@geeksforgeeks.org). See your article appearing on the GeeksforGeeks main page and help other Geeks.

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