COVIAM Interview Experience

- **1st Round(Online Round):** Mcqs (20 aptitude + 20 Core Java)
  They had also asked some puzzles in the aptitude section.
  There were some Mcqs related Thread, GC, collections, File handling, Exception handling, String, Oops and output of the small programs in the Java section.
- **2nd Round(PI):** focus primarily on major Java, data structures, projects and your contribution to that project. This interview will examine your basics and The interview lasted about 1 hour 30 minutes.
- I write here the question that was asked in the interview and I remember
  - Introduce your self (Since this question is mostly asked by the interviewer, so prepare in such a way that your answer should be unique from others)
  - They ask me to solve these 4 puzzles
    Crossing the Bridge Puzzle, Water jug puzzle, Find the fastest 3 horses and minimum number of weighing to find the lightest coin
    but I could only answer 2 puzzles. [they will give some hints if you face any difficulty by solving puzzles]
  - then interviewer asked me to explain any two projects that you think are the best in your resume.
  - Then interviewer aske some question from DBMS like
    - find second highest salary
    - find Nth highest salary from the table without using TOP/limit keyword.
    - find the first 50% records from a table.
    - find last record from a table.
    - What is index?
    - ACID properties
  - Then interviewer aske some question from JAVA like
    - Give real life example of Abstract class and interface
    - How GC works
    - cloneable interface and Serializable interface
    - stringbuffer stringbuilder and string
    - few questions on collection framework
    - how red black tree works
    - Iterator and ListIterator?
    - difference between equals() and == in Java?
    - differences between Heap and Stack Memory in Java?
    - What is Java String Pool?
    - differences between throw and throws?
    - What is synchronization?
    - What Is singleton class?
    - What is the static block?
    - How can we run java program without main()?
    - Explain that Why are the objects immutable in java?
  - Then interviewer asked me some question on DS
    - How can we Reverse a linked list ? give 2 approach
    - What is the maximum number of nodes in a binary tree of height k?

- Arrays vs LinkedList
- Sort the stack
- Find out the Kth smallest element in an unsorted array
- queue using stack
- **3rd Round(PI):** focus primarily on major Java, data structures. The interview lasted about 1 hour 30 minutes.
  - Asked me to design database of flipkart.
  - Asked me to write SUDO code using Graph data structure for this problem: supposed there are total n drives in my system. And I want to find abc.txt file. Now you supposed to print all path of that file. and it may possible that 1 drive can have multiple abc.txt file.
  - In main() I have defined the List like **List<Integer> arraylist=new ArrayList<>(100);** now I am passing this list to **void add(arrayList)** method and adding 5 elements in list. So tell me the size of list in
  main() [before and after passing list]
  add() [before and after adding 5 elements]
  - Write DB script which migrate some of fields records from TABLE_A to TABLE_B.
  - Checked vs Unchecked Exceptions in Java
  - final , finally and finalise
  - give example for abstract and singleton factory design pattern
  - Why COVIAM?
  - If you selected then What's you expectations from COVIAM?
  - What do you know about COVIAM? [read few on COVIAM product like PeopleHum and Engati]
  - Do you have any question?[Here you must ask questions as the interviewer expects that you ask some questions.]

- If you don't know about any question then don't waste much time on it.
- If you stuck anywhere by solving any problem then ask interviewer to give some hints.[no one knows everything]
- Be confident & ask more questions to interviewers whenever requires….

All the besttt…..