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Amazon Interview Experience | Set 292 (On-Campus for Internship)

- Difficulty Level : \n[Hard](#)
- Last Updated : \n28 Jun, 2021

Amazon came to our campus for hiring interns. At first there was a coding round then 2 personal interviews

Coding round: There was 20 mcq questions based on [DS](#) , [OS](#) , IQ and [output](#) questions

And there were 2 coding questions

1. [Given a string print the lexicographically smallest possible rotation of the string.](#)
(N square sol. Passed)
2. [Balanced parenthesis](#)
I did both coding questions and attempted 17 mcq and got selected for next round
Out of 500 ,47 were shortlisted

2nd round:(Personal interview)

First he asked me about myself then he gave me a question

1. [suppose there is a matrix filled with zeros and ones then find if there is a path between \(0,0\) to \(n-1,m-1\)](#)
I explained my approach(trivial dfs) Then he asked me to write a code for printing all possible paths I implemented it using backtracking
2. [Game of nim](#)
3. [Number of all possible bst for keys 1 to n](#)
4. number of all possible labeled binary trees for given n nodes
5. <https://www.geeksforgeeks.org/dynamic-programming-set-31-optimal-strategy-for-a-game/>
6. <https://www.geeksforgeeks.org/check-whether-a-given-string-is-an-interleaving-of-two-other-given-strings-set-2/>

24 students were shortlisted

3rd round:

- Design a data structure for a server which can store atmost 100 records, 2 functions are used to access server get(k) ,put(k,v,x).
Where k is key and v is corresponding value and x is the expiry time before which this record cant be removed
Implement a data structure to implement these function optimally. I implemented using self balancing bst and an unordered hash map
- Then he asked me to construct an avl tree for keys from 1 to n.

Cheers i got selected!!

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[All Practice Problems for Amazon !](#)

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