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Amazon Interview Experience | Set 183 (SDE \xe2\x80\x93 New Grad Position)

- Difficulty Level : \n[Easy](#)
- Last Updated : \n28 Jun, 2019

Following is my experience. I hope it helps people out there, as I got help from other posts here before my interview.

Duration: 4 hours

interviewer #1: 8 am \xe2\x80\x93 9 am

Q1) tell me your interest

-> Big Data

Q2) what \xe2\x80\x93s latest thing you follow in it

-> Apache Spark

Q3) What is it and explain

-> told the standard MapRed and Hadoop vs Spark

Q4) what more features

-> told graph processing and MLLIB

Q5) Actual question starts here, [given the binary tree, how will you serialize and deserialize it to the file?](#)

->

answer1: Serialize => do in-order traversal and pre-order traversal and write it to a file

\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0 \xc2\xa0\xc2\xa0

\xc2\xa0\xc2\xa0 Deserialize => build the binary tree using pre-order and in-order traversal

\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0 he was not satisfied, gave me hint of no need to do complex in-order, pre-order thing

answer2: BFS clicked me, told him to do BFS and write to a file level wise

\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0 \xc2\xa0\xc2\xa0 \xc2\xa0\xc2\xa0 But he found a bug in deserialize method, I changed the serialize method for null values to speial character in file

he was okay with it, and asked me to write a code for it

asked the complexity

told him, was not convinced wholly, then finally told him, was still not

left the room with think over it \xf0\x9f\x99\x81

interviewer #2: 9am \xe2\x80\x93 10 am

Q1) bang on target, given 2 timeframes, check if they overlap

-> s1, e1, s2, e2

\xc2\xa0\xc2\xa0 ep1 = epoch(s1),

\xc2\xa0\xc2\xa0 ep2

\xc2\xa0\xc2\xa0 ep3

\xc2\xa0\xc2\xa0 ep4

\xc2\xa0\xc2\xa0 if ep1 <= ep3 <= e2 OR ep3<= ep1 <= ep4:\n\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0

return T\n\xc2\xa0\xc2\xa0 return F\nQ2) LCA in doubly binary tree !!!\n-> I frowned, what is doubly binary tree!!

\xc2\xa0\xc2\xa0 it\xe2\x80\x93s just every node has access to the parent

but you need to find the [LCA](#) and you do not have access to root of tree!
some brainstorm, and I got it
what is time complexity:
worst case: $O(n^2)$ in skewed tree
average case: was not sure, gave me hint, and I told him, was okay

told him the 1st way, was convinced but hinted me the better way
Got his hint, and gave the answer, was satisfied

Q3) [given 2 strings, how would you find if they are anagrams of each other](#)
-> solution 1: 2 hash (was okay but asked the better way)

hinted me that no of characters are limited
solution 2: told him the way of count sort, i.e. use 2 count sort arrays
but he said no need of other array, you can do in single array

told him the way, was satisfied

Interviewer #3:

\xe2\x80\x93 started with his long intro
\xe2\x80\x93 asked mine, and then stopped me as I was talking at length
\xe2\x80\x93 asked me about my search project
\xe2\x80\x93 asked me the basic design
\xe2\x80\x93 how did you deal with data when you cannot fit in memory
\xe2\x80\x93 how did you do intersection of posting lists
\xe2\x80\x93 what is time complexity

then asked me to design the chase game
stumbled like hell, i guess this is going to be my rejection factor

Interviewer #4: (manager) behavioral round

\xe2\x80\x93 gave his long intro
\xe2\x80\x93 asked about myself
\xe2\x80\x93 when did you feel that something could have been done in better way after delivering it in project
\xe2\x80\x93 when did you perform best way, as in what did you come up with that other could not do
\xe2\x80\x93 when did you go out of the way i.e. against your managers, or higher authority and deliver the best according to you

\xe2\x80\x93 asked the system architecture question: design the TINYURL system in terms of server architecture i.e. HA, scalability and request processing

\xe2\x80\x93 was satisfied, and left with good note.

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