

Microsoft Interview experience | Set 103 (On Campus for IDC)

- Difficulty Level : [Hard](#)
- Last Updated : 28 Jun, 2021

Microsoft came to our campus to recruit FTEs for MS-IDC. The selection procedure involved a total of 5 rounds, at the end of which 5 candidates were selected.

Round 1 Online Coding Round

The first round consisted of 3 coding questions on Cocubes with a time limit of 75 minutes. Only the function body had to be coded.

- Given an array of n numbers, replace each element with its farthest coprime in the range [2, 250]. Example, the farthest coprime for 2 is 249 and for 243 is 2.
- [Given a number n, return the factorial of the number as a string.](#) (The number was passed as an integer parameter and the string had to be returned.)
- [Given two trees, tree A and tree B, return the size of the subtree if B is a subtree of A. Otherwise, return zero.](#)

Round 2 Group fly

This was a written round with 2 questions.

- [Given a sorted integer array and a number X, find the number of unique pairs in the array that sum up to X.](#) (similar)

Request format: "GET "\r\nResponse format: "DATA "

Give test cases for the above request-response query.

Example, a base case could be fetching data from a file on the server and comparing the data with the local copy of the same file.

Technical Interview 3 rounds

My first round was a design round. I was given 3 scenarios.

- Design a personal assistant like Cortana for your B.tech courses.
- Given the heights and states of all the students in your college, what kind of analysis and grouping will you perform on the available data?
- Consider a client-router-server network. Clients request for information from the server via the router. Every server has a backup in case it fails. How will you ensure data consistency after using the backup server when the main server fails?

My second round had 2 coding questions

- Given a binary tree, [print its level order traversal with each level on a different line.](#) Every line had to be prefixed with Level: (level number).
- [Given the root and two nodes of a binary tree, find the Least Common Ancestor \(LCA\) of the given nodes.](#) How will you modify the approach if every node has a parent pointer.

Last Round

The last round had a very simple question. Given a string, report if the string contains all unique characters or not. We were asked to write industry level code and provide test cases as well.

I would like to thank **geeksforgeeks.org** for providing such exceptional placement support. I did all my preparation from the website alone.

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[All Practice Problems for Microsoft !](#)

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