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Amazon Interview | Set 90

- Difficulty Level : [Medium](#)
- Last Updated : 20 Jun, 2019

1. Phone Interview

- Given sorted array in decreasing order. Find first occurrence of given key.
- [Find diameter of a binary tree.](#)

2. Face to face 1 (Programming skill)

- [Optimal Strategy For A Game](#)
- [Merge N sorted lists to a single sorted list but comparisons should be minimum](#)

3. Face to face 2 (DS round)

- [1 represent A, 2 rep B etc and 26 rep Z. Given a number, find number of possible decoding for this number. No need to consider number starts with zero. Eg: input 1234, output 3\(ABCD, AWD, LCD\)](#)
- [How to find a loop in linked list.](#) How to remove this loop.
- [How to design LRU cache](#)(looking for the DSs used and their interaction)

4. Face to face 3(Design)

- A device need to upgrade and downgrade its software. Eg: mobile phone need to upgrade its OS. Design high level and low level.
(follow-up 1. form version X to Y is not possible but z can. 2. from current version to latest version not possible but we can upgrade to an intermediate version and then to latest version. What DS will be effective here)
- Design a semaphore.

5. Face to face 4(curtain raiser)

- HR questions including prev projects, best work etc
- [Given a linked list where each node contains an extra arbitrary pointer which points to any node in the list. Write code to clone the list.](#)
- [Print vertical sum of a binary tree.](#)
- Print a binary tree in vertical zig-zag order.

6. Manager round

- manager round HR questions. Team fit questions etc.
- Given a mathematical expression. How to design this expression evaluator using OOPs concept.

Each round consists of 1 to 1.30 Hrs.

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