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Google Internship Interview Experience | Off-Campus 2022

- Difficulty Level :[Basic](#)
- Last Updated :19 Oct, 2021

Applications for Google Summer Internship 2022 were open and I applied. I did not expect to hear back from them as my application was off-campus, without referrals, from a tier 3 college. But I did hear back from Google with an interview offer around 3 weeks later. We also had an interviews preparation session.

I have undergone 2 rounds of technical interviews 45 min each.

Round 1: Interview 1

- Warm-up problem Given an array, create a new array that will have $arr[i]$ and $2 * arr[i]$ from i iterating from 0 to array size. Return any shuffled version of this newly created array.

For example input $[1,2,3]$ new array $\rightarrow [1,2,2,4,3,6]$
any shuffled version $\rightarrow [2,3,4,6,2,1]$

- The main problem You are given the output of the previous question as an input in this question, You have to output the array which might have created this input.

For example input $\rightarrow [2,3,4,6,2,1]$ output $[1,2,3]$

Round 2: Interview 2

- Tree problem A tree node can either be an internal node or a leaf node.
- If it is an internal node then it stores the sum of lengths of strings present in its left and right child.
- If it is a leaf node then it stores string as well as its length.

Below is the tree node structure

Case 1) Only 1 node i.e. root node present
Case 2) Multiple nodes presents

- Given input is above tree and N when You have to return the Nth character present in the tree.

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