

# InfoEdge Interview Experience

## Round 1: Online Assessment

20min: 15 aptitude questions (time and distance, syllogism, Logical reasoning)

20min: 20 output question, DSA

This round is doable if you have fast calculation skills.

## Round 2: Technical Interview 1 (1 hr)

She asked for my introduction. Brief about my projects.

Then she asked DSA questions:

1. Given an array of integers, arrange it such as all negative numbers are on left and positives are on the right side.  
Ex: Input: [1,2,-10,3,-6]  
Output: [-10,-6,1,2,3], order does not matter  
I gave 2-pointers approach - TC:  $O(n)$ , SC:  $O(1)$
2. 2 sum problem, she asked me to write a code and execute it somewhere, I opened an online editor and solved the problem using hashmap(hint: array is not sorted- I asked this specifically).
  - a. I was unable to run the code as I forgot one of the method names. I tried till the end but couldn't execute it.
  - b. The algo was correct so I explained the dry run well.
3. How to do indexing efficiently in dbms.

**Learning: Having a positive attitude and trying your best matters more than giving all the answers.**

## Round 3: Technical Interview 2 (1 hr)

1. I explained my projects in detail.
2. DSA questions on online IDE
  - a. Find duplicate numbers in a given array: I explained all the approaches from naive to optimal
  - b. 2-sum problem: this time I was able to run the code correctly.
  - c. LRU cache: discussed its implementation in detail. I explained the basic issues and solutions to that: random access,  $O(1)$  searching.
3. DBMS: about 10 different sql queries, including top(), subquery, groupby, order by. What is normalization, given a table normalize it.
4. OS: Multithreading: I explained this with reference to my project i.e. with example.
5. OOPs: Encapsulation vs. Abstraction, is-a vs. has-a relationship, static keyword, Multiple Inheritance wrt. Java, problems related to it and its solution, singleton class.
6. Try-catch block, what is an exception.

**Learning: Revise the basics well, try to give crisp definitions, give simple examples. Smile throughout.**

### **Round 4: Technical Interview 3 (30 min)**

1. What is hashing then a simple Hashing problem, to replace a key with value in a string. Catch is that we needed to use StringBuilder. She shared a link, I had to write the complete method with correct syntax.
2. Puzzle: There are 3 switches outside a room and a bulb in the room, I can go inside the room just once, and I have to find which switch belongs to that bulb, I tried solving it reduced the problem, it took me 5 min after that I asked that there must be some external condition, she told me that the bulb gets heated when switched on. After the hint I was able to reach the solution.  
Solution:
  - a. We will turn on the first switch and wait for 2 min then turn it off
  - b. Turn on the second switch and go inside the room
  - c. If the bulb is lit: 2nd switch
  - d. If the bulb is off and cool: 3rd switch
  - e. If the bulb is off and hot: 1st switch
3. Concurrent hashmap: I told her I haven't worked with these and will surely see to it.
4. OOPs: static keyword with example and why to use them.

**Learning: Don't panic if you can't solve a problem, ask for hints and keep telling them the approach you are thinking of.**

### **Round 4: HR Interview (20 min)**

1. Brief introduction.
2. How is life these days (related to pandemic situation).
3. How were the previous rounds? She asked me to rate myself in all the three rounds.
4. From where did I get to know about InfoEdge and why I want to work with them?
5. How do I keep up with the latest tech news?
6. Any internships I have done?
7. After that I asked her questions regarding work culture, training, and how is technology assigned to a fresher?

**Learning: Keep it interactive, participate fully, show activeness, ask relevant questions, be honest and practice the mostly asked questions before the round, it will help a lot.**

**Note: Try to look calm, never stop trying, ask as many questions you think you need to ask while solving the problems, keep a smile on your face.**

**PS: My interviewers were too sweet.**

**Result: Selected**