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MCA (2019-2022)

TruMinds Interview Experience

Round 1: Online Assessment

Platform used: HackerEarth | Time limit: 1 hour 15 mins | Level: Medium

Format: 15 MCQs (Logical, Verbal, C++, C#, OS, Networking, Java & OOPs)

1 DSA Question:

Given a list that contains N strings of lowercase English alphabets. Any number of contiguous strings can be found together to form a new string. The grouping function accepts two integers X and Y and concatenates all strings between indices X and Y (inclusive) and returns a modified string in which the alphabets of the concatenated string are sorted.

You are asked Q questions each containing two integers L and R. Determine the Kth character in the concatenated string if we pass L and R to the grouping function.

Note: It is always guaranteed that the Kth position is valid

Input Format

First Line: N (number of strings in the list)

Next N lines: String s_i

Next line Q (number of questions)

Next Q lines : Three space-separated integers L, R and K

Output Format

For each question, print the Kth character of the concatenated string in a new line.

Sample Test Cases

Sample Input

```
5
aaaaa
bbbb
cccccd
eeee
dddddd
3
3 3 3
1 5 16
3 5 15
```

Sample Output

```
c
d
e
```

Explanation

Q1 Grouped String ccccd. 3rd character is c

Q2 Grouped String aaaaabbbbccccddddddeeee. 16th character is d

Q3 Grouped String ccccddeeee. 15th character is e

Input

```
5
zpqrs
efghi
jklmn
abcde
```

2

```
3 3 3
```

```
1 5 6
```

Output

```
g
f
```

Round 2: Technical Round (1hr, Virtually conducted on MS teams, one panelist)

- Introduce yourself
- Detailed discussion on my projects (added in resume)
- Asked about everything I mentioned in the resume including extra-curricular activities
- Experience (In my case I have been working as a part time employee too/internships)
- My strengths
- Technical Questions-
 - 1) Create List (Python), Reverse content of list
 - 2) Perform slicing
 - 3) Write full program to implement slicing (asked me to run on IDE)
 - 4) OOPs concepts
 - 5) Constructor, Destructor, Macros (C++)
 - 6) Virtual memory

Asked if I want to ask anything.

Round 3: Tech + HR Round (50mins, Virtually conducted on MS teams, two panelists)

- Introduce yourself
- Details about my project (an app that I created) including motivation behind its creation, technologies used, source code explanation and snapshots of interface
- Asked ques related to JS in my case as I am more into web development
- eval() , async ,await, APIs kind of stuff...
- Asked about DS (arrays vs linked-list, stack vs queues)
- Created stack of real books on table and asked me to choose operation to make it Queue (logical ques)
- Puzzles (he showed me his screen to select answers MCQ format, 3-4 ques)
- Asked about project on which I would like to work (here they wanted to know whether I read about their projects or not that they are currently working on)
- Asked if I have any questions for them.

Important!

Don't panic at any cost.

Stay confident & keep a smiling face.

Talk to them naturally, don't try to act smart.

Listen to their questions carefully and try to judge the perspective behind their question (in case of behavioral questions)

Even if you don't know the answer, politely let them know, tell whatever you know clearly.

Ask politely to repeat in case you didn't understand anything

Remember face to face rounds are purely communication based, talk to them confidently even while solving the given problem talk about the approach you are using and in case you don't know how to solve at least try to solve in front of them (brute-force approach should be given at least)

Repeating don't panic, you will get what you desire for, just work hard and believe in yourself.

ALL THE BEST!