

Microsoft Interview  
Experience | Set 134  
(On-Campus for  
Internship)

Microsoft Interview  
Experience | Set 133  
(On-Campus for  
Internship)

Microsoft Interview  
Experience | Set 132  
(Software Engineer for  
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Microsoft Interview  
Experience | Set 131

Microsoft Interview  
Experience | Set 130  
(Internship)

Microsoft Interview  
Experience | Set 129  
(On-Campus for  
Internship)

## Microsoft Interview experience | Set 119 (For Internship)

Microsoft visits our campus every year as a part of the intern hiring program in the Day 1 slot. The procedure consists for three major steps-

- Online Coding Round
- Written Coding Round
- Interviews

Now, moving up the ladder in sequential steps-

*Note:* I am writing just the questions such that you literally visualize yourself into this interview. I will be discussing the answers if there arises a demand for so.

- **1<sup>st</sup> Coding Round**

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Microsoft Interview  
experience | Set 121  
(On-Campus for  
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It was an online coding round with 3 questions and hosted on cocubes.com. Just a matter of fact, everyone got a different set of three questions, better run-time and space complexity was awarded higher marks.

The set of three questions for me was –

- *Given  $n$  and  $m$ , find the nearest number to  $n$  which is divisible by  $m$ . If there exist two numbers at same distance, output the greater one.*
- *Given an integer  $n$ , if the binary representatino of this number is a palindrome, then find the number of ones. You are required to accomplish the task without using any data structure.*
- *Given a binary tree, find the length of the smallest path from the root to a leaf node with a given sum, in constant space.*

A lot of students were shortlisted from this round as doing all the three questions wasn't too tough here.

- **2<sup>nd</sup> Coding Round**

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Amazon Interview  
Experience for SDE  
intern | On Campus  
(December 2019)

Amazon Interview  
Experience for  
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It was an offline written coding round with 2 questions. Do write clean and correct codes, with appropriate names for variables and proper indentation.

The questions were –

- *Given a string as “Being in an IIT worths a lot”, convert it to “lot a worths IIT an in Being”. Don’t use string library functions.*
- *Given an array of integers, find the subarray with the maximum product.*

35 students were shortlisted from this round. An alert to be ready for surprises – the selection procedure wasn’t transparent enough for you to be confident in getting an entry to the next round. What I mean to say is, many among those who were shortlisted did it Wrong, and many others who did everthing fine weren’t granted an entry.

- **Interviews**

I went through three rounds of interviews with different persons, with around 2 questions in each round. The third round also had a discussion over my projects.

The standard ones –

- *Join all nodes at same level in a binary tree. Do this iteratively with constant extra space.*

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Interview Experience

- *Find whether  $u$  and  $v$  are connected in a directed graph, if yes, print the path.*

A bit interesting than those above-

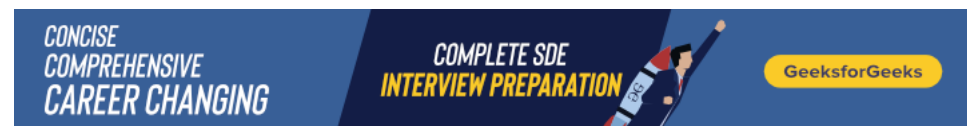
- *Do the first question of the written coding round without using ANY extra space, in  $O(\text{length of string})$ .  
It's interesting just bcoz it's something different.*
- *How would you implement a LRU cache?*

Apart from these things, they also considered the CGPA for the final shortlisting.

This article is contributed by **Shivam Dubey**. If you like GeeksforGeeks and would like to contribute, you can also write an article using [contribute.geeksforgeeks.org](https://contribute.geeksforgeeks.org) or mail your article to [contribute@geeksforgeeks.org](mailto:contribute@geeksforgeeks.org). See your article appearing on the GeeksforGeeks main page and help other Geeks.

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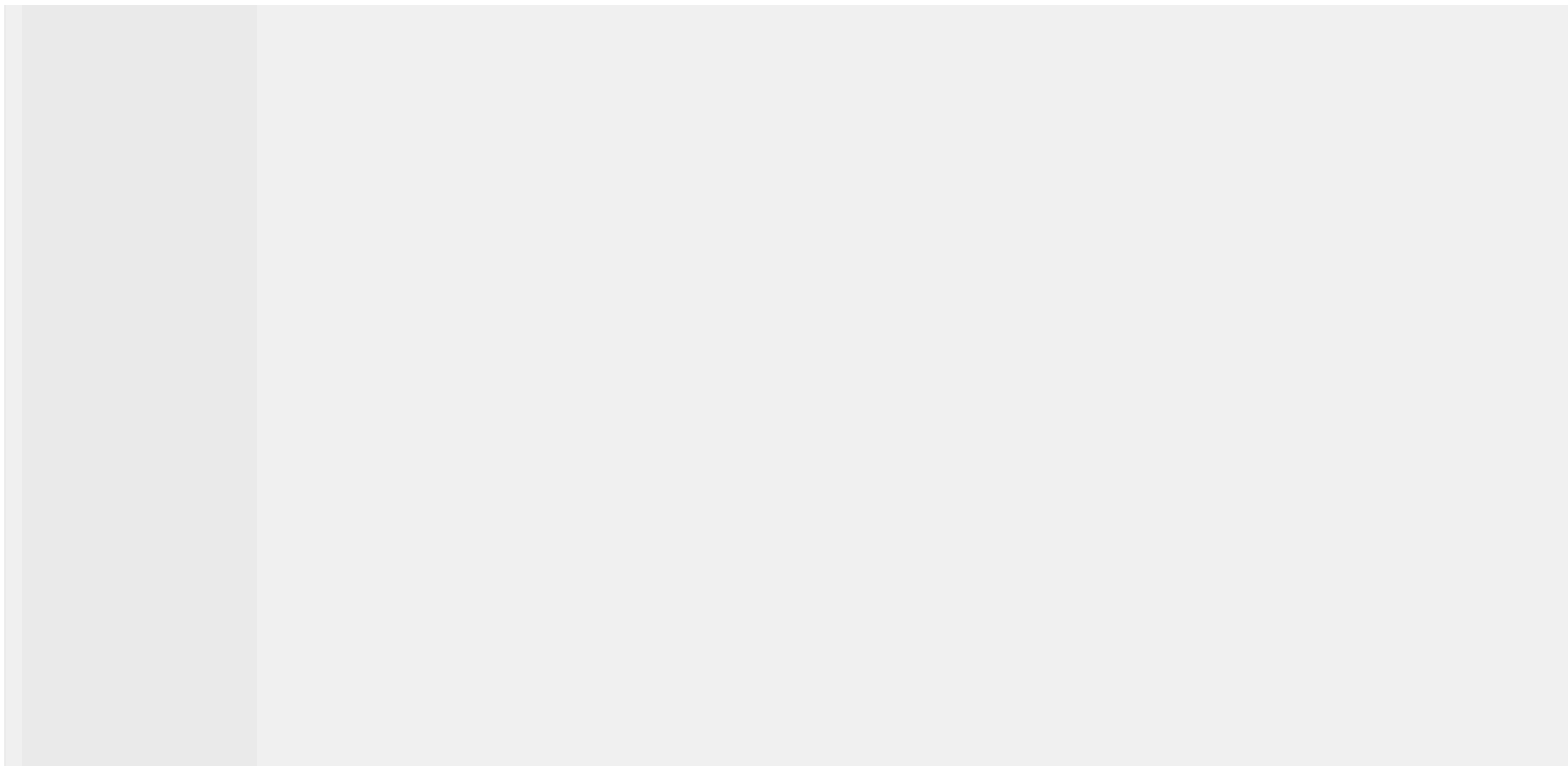
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