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Round 1  [1 hour]

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He asked me 2 question (design)

1) online ticket booking system

2) PUT , GET rest api services for image uploading.

i was asked to give my designs. **only basic HLD was required.**

make sure you **don't presume things** and always take full information of what he expects you to do.

you can never build a prefect design under 1/2 hr, but you can show the high level design and how you will tackle the different issues in this design. they are looking for somebody who can think about issues or challenges and design based on it.

and remember

-> always take time and think before start giving him design.

-> speak your mind , about why the design is like that , that will help you to show your thought process.

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Round 2  [1 hour]

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the second round was taken by a lady.

she was really interested in my project as it was something new and we did detailed discussion on that.

she asked how i tackled some critical issue in my project and i explained her that.

Questions asked were

1) given two binary search trees, find if one tree is a part of the other.

if yes, merge that tree in the other one, otherwise print "it cant be duplicated".

2) print a binary tree in zigzag fashion, starting from node.

i explained my approach and wrote the code on piece of paper with time and space complexity.

these question can be found on geeks for geeks or careercup.

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Round 3 [1 hour]

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he introduces himself and then i did the same.

discussed my project briefly.

questions asked were

1) level order traversal in binary tree.

 there was some miscommunication between us and i used some other data structure.

but then i corrected it quickly and gave the right answer. but later i got to know that he negated my points because he thought i used wrong approach.so make sure you ask your interviewer clearly about question.

2) there is a N x N matrix and you have to start at [0,0 ] and the only way you can move is either next column or next row.

  how may ways are there to reach [N,N] cell. [ use dynamic programming]

i explained my approach and i wrote code for both questions on paper with complexity.

ROUND 4 AND ROUND 5 are with senior mangers and

they focus on

->your design skills ,

->the work you have done and ,

->your capability to tackle situations.

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Round 4 [1 hour]

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\* we introduced each other

\* discussion about project

  asked my why amazon ? and why i am leaving my current job  ?

  asked me to design a app store so that different phones with different capabilities can see apps , which are supported on their phone    only. asked me HLD and discussed about that.

gave a a scenario and my team and asked me how will i handle it.

asked me if i have any questions about amazon and we talked about it.

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Round 5

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\* same stuff as round 4

 \* he asked me to design a system so that a million jobs with different priority can be executed such that we can optimize the servers  efficiency. obviously the jobs with high priority execute first.

 the key here is that the senior mangers are not looking for your coding skills or data structures or algorithms, you are good at that , that's why you are in round 4 and 5. they are looking for the approach you take to solve the big problem.

i have explained some imp points but some more key points are

1) if you are appearing for SDE 2, then just coding is not enough , your design skills should be good.

   you could be lucky in coding if you were asked some question you already read before or knew,

   but when it comes to design you must have had atleast a little experience in designing , even if its a small application.

2) always discuss with interviewer even if you have doubts , it will show atleast you are thinking rather then sitting there and doing nothing,

3) give at least 2 months on data structure and programming.make your basics really good before jumping to complex stuff.

4) always and i mean always code atleast 4-5 times in a week and solve your problems on computer. it will keep you sharp and you will feel better prepared.

5) refer geeks for geeks for preparation but also keep reading question from careercup. together they are more than enough.