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Amazon Interview experience | Set 127 (For Internship)

- Difficulty Level :\nMedium
- Last Updated :\n24 Jun, 2019

Amazon visited our campus for summer internship. I prepared from Amazon Interview Sets which were pretty helpful!

Here is my experience :
DAY 1
They had an online aptitude test on day 1. It was 90 minutes: 20 MCQs + 2 coding questions (choice between C/C++/Java for coding).
MCQs were based on DSA, OS, and Math. They were apparently difficult.
Two Coding Questions :
1. Keypad problem \xe2\x80\x93 Little difficult problem on backtracking.
2. Given an array, find the count of impossible triangle
Day 2:
Surprise aptitude test:
2 coding questions 60 mins.
Questions involved DSA and strongly based on optimising the code:
1. Given a linked list, reverse K nodes in it
eg :- 1->2->3->4->5->NULL , k = 3
3->2->1->5->4
2. Search for an element in an array which has elements who\xe2\x80\x99s values are first increasing and then decreasing. (Use modified binary search)
2 One-on-one Interview rounds, both technical.
Try giving THE most optimal algorithm which satisfies edge cases too.
I was told to write the code on the paper.

Questions asked to me were:

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First interview round

1. Find the second largest element in an array.
2. Given a sorted array which can have repeated elements, find the occurrence of an element. (Most optimal solution is O(logn) \xe2\x80\x93 Using binary search to find start and end occurrence)
3. Make a data structure and implement an algorithm to print all the files in a directory. (the root directory can have sub-directories too.)
I used an n-ary tree and BFS to print files. It can also be done using Stack.

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Second interview round

1. He asked some question about my CV
2. Print a matrix diagonally.
3. DFS of binary tree, n-ary tree.
4. Then he asked some question from other subjects.
OS \xe2\x80\x93 Scheduling
DBMS \xe2\x80\x93 Normalization, Transaction
OOPS \xe2\x80\x93 Abstraction

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