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Amazon Interview Experience SDE1 | Off-campus

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Round 1:

Online coding test comprising of three coding questions. The coding problems were:

- Find next greater number with same sets of digits
<https://www.geeksforgeeks.org/find-next-greater-number-set-digits/>
- Maximize the number of 1s by flipping a subarray
- Find minimum operations required to make an array sorted:
<https://www.geeksforgeeks.org/minimum-number-of-swaps-required-to-sort-an-array-set-2/>

Round 2:

She asked two coding questions and asked me to dry run test cases maintaining time and space complexity. The coding questions are:

- Find the sum of all nodes present in each level and finally the print the product of all sums found at each level
- Find row having maximum number of one in 2D sorted binary array
<https://www.geeksforgeeks.org/find-the-row-with-maximum-number-1s/>

Round 3:

This round is completely technical and no coding questions. After the introduction and questions from my current job role, he asked to design portal and database schema for a given input.

After doing so he asked questions from the database like

1. What is the difference between master and transaction table
2. What is a cursor, trigger in the database, stored procedure, ACID property
3. How to improve database performance (indexing in the database)
4. JSON and difference between HTTP and HTTPS

Round 4:

Initially, I gave an introduction and details of my current job and works then he asked one coding questions and a few technical questions from OS.

1. Print all nodes which are at K distance from a particular node
<https://www.geeksforgeeks.org/print-nodes-distance-k-given-node-binary-tree/>
2. What is thrashing, page fault, System call, kernel
3. Memory allocation technique, paging, segmentation.
4. How a big size program can be efficiently loaded onto RAM and virtual memory concept.

Round 4: Bar -Raiser Round

