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Amazon Interview | Set 31

- Last Updated :\n14 May, 2021

Recently I attended the Amazon walk-in and got selected for the position of SDE I.

Written test:\xc2\xa0
1. Write a code to convert tree to DDL(assume tree node contains pre, next pointers and set as null initially.)
2. WAP to encode and decode string.\xc2\xa0
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0 aabbbbcccd <->a2b4c3d1
3. Find the sum of elements in after nth iteration for below operation on array.\xc2\xa0

```
   original array  4 6 8 3 6    sum = 27\n   iteration1     -2 -2 5 -3    sum = -2   (a1= a2-a1)\n\n   iteration2:
```

Hiring Manager:
1. Find the nearest leaf node from given node in binary tree..\xc2\xa0
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0use post order traversal.. like LCA in binary tree\xc2\xa0
2. Find the first k largest numbers from large file size. Explain solution for\xc2\xa0
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0 1. When we have space to store K elements in RAM
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0 2. When we didn\xe2\x80\x99t have space to store K elements in RAM

Tech:
1. Design N-ary tree, to make sure that lock and unlock operations can be done with minimum complexity (height of tree)\xc2\xa0
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0a node can be locked when its ancestors or successor are not locked.\xc2\xa0
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0we can a unlock a node a any time.\xc2\xa0
2. a[] = {a,b,c,d,e} b[]={f,g,h} result should be = af+bg+ch+df+eg

Tech:
1. Find maximum product of subarray in given array of integers\xc2\xa0
2. Design T9 dictionary

Bar Riser:
1. Design a tree, in which a root can have unlimited children and write a code to print each level in a separate level
2. Print the anagrams present in a huge file (each line in file contains one word and you didn\xe2\x80\x99t have any constraints like limited memory etc..) for a give string
\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0\xc2\xa0use trie or hashmap
Like all Amazon interviews in GFG, here interviewer more concerned about edge cases and perf perf perf perfect code.
Thanks a lot GEEKS FOR GEEKS and my dear friends Ramesh, Purush, Jhadey for helping me in preparation.
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All Practice Problems for Amazon !\xc2\xa0

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