

## Paytm Interview Experience

Name: Rimjhim Vaish

Course: MCA 2022 passout

Number of rounds: 3(1 coding + 2 technical )

### Round 1: Coding round

Platform: Cocubes

Time : 70 minutes

Date: 11 aug 2021

No of questions: 3

Marking scheme: Easy (3m), medium (3m) and hard (5m)

Q1 :

<https://www.geeksforgeeks.org/remove-duplicates-from-an-unsorted-linked-list/>

Q2: Move last k nodes in singly linked list after N nodes

Assumption:  $(K+N) \leq \text{number of nodes}$

Note: do not create new linked list, just modify given LL and return it.

Input: 1->2->3->4->5->6->7->8, k=3, n=2

Output: 1->2->6->7->8->3->4->5

Explanation: last 3 nodes (6,7,8) are inserted after 2nd node.

Q3: <https://www.geeksforgeeks.org/sum-numbers-formed-root-leaf-paths/>

### Round 2

Date: 13 aug 2021

#### First level discussion:

She asked me about myself and then asked me to rate myself on scale of 10 for DSA.

Q1: Find the middle of the linked list and delete it.

Q2: what is multithreading, one code snippet and asked to give output/comment on it.

```

class T { public String receive(){
    try { wait(); }
    catch (InterruptedException e)
        { Thread.currentThread().interrupt(); Log.error("Thread
interrupted", e); }
    }
}

```

I wasn't sure of output so explained the terms(example wait(), try catch, exceptions) that I was familiar with and didn't sit quiet. Also gave one answer but not sure if it was right because she commented but her connection was very unstable and she quickly moved to next question

Q3: What are exceptions? What are checked and unchecked exceptions? Give 1 example of both.

Q4: Explain merge sort

Q5: given a number with trailing zeroes, remove zeroes and reverse the rest of the number.

Input: 3490

Output: 943

I first gave an approach using stringbuilder quickly then she herself asked to give an answer without using strings so i used the simple quotient and remainder approach and wrote code for it.

Note : tell time complexity and space complexity.

### **Final level discussion:**

Interviewer asked me if I was nervous. He told me about himself. He had an experience of 9-10 years. He then asked me the same.

He asked me to tell about my most recent project.

I explained the idea, inspiration and working of the project.

My interview lasted for 50 minutes out of which 35 minutes discussion related to object oriented designing and rest for 1 coding question at the end.

1. He asked me some questions on my project.
2. Suppose you have a whatsapp group and you and your friend share the same video on that group. What do you think happens on frontend and backend. How videos are stored, etc. I gathered more requirements and we had little discussion. Then he told me he wants a sustainable answer of how videos are stored. I explained to him that there must be 1 copy of video as to reduce redundancy and time and space on the server.
3. He took one more scenario that suppose you are part of 2 whatsapp groups A and B and someone shared a video on group A and you forwarded it to group B. Now the person who sent it on group A deleted the video. Explain what will happen in this scenario in backend and frontend.
4. Do you know about any Database? Explain mysql, nosql and its examples, differences between them.
4. He then asked me to make low level design of an ordering system where the customer wants to see its previous orders in swiggy. I drew more requirements but he was more of that you tell me whatever is coming to your mind. I made some classes (Person, orders, etc) and attributes and keep explaining and improving where he crossed questioned me a lot and I kept improving my design accordingly. He looked quite satisfied.
5. <https://www.geeksforgeeks.org/vertical-sum-in-a-given-binary-tree/>

At the end I asked him questions.

Note: Try not to ask for feedback but some questions which show that you are very much interested in work and your dedication and interest in the field.

1. I asked him about his experience when he was fresher.
2. How to read or understand a huge project code base efficiently.
3. I asked him to give any advice which I should follow as a fresher. He gave a very simple yet wonderful advice by saying that never stay stuck on any problem when things are not clear to you. Take help from peers/seniors

rather than wasting time on it for many days but that doesn't mean that people will spoon feed you. Try 10 solutions but don't be stuck.

All the best!! Keep working towards your goals everyday!!