Amazon Interview Experience | Set 206 (On-Campus for SDE-1)

Difficulty Level :\nHard

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Hi Everyone recently Amazon visited our campus for SDE-1 and internship and I got an offer for internship as well as SDE-1. Here\xe2\x80\x99s my experience.\xc2\xa0

Written Exam(1hr:30mints):\xc2\xa0

There were 22 questions asked in which 20 were of MCQ\xe2\x80\x99s and 2 coding questions. Most of the MCQ\xe2\x80\x99s came from OS, Algorithm, C-o/p and aptitude (directly from previous year Computer science GATE).\xc2\xa0

First coding question: Determine the diameter of a tree (Taking input was a bit difficult as we have to take input in array of unknown size, sort it and create BST).\xc2\xa0

Second coding question: Given a string of words seperated by comma, we have to print pair of words who are anagrams line by line(case-insensitive). If you don\xe2\x80\x99t find any such pair then print -1.\xc2\xa0

Interview Rounds:\xc2\xa0 Round 1(1hr:15mints):\xc2\xa0

- 1. Started with Introduction then he jumped into project and discussed about 15 mints.\xc2\xa0
- 2. Given an array print elements according to frequency and if two elements have same frequency then print it in decreasing order.\xc2\xa0

3. Given a binary tree, <u>print boundary traversal</u>\xc2\xa0

\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\left\ agiven in gfg) then he asked me to do it in single traversal. I discussed alot with him then finally came up with solution by using queue and stack data structure. Later he asked me code it and I coded correctly. He was impressed with my code.\xc2\xa0

Round 2(1hr):\xc2\xa0

- 1. Started with project discussion of around 25 minutes.\xc2\xa0
- 2. Given an array of stock prices, find maximum loss in buying and selling stocks. I gave him approach first, then he asked me to code. Coded it.\xc2\xa0
- 3. Implement garbage collector in C without using free function.\xc2\xa0
- 4. What is virtual inheritance.\xc2\xa0
- 5. Explain how the file is stored in memory.\xc2\xa0
- 6. Explain UNIX I node Implementation.\xc2\xa0
- 7. Difference between process and threads.\xc2\xa0
- 8. How threads are executing parallelly and how they share memory.\xc2\xa0
- 9. Asked algorithm to schedule kernel level threads(gang scheduling).\xc2\xa0

Round 3(1hr:30mints):\xc2\xa0

- 1. Started with Introduction\xc2\xa0
- 2. Detailed project discussion of around 45 minutes.\xc2\xa0

- 3. Given me the Resource allocation graph with set of processess and resources, ask me to tell him the approach to execute all the process.\xc2\xa0
- \xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\ in told him to use topological sort suddenly he said very good and ask me to code. I coded it.\xc2\xa0
- 5. basics of synchronization i.e code for wait and signal operation and how the semaphore maintains their suspended list.\xc2\xa0

At the end of this round interviewer was very impressed.\xc2\xa0

Round 4(1hr):\xc2\xa0

- 2. He gave me a java code using lock on this keyword. Ask me is there any problem in the code using lock keyword when multiple threads are running concurrently. I found the problem then he ask me to resolve it and I resolved it.\xc2\xa0
- 3. What is virtual memory. Who implements it.\xc2\xa0
- 4. How virtual memory concept is implemented in system.\xc2\xa0

Tips:\xc2\xa0

- 1. Interviewer don\xe2\x80\x99t expect you to give all correct answer though they want to see your approach first and how you tackle a problem which you don\xe2\x80\x99t know apriori.\xc2\xa0
- 2. Brush up OS fundamentals thoroughly and try to practice code on paper as much as you can.\xc2\xa0
- 3. Along with basic data structures also have some idea of advance data structures like BBST, Trie, Graphs etc.\xc2\xa0
- 4. Think loud in front of interviewer and try to engage him all the time.\xc2\xa0
- 5. Listen his words carefully, probably they will have some hints to answer.\xc2\xa0

I would like to thanks geeksforgeeks team for providing such a great platform. You guys are doing awesome job.\xc2\xa0

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All Practice Problems for Amazon !\xc2\xa0

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