

# Tejas Khairnar

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## Interview 1

Rubrik typically expects you to run the code and show the correct output. Both the technical interviews were conducted on [coderpad](#) my interviewers had 5-6 years of experience.

They gave me question to solve which boiled down to print all the unique multisets of a given multiset with a given target sum.

Sol: As soon I saw the question I gave them a brute force approach for the problem but they wanted me to optimise the solution. Then for 10-15 minutes I discussed **MEET IN THE MIDDLE** kind of approach with them but later I realised that it was not helping much in the worst case TC although interviewers were impressed with the way I was thinking.

Then I quickly coded the brute force one with some optimizations as the interviewer told me that there were points for:

1. Correct code output
2. Logic to Code conversion time
3. Complexity of the code
4. Thought process

After that I optimised it further with the frequency counts of each number and after the interview was over I asked for the optimal solution for the problem , They could not disclose it due to some compliance issues but told me I was really close to it.

## Interview 2

1. My interviewer had an experience of 7-8 years.I was given a question wherein I had to basically print the shortest path form (1,1) to (n,n) where some weighted edges were present in the  $n*n$  grid.

Sol:As soon as I read the question and simplified it I started working with Dijkstra's Algorithm and started coding it after I explained my solution to my interviewer.

2. After getting the desired output for this question the interviewer further modified the question where I had to print all possible shortest paths form (1,1) to (n,n).

Sol:I stored a vector of possible parents for a given node.

```
for (auto u : adj[s])
{
    lli v = u.first;
    lli w = u.second;
    if (dis[s].first + w == dis[v].first){
        // push the node s into parent vector of node v
    }
    if (dis[s].first + w < dis[v].first){
    }
}
```

This round was more based on the ability to convert logic to code and write error free code as fast as possible.

## HR/Manager Round

This round was taken by the hiring technical manager of rubrik who had 12+ years of experience.

It was not like the usual HR rounds one of my projects was discussed in detail for 30 minutes then he asked me about one of My PORs.

After my interviews I was expecting a offer form their side but didn't get one XD.

## Tips for the Rubrik Interviews

Rubrik's Coding test was the hardest of all the coding tests and required a firm understanding of data structures and algorithms.

The interviews were on the easier side compared to the coding round.

You should be firm with one of your projects and must have a firm understanding of the same.

Here are some stats:

Round	Students shortlisted
Coding round	10
Round 1	7
Round 2	4

Rubrik is very selective when it comes to hiring so typically expect them to hire only 1-2 people, although there is some factor of luck but try to give your best. So don't take the HR/manager round lightly rubrik has a history of filtering through the HR round too.

And Yeah, One of my friend was asked Bounded Knapsack in his first interview

[CSES question](#)

[My code](#)

## Jatin Dhingra

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### Interview 1

One cp question. I was expected to code and run on sample test case. There were q queries. Queries were of 2 types.

1. add x(push element to vector)
2. xor x(take xor of every element present in array with x) Output final vector.

### Interview 2

Again a cp question and i was expected to code. Leetcode: Scramble string

## HR/Manager Round

Introduce yourself and then it seems he was interested in my project and there was around 50 min discussion on it.

## Tips for the Rubrik Interviews

Prepare well with interview bit and talk aloud and make ensure that you show interest in their firm just by asking question whenever interviewer ask if u want to ask something.

## Siddartha Jain

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### Interview 1

The whole interview was on coderpad, to compile and run my code on sample test cases with zoom for video chat. The interviewer asked me 2 questions :

1. given n items with their price values and the target sum, we have to find the no of ways to form the target sum from these n items and print those ways as well, so the output would be arrays of arrays.  
Ans 1 ) to find the no of ways I simply use DP and to print those ways I use backtracking and run the sample test case.
2. he just add a little bit modification to the above problem, he gave me array of tuples, say for example: { 1st item, 2nd item, 40% } so if I take item 2 and I have already take item 1 then I will get a discount of 40% on the price and vice versa.  
Ans 2 ) I just modified my above backtracking code using maps.

### Interview 2

The whole interview was on coderpad, to compile and run my code on sample test cases with zoom for video chat and they also want me to share my screen. There was a single question with a lot more modifications to it. Given a NxN matrix filled with non-negative values and given a effort value, with a constraint that we can move from one cell to another only if the absolute difference between the values of both cells is less than or equal to effort value.

1. determine if it is possible to reach ( N-1, N-1 ) from ( 0,0 ).  
Ans 1 ) simply apply dfs from ( 0, 0 ).
2. if it is possible to reach the bottom right position, then return the minimum path length.  
Ans 2 ) for this I apply bfs from ( 0,0 ) by maintaining distance 2D array indicating minimum length to reach at that position from (0,0).
3. in the above part, he asked me to print that path as well.  
Ans 3 ) I print the path with the help of distance 2D array starting from (N-1,N-1) to (0,0), store it in vector, and reverse that vector.
4. if it is possible to reach the bottom right position, then print the path with minimum sum ( sum of all the cell values you go through ).  
Ans 4 ) for this I apply Dijkstra algorithm, as time was less I did the modification to my previous code such as changing queue to priority queue and all.

### HR/Manager Round

I thought of this round to be something like he is going to ask me where do I see myself in next five years or asking about the company but Rubrik being Rubrik , he started with his introduction and then I go with mine. He asked me about my project, then asked me to explain it. He asked me a lot of questions related to different features how i implemented this and that, and if in future I have to implement this features how i am going to do that. It was a very tough HR round, nearly for half an hour, we were discussing on a single project. Then for the last minutes he asked me about my POR, what my role was, how I achieved it and so on.

## Tips for the Rubrik Interviews

Interviews are generally a lot simpler as compared to the coding round. All the interviewers test all my codes while running on sample test cases so be careful while writing code. Learn all about your projects and different technologies used in it, keep your project in which you are confident enough at top.