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# Amazon Interview | Set 81 (For SDE-I)

- Difficulty Level :\nMedium
- Last Updated :\n19 Jun, 2019

Hello Geeks, I had interview in amazon few days before. I\xe2\x80\x99m sharing you my experience. It was for SDE-I Profile for Hyderabad(India) location.

**Round 1: Online Coding(Interviewstreet)**
Q1. Print the nth largest node of the given BST. In this question you will have to write a function.

Q2. Convert the BST into sorted doubly linked list. In this question also you will have to write a function.

Q3 & Q4 was simple algorithm based.

**Round 2: Telephonic Interview-I**
Q1. Given Matrix, and co-ordinates of sub-matrix of given matrix find sum.

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\r\n Eg  1  2  3\r\n  4  5  6\r\n  7  8  9\r\n  \r\n  C
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Q2. Given a linked list reverse every n chunks.
EG: 1 -> 2 -> 3 -> 4 -> 5 -> 6\xe2\x80\xa6n = 3

Output: 3 -> 2 -> 1 -> 6 -> 5 -> 4\xe2\x80\xa6

later they extended this Question\xe2\x80\xa6If there is only one node and give many conditions.

**Round 3: Telephonic Round-II**
Q1. Design a data structure for insertion, deletion & get minimum element in O(1)time complexity? Implement the same.
Q2. Given a Binary Search Tree and two nodes find parent node which is parent of both nodes in a given binary search tree. Later the they extended it to simple binary tree.

**Round 4: F2F-I**
Q1. Is given n-ary tree is Sum tree or not? implement function\xe2\x80\xa6

Q2. find Nth largest element in an array

**Round 5: F2F-II**
Q1. Vertical traversal Order of tree(implement it).

Q2. Lots of discussion on project.

**Round 6: F2F-III**
Q1. Given a circular array and a pointer find the given element in the array.

Q2. Lots of discussion on current company & company\xe2\x80\x99s work.

**Round 7: F2F-IV**
Explain:
1. Customer Producer problem,
2. Semaphore
3. Deadlock how to solve it.

Q: Favorite Sorting Algorithm.why,where to use it? and various question on the sorting algorithm which I answered.

Every time they ask for time complexity for code. Ask to optimize my solution.

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**All Practice Problems for Amazon** !

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