

## DSA:

- What are the major topics that the learner needs to prepare before an interview/ What could the topics if ignored lead to rejection in interviews?
  - All DSA Module.
  - Solve all assignments.
- How to use the Placement Preparation Document to Prepare for an interview within 3 weeks.
  - Go through revision video of DSA.
  - Randomly solve a few questions from every lecture Assignments.
- After preparation, when should they start giving contests in the Practice arena and what should be the frequency of it?
  - You can starting giving the contest right away but keep a gap of certain days before attempting the next contest.
  - In this gap reflect on what went wrong in previous contests try to improve those topics further.

## Databases & SQL:

- What are the major topics that the learner needs to prepare before an interview/ What could the topics if ignored lead to rejection in interviews?
  - Basic CRUD queries with Joins, aggregate functions, and subqueries
  - Indexing and how we can apply indexes to improve the performance of certain queries [VVIMP]
  - Certain theoretical topics like ACID properties , Normalization techniques, and transaction isolation levels
  - Schema Designing [VVIMP]
- How to use the Placement Preparation Document to Prepare for an interview within 3 weeks.
  - You should block a fixed time on a daily basis for some revision every day. Let's say 1 hr for instance.
  - First, ensure that you go through the written material or the video that is provided to ensure a complete range of topics has been covered
  - Make sure you are solving problems every day, even 1 problem every day can help you eventually solve around 20 problems.
- After preparation, when should they start giving contests in the Practice arena and what should be the frequency of it?
  - You can start giving the contest right away but keep a gap of certain days before attempting the next contest.
  - In this gap reflect on what went wrong in previous contests and try to improve those topics further.

## Module: Language / Java:

- What are the major topics that the learner needs to prepare before an interview/ What could the topics if ignored lead to rejection in interviews?
  - In this majorly all topics taught in class are important. But some of the examples can be :
    - OOPS concepts
    - Multithreading, especially Thread functions like Join, and wait.
    - Streams API and Java 8 features
- How to use the Placement Preparation Document to Prepare for an interview within 3 weeks.
  - You should block a fixed time on a daily basis for some revision every day. Let's say 1 hr for instance.
  - First, ensure that you go through the written material or the video that are provided to ensure a complete range of topics has been covered
  - Make sure you are solving problems every day, even 1 problem every day can help you eventually solve around 20 problems.
- After preparation, when should they start giving contests in the Practice arena and what should be the frequency of it?
  - You can start giving the contest right away but keep a gap of certain days before attempting the next contest.
  - In this gap reflect on what went wrong in previous contests and try to improve those topics further.

## LLD:

### Important topics for the LLD module :

- **Design Patterns** - Singleton, Factory, Builder, Adapter, Strategy, Observer, Case studies.
- Going through the class notes and appearing in contests would suffice for revision before an actual interview.
- Contest duration - 90 Mins

## HLD:

### Important topics for the HLD module:

- Consistent Hashing
- Caching
- SQL & NoSQL Databases
- Message Queues (Kafka)
- Elastic Search
- Rate Limiter
- Microservices
- Case Studies
- Contest duration: 90 Mins

## Important topics from full stack

- **HTML / CSS** - doctype and semantic tags, CSS specificity,
- **JS** - event loop, promises, closure, prototypal inheritance, questions on currying, machine coding questions
- **React** - virtual dom, hooks, performance optimizations using hooks, redux arch, machine coding
- Prep doc and contest supplement each other. allocate time for reading, and then take a contest to test the concept application part, which can start from the contest on day 1. devote 2 hours, out of which 1.5 for the contest and half an hour for reading and preparing from docs and contest solutions