

# Company: Coupa Software

Technical Round Pattern : Apti A : 9 Ques 20 mins (Logical Reasoning )

Apti B : 6 Ques 15 mins

Coding : 3 Ques. 50 mins (3 test cases each)

## Coupa Interview Questions Round 1

1. Project Based Questions
2. finding 2nd Largest In Array
3. Swap Two Integer Without 3rd Variable
4. Data Structure You have Learned In java
5. OOPS concept
6. Abstraction Implemented in Project
7. SQL Query used in project using Join

## Coupa Interview Question Round 1

1. All OOPS concept, give example of encapsulation
2. Inheritance, type of inheritance, Multi-level inheritance
3. SQL query to find second highest age of customer
4. Static block Vs static method, wrote code for static block, example
5. JVM architecture and java program life cycle in jvm
6. code to find vowels and their count from given string

## Coupa Interview Questions Round 1

1. Project based questions
2. What is relational vs non relational DB?
3. Difference between structured & unstructured data
4. React hooks
5. Two-sum problem , return indexes

# Coupa Interview Experience

## Round 1

1. Introduction
  - A. about myself, Japanese Proficiency, why IT after mech, CDAC Project flow in short
2. Engineering Project
  - Q. What was unique in our Engineering project?
3. Which Programming are you comfortable in?

- A. Java, .Net, C/Cpp Project, build Games in Python, 2 PHP websites (HTML, CSS, MySQL, PHP)

#### 4. CDAC Project

- A. Technologies used

User Flow - Java (JWT, HTTPS, BCrypt),

Stock Fetching .net,

Frontend - React (redux, axios)

5. Why Redux, any alternatives used?

6. Any challenges/ shortfalls faced in redux?

7. JWT used for Authentication or Authorization?

8. How did you implement JWT?

9. JWT Structure? - Header, Payload, Signature

10. How did you check if JWT is valid?

11. Explain JWT flow

- A. Security Filter Chain, OncePerRequestFilter, JWT Creation, etc

12. How did you ensure that the token is sent in every request?

- A. using Axios Create, and further custom middleware functions before making axios calls.

13. Components in React? - Functional, Class

14. where did you use functional component, example in project?

15. Gave a react code snippet and asked if it will work if not what changes are required?

16. What is React Strict Mode, did you use it in project?

17. How to render a list in react?

18. Why key is needed for elements?

19. Java code snippet, will this work?

```
""java
```

```
class SomeClass{
    private int n;
    public SomeClass(){
        this(1);
    }
    public SomeClass(int n){
        this();
        this.n = n;
    }
}
```

```
""
```

20. changed 'this' to 'super' in same code, will this work?

21. how to achieve Overloading?

22. can you overload main method?

23. Static vs instance methods, calling sequence?

- A. explained how class is created in JVM, where its metadata is stored, and then how instance is created

24. What is Object Oriented?

25. What is Serialization, deserialization?

26. Anything to be careful about in Serialization, deserialization?

27. Spring and Spring Boot

28. What did you use Spring Security for?

29. Did you use Docker?

30. What are the different ways to use mongoDB on a machine which does not have the required environment?

- A. Virtual machine, Separate Server, Container

31. Docker and Container?

32. Docker images?

33. Which can be the best way to give unique keys to elements in react?

- A. ways: Index of array, Function to provide unique no, id from the data itself  
best would be: index or id of data

Round 2

1. Introduction

2. Issues faced in project

- A. HTTP Options method, and mapping of filters

3. How frequently are you updating stock's data and how?

4. Build a Swiggy app (Took around 15 mins)

- A. Tables required to build the app along with what that table and column's purpose is.

- Flows/pages in the app such as, signin, signup, Products, Restaurants, Payment, Profile, Orders, Kart, Order Tracking (map), notifications, feedback, ratings, support, chat, etc and Explained the complete flow

5. Find Pythagorean Triples from the given array

6. Optimize the solution further

7. Do syntax checking for any Program written in a file

8. Took the same question to next difficulty level, added brackets inside Quotes

9. any questions?

- A. I would really like to know the Optimized solution to the pythagorean triples

## Company: CDAC Pune

( 3 panelist in a cabin)

1. Tell me something about yourself ( disturbed in between and asked another que)

2. What is stringbuffer ( in between 3 panelist 1 went outside for something and 2nd cabin member stopped my answer and asked -)

3. What is diamond problem ( one person came and started talking to 1 cabin member about chai biscuit )

4. What is collection

5.our requirement for pune is already full do u want to relocate to cdac Hyderabad

## Company : CDAC Pune

Technical Round (HR ques including):-

1. Introduce yourself : I think this is the most important que. I mentioned my recent achievements as WPT module topper and MERN stack based hackathon winner...this really added there interest in me.

2. Tell me something abt your Project :

- I mentioned key features of my project like RESTful Web Application, OOP features, AOP features, Testing and Logging, Microservice based archi, Spring security & JWT, docker and git.

- Spring mvc vs Spring boot, RESTful controller vs Controller, ques abt POM.xml like what n why...what will happen if we define same dependancies multiple times, spring-starters, IOC, how can u change server from tomcat to other.

- As I mentioned micro-service, they started to grill me on it and I was prepared for it : They asked me what/why abt MS, MS vs SOA, synchronous n asynchronous ways of web-service communications, ....etc.

- Whole flow of JWT-based authentication and authorization.

- I took the discussion further at my own and mentioned abt deployment and talked abt docker image, container, compose & network. Command to run multiple containers in network.

3. Fortunately I was able to satisfactory give answers to their questions and as I was taking the discussions forward in topics like deployment, JWT security, Microservice...They directly asked me some HR ques...like If I am flexible to relocate at any other place in India...so I was relaxed a bit. Then they started to have some normal conversation like what ur father do, why didnt u continue to prepare for UPSC and like that.

\* All these above questions were asked by 2 members on panel..3rd was just sitting and reading my resume \*

4. After that new panel-memeber walks in and started to ask ques on Core-Java :

- can u overload main method
- how to create thread-safe-singleton pattern
- can you override static method
- more more que on thread...Never heard abt that thing :(

5. Some dbms que:

- Delete vs Truncate
- Uses of Index

6. Member who was reading my resume suddenly interuptted me and asked me if I am able learn and work on other lang like Python as I am only java-guy?

- I told them with firm conviction that just give me 10 days and I will be deployment ready by 11th day.

\* Some suggestion from amature-person : prepare scripts for answers and tell like a story, mention heavy-keywords like Microservices and deployments if ur are ready to be grilled

onto it, try to speak on the unique concept that you know at ur own so that u pull interviewer in ur core areas. \*

Thank you 😊

Java ->

What is collection

What is synchronisation

Arraylist vs vector

Java code snippet

How to interrupt sleeping thread

SPRING ->

Create, create-read in application.properties file

Db first approach, spring MVC

Servlet life cycle,

Types of servlet , singleton pattern , how to create singleton class

DATABASE ->

normalisation

Candidate key, primary key

how would yo rate yourself in Mysql

OS ->

starvation, deadlock

Cdac pune InterView Questions:

Questions about android

- Asked about project
- Difference between fragments and activity
- What is in manifest file and what content included
- how you implement GPS in android application
- What's The Difference Between Web Apps, Native Apps, And Hybrid Apps?
- In react tell difference between state and props

## E-emphasys

35 questions apti (trigonometry, geometry, banking level)

45 ( c and sql mcqs)

Aptitude based on :-

Maths questions--

Area

Square roots

Pipe and Cirtern  
Angles  
Logical answering for 5-6 marks

Technical Questions :-  
90% on SQL  
10% C code snippets

## Bajaj finserv

35 que 40 min  
Aptitude  
Reasoning  
Figures puzzle question  
Graph question

Bajaj Finserv  
Round 1 - Technical MCQ + 2 coding  
Round 2 - Interview  
Introduction. Brief introduction of project. What is output of  
1) `system.out.println("test"+10+10)`. 2) `System.out.println(10+10 + "test")`.  
3) `public static void main()` and `static public void main()` is it work.  
4) Fibonacci series code.  
5) reverse array with efficient way.  
6) multi threading scenario base questions

## NetSPI India Pvt Ltd

Total 8 sections (Each having almost 7-8 que)

1st Sec : Aptitude  
2nd : reasoning  
3rd : OS  
4th: DS  
5th: SQL  
6th: Networking  
7th:

8th: only one coding que

We are taking n numbers as input till the user enters any negative no.

And storing each no. in an arraylist

Now

Select consecutive two digits numbers and do their sum

And if sum  $\geq 75$  then consider it as count 1

And return count to main function

## Motifworks test pattern

Total question 50

Timing - 60 min

Sql queries writing 40%

C#- coding 20%

Html, css and javascript- coding

Aptitude (pattern matching, seating arrangement 1question, verbal nonverbal)20%

## Pattern Technologies, Pune.

### Technical round

1. Sql query : interviewer asked to find name of the product & total quantity of products placed from products and orders table (interviewer was patient i wasn't able to find answer at first)
2. What should be the relation between products and order table (i said one order has many products so we should do OneToMany unidirectional association)
3. Java inheritance and polymorphism (i gave examples rather than theoretical answers).
4. Write stack class (pop, push, peek and implement one extra function called getMinValue() : that should return minimum value of stack.)  
- meanwhile interviewer checked my github project repo and saw that i had many commits and asked about some functions that i wrote in react. (easy level)
5. DSA : delete a node from linked list (he drew a linked list diagram i told me delete specific node)
6. what is npm. why you used it ? (i told some dependencies that i have used in my react project)

7. Do you have any question for me?

## Company :- pattern technology

Technical round :-

1. Give your introduction
2. I mentioned about docker and kubernetes in introduction he asked questions from docker. Which was not from what we studied .. tips :- don't mention them if you are not expert .
3. Gave three tables and asked for SQL query ... it used left outer join group by clause and ifnull()..
4. Basic oops principal.. encapsulation, Abstraction explained with good example
5. Angle between hour hand and minute hand ... gave some conditions on them ...I gave around 2-3 approaches to solve them. He also helped me to solve the question.
6. He opened frontend page which was created using react.. and showed me a perticular thing which was in a table in a page and told me find it why is this tag is showing differently from others ? without knowing backend and without seeing react code.  
The answer was go on networks see the data from where it is coming from . Open one url from where that table data is coming and check in JSON what's the different thing which is happening on that tag column.

HR round :- basic HR questions which is in our rapid fire sheet .. answer with confidence and with smile. In HR your way of presenting the answer and quality of answers should be great.

And in your turn ask more about company's future growth.. etc it shows we want to stay in company

Director Round :- he asked introduction and basic HR type questions and in my turn I asked about company performance and growth in this recession time.

## Company: Pattern technology

1. Tell me briefly about yourself and about your projects and what are the technologies you have used in your projects.
2. Then he asked me about What are the tables you have used in your project.
3. Then he asked what are the models you have made in your project.



4. Then he asked me What is JWT and Why you have used JWT in you project and What are roles present in your project?
5. Then he asked me What is the difference between authentication and authorisation.
6. Then he asked me in which technology you believe you are good. (Now here you should mention the technology that you are really good at and I mentioned about data structure and algorithm, C++ and Java).
7. Then he gave me a problem.  
"Two Sum"  
Given an array of integers nums and an integer target, return the array of pair of the two numbers such that they add up to target.  
Tip: Please first give the brute-force approach then go for further optimization.
8. Then he gave me another problem  
Given two strings s and t, return true if t is an anagram of s, and false otherwise.

HR Round and Director Round -

Both asked me basic questions about my background which are already present in our rapid fire sheet. Keep smile on your face and confidently answer all questions patiently.

## Yash pvt ltd

DBDA first round

Data engineer

Apti 20 questions level easy

Train

Simple interest

Work

Ratio

30min

Second round

105 questions 1 hr. 15min

Level medium.

Python

Sql

Spark

Kafka

Azure

Aws

## First Round (Yash Technology):

Intro

Hadoop and Sparks basics(Sparks master, Data Node, Name Node, HBase)

Knowledge about Cloud Techs (Introductory level)

Python program (Addition of 2 matrices)

Mostly spark that too in depth

DAG in depth

Project

Hypervisor

List set difference

Repartitioning

airflow

Narrow transformation

Wide transformation

Data transformation scenario based

2nd Technical Round (Yash):

Spark Dataframe Operations (Reading, Writing, Partitioning, Spark SQL Operations)

Python: List and Sets Difference

List comprehension

SQL (Dimension and Fact Table)

Which is a Default join?

## Neiron india test for dbda

Today test

5 coding questions

-3 SQL query(2 medium+1 hard)

2 python (1 tricky(prime number+1 searching algo))

2nd batch

3 Sql question- lead lag, simple where clause, case when

2 Python question - function to solve any one dimension math equation and find value of x.

Read json file from website and find number of document with age more than 50

## Company Name - SteepGraphs

What is OOPs?

What is data abstraction?

Give example other than ATM?

What is Encapsulation?

Give example other than a pen?

What is polymorphism?

Give example other than Animal?

What is static constructor?  
What is default parameter in method?  
Why is java platform independent?  
Why JVM is not platform independent?  
Explain internal working of JDK architecture?  
What is index?  
Explain it's internal working?  
Explain virtual table?  
Difference between temp table and virtual table?  
Restricted virtual table?  
Difference between primary key and composite key?  
Can a table consist of multiple unique key? Why?  
Tell me query to add unique constraint to column?  
Tell me query to create a table?  
Tell me query to add a column?  
Tell me query to add multiple records to a table? In only one query!!  
What do you know about collections in java?  
Tell me when will you use a queue? In technical implementation?  
Tell me when you will use a doubly linked list?  
Suppose you are playing a game of ludo? Which all data structures will you use to implement the game?  
If linkedlist then why? Why not array?  
Why array and not arraylist?  
If queue then why not stack?  
What is the problem with maps?

Suppose you are owner of Java, C++, C#?  
(I was C++ owner) Sell me why I should use Java and not C++ or C# ? (Based on role purposed)  
To build a automatic door and a stand that can be handled by remote control?

And many scenario based questions.....

GD topics:

1. Prohibition of Chatgpt (Pros and Cons)
2. One nation one election
3. Should moonlighting be made ethical or be considered unethical in India
4. EV Development

Second round by yash technologies

# Company: Avati Consulting Solutions pvt. Lmd.

## Technical Round - 1

1. Why did you switch from Mechanical to IT.
2. Please tell me about your project.
3. Which tech-stack did you use in your project?
4. What was your role in your project?
5. What is the difference between a primary key and a foreign key?
6. They showed me two tables below and asked me to identify which fields are primary keys and foreign keys.

Employee table

```
+-----+-----+-----+-----+
| eid | ename | salary | deptid | gender |
+-----+-----+-----+-----+
```

Department table

```
+-----+-----+
| deptid | deptname |
+-----+-----+
```

7. Write a query to find the second-highest salary in the Employee table.
8. Write a query to perform an inner join between two tables.
9. They asked me to join two tables using a left outer join and a right outer join, and then show the output.
10. Write a query to find out the count of employees for each department using department name.
11. Write a query to find out the second-highest salary for each department using department name.
12. Write a query to find out the count of males and females in the Employee table.
13. Delete duplicate rows from the Employee table.
14. From the following ArrayList, provide the occurrence of each number using Java 8 feature.

Input:        ArrayList<Integer> arr = { 1,2,1,3,2,4 }

Output:      1 -> 2  
              2 -> 2  
              3 -> 1  
              4 -> 1

## Technical Round - 2

1. Tell me about yourself.
2. Tell me about your project.

3. They gave me the Employee table and told me to find all the employees whose DOB is greater than 1995.
4. Give me the department-wise third-highest salary from the Employee and Department tables.
5. They gave me two tables and told me to apply UNION and UNION ALL on those tables and then show the output.
6. Difference between a function and a stored procedure.
7. Write a stored procedure to find out the total number of rows from the table.
8. What is indexing, and what are the types of indexes?
9. Have you used indexing in your project?
10. What is SQL Server Profiler?
11. Declare @var as 'myname'; write a query to select only 'nam' from this variable.

# Steepgraph

ROUND-1 (online) Aptitude + Technical MCQ (Java, JavaScript, DSA)

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ROUND-2 (on paper) 2 Java questions (based on strings) 2 SQL queries 15 snippets (JS + Java + C), where we need to write the final output -----

ROUND-3 Design a data structure for the "Bill of Materials Problem" using Java or C#

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ROUND-4 (Group Discussion) In a round table team of 18 candidates: What is JVM? Why is Java called machine-independent? Give a real-world example of a queue (like any software that uses a queue). Example: Kafka Provide a real-world example of a linked list. How would you design Ludo? How to design Dice? To design the blocks in Ludo, would you use an array or a linked list? SQL queries: Create a table One-line syntax to insert values into a table Add a column Make a column unique What is indexing? Discuss the advantages and disadvantages of indexing. To design an automated door, which programming language would you prefer C#, C++, Java or Python? If a candidate cleared all rounds but not willing to join your company, Now as a manager how will you convince him to join SteepGraph?

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ROUND-5 Hollow star pattern Program to convert JSON into XML and vice versa without using any inbuilt API more ques I attached in pdf

ROUND-6 (Technical + Managerial Round) Explain your project to the candidate sitting beside me. Then, they were asked to rate me on different domains. I was asked to interview that candidate based on their project and rate them. Explain your microservices-based

project. Some Follow-up ques based on project: What is Kafka? What is EC2? How did you implement CI/CD Pipeline?

Discussion based on previous round questions like the BOM problem. - Strengths and weaknesses. Your office time is 10:00 AM, but if there's a critical issue and I ask you to come in at 8:00 AM, will you be able to work? What are your aspirations for the next two years? If I offer you a position in development but later change it to a testing role, what would be your reaction? Do you have any questions for the interviewer? -----

ROUND-7 (HR Discussion) About your family and the possibility of relocating to Pune, etc.

## Avati consulting services

Aptitude test

- . On google forms
- . Mcq question on Java and sql
- . Java mcq question mostly on overriding coding snippets, wildcards in java
- . Sql queries mcqs (joins,..)

Interview questions

Mostly question for all was on sql

- . Command types
- . Some basic queries
- . 2nd highest salary sql
- . Write a query to retrieve only for digit of year from table that dd-mm-yyyy to yyyy
- . create stored procedure to take two inputs and return a table as output.

Core Java questions (mala konta hi vicharala nahi)

- . What is stream in Java? It's usage?

Advance Java

- . Spring Mvc flow
- . What is Resource class in spring? Write down one resource class.
- . Controller classes implement it on paper.
- . Difference between resource class and controller class?

# cloudlex

introduce yourself

project

ask me about my internship

ccee subject marks

one string reverse code

pillars oop

what is polymorphism?

Array and ArrayList difference?

ArrayList and LinkedList Difference

HashSet and LinkedHashSet difference

HashSet and HashMap difference?

Comparable and comparator

How element are get stored in TreeSet

Write a comparator to store element in desc order in TreeSet.

## Company : Alfa laval

Round 1 : Started with the introduction

1. I was showed 7-8 C# snippets and told to guess the output : This was to check oops concepts and programming logic
2. Some questions on Core Java like difference between abstract class and interface and where you used them in your project , static methods
3. Then he asked about my college project and blockchain and key features of it and how to create it and its use cases.( My college project was on blockchain)
4. I was given a table and asked whether it was correct : in the table some column contained multiple values , so I explained him normalisation concepts with some examples and also gave him normalised version of table
5. Other DB questions like difference between where and having , difference between delete and truncate .
6. Then HR have asked me how I would explain access specifiers to a completely non technical person with example
7. Then while leaving I asked them that most companies take aptitude or coding test but you had a completely different tests ( they had Psychometric Test and different games as their test) . Actually they had no idea about it and asked me to explain it in detail and then also asked about my experience . Then HR told me about their core values and maybe it was the reason for their test

Round 2 : Again started with introduction

1. They asked about my project . Briefly explain it , the tech stack used and also my role . Why did you chose the topic and what was your role in selecting topic . Why you used these technologies .
2. I had a gap of two years so they asked about it. Why you took it and what you did in that time
3. Why did you you choose the cdac course
4. Then about my previous job and organisation, what was my work and technologies and tools I worked on and why I left it . What I learned from that organisation.
5. Then they asked me that what would my friend tell about me ( I told about my strengths and weakness)
6. What was your favourite module and least favourite module
7. Then HR ended with asking what I know about Alfa laval .( In previous round HR had told me about their core values and principles) So I repeated these things
- 8 . In the end I asked about their experience in company . One senior person told me his journey , he had been working since last 18 years .

My suggestions :

1. Based on your profile like passing year , previous job , gaps , branch try to backtrack and create questions which can be asked to you . They are very effective and often ignored but plays very important role in deciding selection.
2. Try to ask relevant and interesting questions in the end which are unique and not asked by others ( like here I asked about their tests)
3. Try to create a rapport with interviewer as it lightens the tense environment , you can also use humour but it totally depends on situation. Infact after my first round the interviewer offered me tea and we had good 15 min informal conversations over it . Topics included their tests , my previous job( because one of interviewer had a friend working there).
4. Based on my observation company mostly asked questions , irrespective of job profile and company domain ,on your project and subjects like Core Java ( extra focus on oops concept) , Dbms and data structures . So give priority to these topics before others

Best of luck guys !!

## Iks health

Introduce yourself

Write code for swapping two numbers without third variable

Write a code for Fibonacci

(Only the logic in the chat window)

Tell me about your project in detail

Then he shifted to oops basics

What is polymorphism

Why we use it



What is interface  
What is abstract  
Give me 5 differences between abstract and interface class  
What is read only property  
What is const property  
Difference between const and read only property  
Then code snippets on overloading, javascript snippets, some java snippets also on string  
What is static binding  
Which .net version have you used for ur project  
Which architecture did you use  
Did you use any extra layers  
If yes then explain it how you are separating it from model and controller class  
Explain MVC architecture wrt ur project  
What did you use to call api  
What is the constructor then types of it  
Then what is Static constructor like why we use it  
What is a Private constructor  
Can we add parameters to static constructor  
Difference between public and static constructor

## Questions Bajaj Finserv :

- what is Triggers and syntax
- What is subquery and syntax
- All joins on given table
- What is stored procedures
- What is diff between exists and 'in' in query
- Python all data types and its Syntax and few operations on it
- Regex to draw pattern from string
- Big data hadoop Architecture
- Data structured in java and its time complexity
- what is databricks
- what are Facts and measures
- One table's colm has primary key constraint on it and other table colm is having foreign key constraint on it from primary key col from first table. How we can delete row from table having primary key constraint on it.
- how to change data type of any already created table's col

Question asked  
Azure databricks  
App deployment  
From where you have called pickle file  
Types of cluster in databricks  
Why u used blob  
SQL cursor

Components of cursor

Types of machine learning model used

SQL query to sum of negative numbers and sum of positive numbers separately

PowerBI basics

# Prescient Technologies

(Product Based Company: Cad Cam S/W)

Ctc: 6

Bond: 2 yr

1st round: Test

Sec 1: Aptitude 10 Que & Geometry 10 Que

Sec 2: Write logic/pseudo code/algorithm ( 5 Que )

1. Second largest in an array without using standard functions
2. Write sorting algo for any sorting algorithm
3. Check if no. Is prime or not
4. 1-1000 series, how many 7 occurs
5. Fibonacci Series

# Cloudlex

Round 1 - Technical mcqs and 3 coding questions

Round 2 - Technical+ HR interview

- \* Introduce yourself
  - \* Cdac project and your role
  - \* If 2 strings have same hashcode then are those 2 strings equal? Why?
  - \* Working of @transactional
  - \* What is IOC and DI
  - \* What are beans and their annotations
  - \* What is @Autowired
  - \* Explain linked list
- HR-----
- \* About family background
  - \* Your short term and long term goals

Round 3 - Managerial round with CTO

- \* Introduce yourself
- \* Cdac project and your role
- \* What is axios
- \* What are promises
- \* how to set jwt token to header in axios
- \* how to cancel request in axios
- \* What are triggers
- \* how to cancel delete query in before delete trigger
- \* http status codes 200, 300, 400
- \* What is cors
- \* what is a port
- \* difference between Interface and Abstract class

# IKS

Interview questions

Introduction.

Describe your project.

What was your role in the project?

What did you use for authentication?

Explain OOP principles.

Explain and give example of Abstraction, overriding, overloading

Show logic of swapping 2 numbers without the third in notepad

Show logic of palindrome in notepad

Difference between truncate and delete

Can you add primary key to a table after creation?

Can we call function in a procedure

Can we write dml in a stored procedure

Have you worked with .net MVC?

Are you willing to work with .Net technology?

# BTS

interview 1,

Tell us about your self

Which language you are more comfortable in?

Questions asked will be relavent to the language here I choose java;

OOPs concepts

explain Inheritance

explain types of inheritance

explain Abstraction

explain Encapsulation

Constructors

types of constructors

which is called when no constructor is defined

Project

Explain your project.

Data structure

Stack, Queue, Array basic questions on these.

Javascript

Datatypes

JSON

Does javascript contain character datatype?

== and === differnce

'2'+1 =? and why?

this keyword

how to know type of a variable

css

selectors types

Interview 2

Tell us about yourself

Explain your project in layman's terms

Explain it in detail

How to extract information from database explain the flow?

What technology used?

Javascript

Object

Arrays push pop shift unshift

explain for loop

how many loops are there

HR

What was your job profile at birlasoft?

How did you handle pressure situations?

What is your biggest achievement?

What are your strengths?

What are your weaknesses?

How do you manage an argument?

Why did you leave the job?

Have you done research about our company?

From which source the information was collected?

How many members are there in your family

Are you willing to relocate if you get the job?

Do you have any questions for us?

# AutomataPi

Introduction

Project Flow

more and more grinding on project(scenario based questions)

logical questions on map

why reactjs? why not angular?

how you use chatgpt?

Major focus- Project

# Prototech solutions

3 oct 2023

Introduction

What is a class

Oops pillars

Explain method overloading

Give example on notepad

Snippets on method overloading

What is constructor

Types of constructor

Does constructor have return type?

Why does it not have return type?

Snippets on constructor

What is polymorphism

Types of polymorphism

What is dynamic method dispatch?

What are types of inheritance?

What is linked list?

Geometry question

Consider a circle with midpoint

Another point is there

How to know if the point lies on circle, Outside circle or inside circle

What is formula for distance between 2 points?

# Tata Technology

Explain oops concepts in detail

Arraylist vs linked list

HashTable vs HashMap

What precautions we need to take when we are using hashmap with class object

eg.(HashMap<Integer,Employee> hmap= new HashMap)

Collection hierarchy

What is Spring boot

Stereotype annotations of spring boot

Hibernate annotations used in project

What is jpa

How to write modified query in dao layer

Explain different http methods

Explain any one get,put,post,delete working in your project

What are hooks in react

How to compile springboot application

How to run spring boot application in cmd

Starting point of springboot application

One code on String to arrange character in string in descending order

Tata Technologies- (4.5 lpa)

1st written test then 2 technical and 1 hr iv

Written -

30- apti qs

30- technical qs(os,Java,SQL etc)

2- coding qs (easy level, arrays)

1st iv -

What are Stream api ?

What are new features added in Java 8, Java 17 ?

Collections ?

Annotations used in project ?

What is oops ?

Hibernate annotations ?

Which cloud technology learned ?

SQL query to get Max salary of employee in department (two tables- emp, dept) ?

Which UI tech learned ?

Which Java framework learned ?

Various http methods ?

Diff btwn put and post mthd ?

# Knight Fintech Interview Questions

- 
- introduction + overview of project
- why you want to switch to IT what things facinate you to Switch Domain
- being from non it background how yopu managed to coupup with it students and speed for course
- flow of project and cross question on that
- have you used mvc or not in project.
- explain mvc
- by default which request goes
- how you integrated your backend and front end to middle end
- role of you in you project
- i told i have used docker,jwt,junit
- steps in docker implementation
  - what u used for security
- what is jwt
- in which technlogoy have you done your project(java and dot net both)
- how u r fetching the data from the database(technically batao)
- abstract class and interface
- can we write constructor in abstract class
- cross question on abstract class and constructor
- what are error
- types of error
- when compile time error occurs and how you handle that
- scenerio based que on error
- how you handle exception
- how you have handled in project
- can we write try catch inside catch block
- some ques onn try catch to confuse
- call by value and call by reference and where it will store in memory
- what is datastructure and what datastructure have you studied
- linked list vs array list
- array vs arraylist
- which to use when
- array vs linkedlist
- is my sql dbms or rdbms
- what is rdbms
- procedure
- delete vs truncate
- query-to find duplicate in table without using join
- primary key vs unique key
- how many primary key in table and how many unique key in table
- types of relationship in mysql
- snippet- track the output (easy level)
- logical question on array
- whay used hashmap(i have solved with hashmap)



- can we not solve it by 2 for loop(yes)
- complexity of using for loop
- genral questions
- fav technology
- some genral discussion on cdac curriculum
- will you be able to manage time

# Tata Technologies

ROUND 1:

APTITUDE MCQ=30

TECHNICAL MCQ=30

CODING QUESTIONS=2

TECHNICAL INTERVIEW:

(Technical interview round was 2 for many candidates but for me they took only one after that direct HR interview round)

1. Introduce Yourself
2. ok, then you are from mechanical background then why to do cdac?
3. what you studied in cdac?
4. what you know in core java?
5. Tell me what is collection?  
====>I explained full hierarchy on paper also told null, duplicate allow or not in set, list etc.
6. Can we add duplicate in set?
7. What is hash table?
8. Give any example of HashMap?  
====>I tell example from my project.
9. What is hash set?
10. One scenario of hashing (HashMap related)

KEY VALUE

A	ABC
B	DEF
C	GFI
A	XYZ

1. First, will it work or not?
2. If I tried to print A then what is print?

11. Tell me about Exception Handling?

====>I explained full exception handling from throwable till finally block with examples.

12. What is static?
13. What is static method?
14. What is difference between static variable and local variable?

====>he is expecting answer in memory context

15. Can we change the value of static variable?
16. What is thread?
17. Explain working of thread?  
====>I explained full working using methods like run (), start (), and both the way like runnable interface and thread class
18. What is the difference between array and collection?  
====> I answer in datatype context like primitive and non-primitive allow in array but in collection only non-primitive allow.
19. What is jsp?
20. Can you tell me life cycle of jsp?  
====> sorry sir not recalling exactly....
21. Difference between jsp and servlet?
22. Do you know Python?  
====>no but I will learn. as I learned java in 15 days in this course and as you see I have good command on it, so it is just a language I will learn if project requirement is python.
23. Do you know Cloud?  
====>same like above.
24. What do you learn in dotnet?  
====>yes, but studied only exam point of view, I am not conformable to answer dotnet answers.
25. Did any language learn in DOTNET?  
====>yes, C# but only basic and exam point of view as earlier mentioned.

##HR round

1. Introduce yourself?
2. Why change from mechanical to IT?
3. Your strengths?
4. Your weakness?
5. What you are doing to improve your communication?
6. Which newspapers do you read to improve your English communication?
7. Are you ok with bond?
8. Are you ok with reallocation?

//////////SELECTED//////////

## Onefin Interview Qustions

round 1

-basic aptitude reasoning and english Que 30 qustions for 60 mins

round 2 (virtual Technical 40 mins)

- introduction
- favourite subject
- Questions regarding api
- list tuple dictionary difference and application purposes of each collection
- string functions
- asked code to convert "ABC 123" into "ABC 321" (string reverse for second word)
- basic concepts of sql
- asked simple query based on group by
- explain normalization and why it is used
- difference between OLAP OLTP
- primary key foreign key
- python OOPS Questions(major/minor) and asked to explain some of them
- explain your mini project
- decorator and its uses

round 3 (virtual Technical 55-60 mins)

- introduction
- asked about cdac course
- live code - given 3X3 matrix and he wants sum of diagonal elements without considering middle element twice, with considering middle element twice
- pandas df, numpy array basics
- why numpy array faster than list
- asked scenario based questions for python coding on (pseudo coding)
  - error and exceptions
  - file handling
  - if else
  - for
  - pandas
  - numpy
- asked about project and told me to explain
- difficulties in project
- oops concepts
- dataframes operations
- sql concepts
- asked 2 queries (basic level)
- difference between union and joins
- python basic questions till collections

-round 4 (PI round 40 mins)

- introduction
- why you left your previous job
- what are your expectations
- why cdac why not any other institute

-how was your cdac journey and what new things you learned  
-explain project

# Company name- Product Dossier

- 1) aptitude test (pen-paper)
- 2) technical interview (2 rounds)

Interview round 1

Apti que 5-6

2 puzzles

Intro

Java

Inheritance

Interface

Abstraction

Static keyword

Inner class

OOPS Concept

Encapsulation and abstraction with real life example

Default methods

Number swapping code

Collection hierarchy

Vector vs arraylist

LinkedList vs arraylist

HashMap

Tell me names of algorithms in DSA

Why diff sorting algo are introduced

Which one is better and why?

What is graph

Write kruskals algorithm

Traversing in graph

What is primary key , unique key

Diff in primary key unique key

Explain cursor

Having clause

3 Queries

Explain your project

Why Spring boot

Explain spring security in your project

Explain jwt flow

Tell us about your family

Why mech to it

What do you know about our company

Round 2

4 puzzles

Explain project

Jwt flow with methods

How you have checked that tokens are generated

Why local storage

How role based login works in your project, how specific authorities are given to specific roles

Session management

Local storage vs session storage custom queries

Explain joins with example

Explain triggers

Do you have any questions for me

First round: Aptitude test

Second Round : Coding Test

Third Round : Technical Interview

1.Ask about Cdac Project

2. Diff between Abstraction and interface.

3. What is singleton class in java.

4.Oops concepts with real time examples

5.diff. between hashmap and hashtable

6.what is java string pool

7.What is DBMS (ask 3 to 4 queries on DBT )

8. Types of join What is inner join and outer join

9. Normalization

10. Then ask 2 to 3 scenario base que.