

# Truminds Interview Experience

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## Round 1: Online Assessment

Platform: Hackerearth

Duration: 120 minutes

There were 19 questions:

- 18 Multiple Choice Questions  
(based on Aptitude and Logical Ability, Time Complexity , Output questions, OS, DBMS and CS fundamentals)
- 1 Programming Question

## Round 2: Technical Interview

1. Started with my introduction.
2. The interviewer asked about my projects.
3. Then CS Fundamentals were asked:
  - Types of constructors
  - Inheritance and it's types
  - Access specifiers in c++
  - If a function of a class is declared protected in the base class can we change it's visibility in the derived class?
  - Run-time polymorphism Vs. Compile-time Polymorphism
  - Singleton class and it's implementation
  - What are friend functions?
4. OS Questions that were asked:
  - Why we need Operating System?
  - How OS manages the interaction between the hardware and the users?
  - What are device drivers?
  - Questions on System Calls
  - Kernal mode Vs. User mode

- Various sections of the process(text, data, heap, stack)
  - IPC and it's Methods(Shared memory, Message Passing, Pipes, Sockets, Semaphores)
  - Discussion on pipes(named pipes and unnamed pipes)
5. Then he asked me to name some Unix commands and why it is used.
6. Questions on python were asked as one of my projects was in python:
- Different data structures in python
  - Slicing and it's need
  - How do we perform slicing?
  - How is python's list different from arrays in c++?
  - Pickling and unpickling in python
7. DSA questions that were asked:
- What is Linked List?
  - In what situations we would prefer array over linked list?
  - Middle element of a linked list
8. He asked me the domain I would like to work in.
9. He later asked me where I currently live and what location from Gurgaon, Hyderabad and Bangalore would be most comfortable to me.
10. Lastly, he asked me whether I have any questions or not.

### **Round 3: Leadership Discussion**

1. Started with my introduction.
2. Discussion on one of my project
3. CS Fundamentals:
  - Virtual Functions in C++
  - Static Keyword in C++
  - Why do we need Classes even when we have structures?
4. You are provided with the head pointer of the singly and the doubly Linked List and the reference pointer of a node to be deleted. In which case the deletion is effective and why?
5. OS Questions:
  - Virtual Memory in OS
  - Paging Vs. Segmentation

- Various methods for Inter Process Communication
  - Pipes Vs. Sockets
6. What are AVL trees, if we have 1000 nodes in an AVL tree so approximately how many nodes will be searched to delete the required node.
7. Various Unix Commands (top, touch, etc)
8. DBMS Questions:
- What is a Primary key?
  - What is a Composite key?
9. Networking Questions:
- What is MAC address?
  - What is IP address?
  - In what layers of the OSI model MAC address and IP address are present?
  - How do we get MAC address from IP address?(ARP)
  - Working of ARP.
  - IPv4 Vs. IPv6
10. Why Truminds?
11. Lastly, he asked me whether I have any questions or not.

### **TIPS:**

1. Prepare very well for core subjects.
2. You should know everything you have written on your resume.
3. Work hard and believe in yourself.

**ALL THE BEST!**