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Amazon off campus (All India campus hiring) SDE 1

- Difficulty Level : \nMedium
- Last Updated : \n15 Jul, 2019

Online Coding Round: (hackerearth, 1.5 hr)

1) Good Ranges:

Input : N, M (M no of queries)

Constraints : $1 \leq X [1, 4] \rightarrow 1+4 \rightarrow 5$

2 $\rightarrow [1, 1][2, 4] \rightarrow 1+1+2+4 \rightarrow 8$

3 $\rightarrow [1, 1][2, 2][3, 4] \rightarrow 1+1+2+2+3+4 \rightarrow 13$

4 $\rightarrow [1, 1][2, 2][3, 3][4, 4] \rightarrow 1+1+2+2+3+3+4+4 \rightarrow 20$

Link: <https://ideone.com/jzulOL>

2)

A tree with N vertices and N-1 edges is given. The value of the nodes given in the array where the i^{th} element in array gives the value of the i^{th} node (here array index starts from 1). Relation between parent and child node is given. Q queries will be given in the format of L X. Find the node which lies at level L mod (Maxdepth + 1) and has value just greater than or equal to X. Answer to query is the smallest value of such node and if no answer print $98-1^{\text{st}}$ (Maxdepth \rightarrow Maximum depth of the tree)

20+ candidates were shortlisted. F2F interview happened.

Technical round 1:

- 1) Tell me about yourself
- 2) [Majority candidate](#)
- 3) [Zig zag traversal](#)

Technical round 2:

- 1) [Remove duplicates from a sorted linked list](#)
- 2) [Merge k sorted arrays](https://www.geeksforgeeks.org/merge-k-sorted-arrays/) <https://www.geeksforgeeks.org/merge-k-sorted-arrays/>
- 3) Heap insertion, deletion and heapify

Technical round 3:

- 1) [K th largest element in a tree.](#)
- 2) [LRU cache](#)
- 3) Challenges faced in FYP.

Technical round 4:

- 1) Questions regarding projects I have done
- 2) Practical usage of stack and queue in computers (ex- stack \rightarrow recursion, queue \rightarrow process scheduling)
- 3) OS \rightarrow process, thread, difference b/w them.
- 4) DBMS \rightarrow normalization, De-normalisation, deadlock, deadlock avoidance.

Verdict : selected

Tips :

- 1) Should be able to write code clearly on paper
- 2) Should cover all edge cases before submitting to them.

My Personal Notes *narrow_drop_up*

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