Company: ORACLE

Top topics you prepared?

Data Structures: Array, Strings, Trees, Linked List, Stack, Queue, Tries, Graph etc.

C++: OOPS, File handling, STL

Operating System: Process Management, Memory Management

DBMS: Joins, Normalization, Transactions, Indexing (Very imp)

Duration of Preparation

3-4 months

Preparation Tips

Tip 1: Make your problem solving skills strong by coading regularly on GFG/Hackerrank/Leetcode.

Tip 2: Practice aptitude questions.

How did you apply?

On Campus.

Resume Tips

Do not mention anything that you don't have command on just for the purpose of filling your resume. Be very honest because interviewer is definitely going to ask about each and every word mentioned in your resume.

Interview Round1:

Ques1: What is data, database and what is the need of dbms when you can just store data in an excel sheet?

My Ans: Told how data is stored in excel sheet and how any software increases the efficiency by using indexing. Then I was asked to explain different types of indexing methods with an in depth discussion of time complexity for each method.

Ques2: Print Fibonacci series for n numbers such that if number is a multiple of 3 and 8 increment it respectively.

My Ans: Explained the recursive, DP and O(1) space approach.

Ques 3: What is the size of your laptop RAM and what would happen if you try to open a file with a larger size?

My Ans: 8 GB and then explained the concept of virtual memory.

Ques4: Next question was a follow up question on how paging works, what is page time fault, thrashing and what happens when a page fault occurs.

My Ans: Explained the complete frames process with different paging algorithms. Then I was asked to give a basic idea about complexity for each algorithms. Explained how OS functions when the logical address generated by CPU is not in page table.

Ques5: This question was about one of my projects in which I had used trie data structure.

My Ans: The interviewer asked me about the complete implementation using linked list and how insert and search functions work in a trie along with trade off between linked lists and tries.

Ques6: This question was about another project in my resume (Basic Chat App)

My Ans: I told about modules included and libraries used.

Then there was general discussion about my internship, strengths and area of interest.

Interview Round 2:

Ques1: Why Oracle?

My Ans: Interviewer asked me to tell something other than what was told in ppt. Share why you have interest in Oracle honestly.

Ques 2: There was a long discussion about need of OS, can a computer work without OS? Follow up questions on how OS manages resources and what are system calls followed by a question on deadlocks.

Ques3: What is the project you are currently working on? Explain the tech stack used.

Ques4: Explain your internship project?

Ques5: This was a coding question where I had to take data of temperatures of n no of cities and print the output as per query demand?

My Ans: I used Array and unordered map. Then explained the working of maps.

Interview Round 3:

This was the hiring manager round where the interviewer asked me about my favourite subject. Then he asked me some concepts related to system design like if you want to design an ola cab what would be the steps you would follow and what would be the things to be keep in mind.

Answer these questions after thinking properly. Mention factors like Availability, Compatibility, Latency etc.

Then he asked me what would you do if your system goes into deadlock and then he explained how things work at a bigger level and how you just can't restart your system.

Then asked me about threading and techniques to achieve synchronization, follow up questions on my answer like what is the difference between busy waiting and non busy waiting solutions with reference to real life examples.

Then he told me how things work in Oracle and what factors should be considered while designing big applications.

A little discussion on what is cloud and data warehouses.

At the end of each interview round I was asked if I had any questions. This is the time to show your interest in the company and the job role. Ask questions related to work culture and more questions on your role and what are their expectations from you. Show them that you are willing to learn.

Be honest in your interviews and try not to say anything on which you don't have much command because the follow up question is going to be from there only. Even though I had not worked on any new technology and didn't had big projects in my resume I was selected because I answered each and every question asked by them about what all I had in my resume.

GOOD LUCK!!