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Amazon Interview | Set 73 (For SDE-1)

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I have been interviewed for SDE1 by amazon. Here are the questions.

1st Round \xe2\x80\x93 Online Coding
1. Contiguous elements in an array whose sum is k.
2. Convert sorted array to binary search tree.

2nd Round \xe2\x80\x93 Telephonic
1. Implement stack with Push, Pop, GetMin and GetMax in constant time. Algo + Code
2. Given a matrix, sorted both horizontally and vertically, algo and code for finding an element in it. Algo
3. Given a stream of characters, convert it to a sentence with valid words. Assume you have a function IsWord which returns true if the passed string is a word. He asked me to write code and mail him. Algo + Code
Ex: Iamgoodboy \xe2\x80\x93 I am good boy

3rd Round \xe2\x80\x93 Telephonic
1. Given an array of characters, find the longest continuous non-repeating sequence of characters. Algo + Code
Ex: aabcdefdghiajk \xe2\x80\x93 efdghiajk
I have given a hash based solution, so he asked me to write a custom hashfunction and how to handle collisions.
2. Find the next largest palindrome number of the given number. Algo + Code
Ex: 120 -121, 123 \xe2\x80\x93 131

4th Round \xe2\x80\x93 InHouse technical round
1. Find the mirror image of a binary tree. Algo + Code
2. Given a string, find the largest repetitive sequence. Algo + Code
Ex: abcdefbcd \xe2\x80\x93 bcd, banana \xe2\x80\x93 ana

5th Round \xe2\x80\x93 InHouse technical round
1. Given a string, remove \xe2\x80\x98a\xe2\x80\x99, \xe2\x80\x98bc\xe2\x80\x99 from the string and print theresult. Algo + Code
Ex: asdbc \xe2\x80\x93 sd
2. You will be receiving an infinite sequence of numbers continuouslyand at any particular moment find the 10 largest ten numbers receivedtill now. Algo

6th Round \xe2\x80\x93 Bar raiser round
1. Given a graph, find the nodes which are at less than k distancefrom the given node.Continuation: find all the nodes which are less than k distance from m
nodes. Algo + Code
2. Implement a queue using an array. All base conditions. Code
3. Given a very big array of millions of integers, find sum of all the elements.
Parallel processing and threads is the answer. Threads concept,
synchronisation and so many of it.
4. OS concepts \xe2\x80\x93 virtual memory, paging, process states, paging algos.
5. In detailed explanation of projects done till date.

7th Round \xe2\x80\x93 Manager Round
Asked dilemma situation. Any process development work, work experience and all.

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All Practice Problems for Amazon !

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