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## Amazon Interview Experience | Set 372 (For SDE II)

- Difficulty Level : \n[Medium](#)
- Last Updated : \n11 Jul, 2019

### Round 1 (45 Mins)

Brief description of the current project: Architecture, Technologies, Workflow etc.

1. A 2D array problem(cant remember exactly) but I have to sum up the values on given constraints: He asked to start with basic approach so I gave  $O(n^4)$  time complexity solution then he asked for improvisation, after some workout I came up  $O(n^2)$  time and  $O(n^2)$  space complexity solution. He asked for more optimisation (avoid extra space) but in given time I could not find solution without extra space.
2. Find the difference between sum of values in odd level and sum of values in even level in given binary tree: I explained the approach then he asked me to write code with both recursive and non-recursive approach.

**Solution:** [GeeksforGeeks Link](#)

### Round 2 (50 Mins)

1. Tapping Rain Water problem: I didnt know the classic solution but I came up with my own approach which worked fine.

**Solution:** [GeeksforGeeks Link](#)

2. A 2d array with all 1s and 0s where 1s are land and 0s are water, Matrix itself is surrounded with water i.e 0. I gave him  $O(n^2)$  time and  $O(n^2)$  space complexity solution and he accepted.

He asked questions like most challenging task you did in your past experience, I explained him about middlewares I implemented earlier for tracking the exceptions in code.

### Round 3 (written)

I was called in Amazon office after few days (very nice office)

1. Tree traversal with several ways.
2. Few linear array problem

I believe this round was just for warmup.

### Round 4 (45 Mins)

Brief description of current project: this time he was more focused on technologies and tools. He asked every technology I mentioned in deep.

1. Top view of given binary tree.  
**Solution:** [GeeksforGeeks Link](#)
2. An html format string was given where I have to find output of given queries.  
Ex.

Pratik

Queries would be like: GET name, so output would be Pratik. (something like that)

## Round 5 (Manager)

1. After some formal discussion he came up with his question \xe2\x80\x9cDesign pattern for chess game\xe2\x80\x9d for which I wrote few classes and explained approaches for the game like peer to peer and client-server but he was not satisfied. This round didn\xe2\x80\x99t go well.

I could not make it but it was very good experience, All interviewers were so friendly and helpful.

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