

Thoughtworks Interview-Experience

Round 1: (Online Coding Round)

- Duration: 1 hour
- Platform: HackerEarth
- No of Questions: 2

Q1). Minimum Subarray sum.

Q2). Remove special characters from the string.

Round 2: (Code Pairing Round)

Hands-on Programming, you can use your laptop.

- Duration: 2 hours 15 minutes
- Platform: Any IDE
- No of Questions: 1
- Requirement: OOPS Concept

Problem Statement:

Supermarket Problem: Given a list of products like this: Bread, Rice and Sugar & there are two supermarkets: Supermarket 1 and Supermarket 2. Below are the prices in each supermarket:

Supermarket 1

Bread - 15

Rice - 60

Bread - 40

Supermarket 2

Bread - 10

Rice - 62

Bread - 41

Input: If you want to buy following quantities:

Bread - 2 Nos

Rice - 10 Nos

Sugar - 15 Nos

Output: Find the supermarket which will provide me the cheapest products for my input assuming that you can split the buying process into 1 trip for each supermarket, ie. you can go to both so as to maximize your buying power:

Bread - Supermarket 2

Rice - Supermarket 1

Sugar - Supermarket 1

Procedure: Each student will be allotted a mentor. You will be asked to thoroughly read the problem statement in the first 10 minutes. If you have any doubts, you can discuss it with the mentor.

Then code the given problem statement using OOPS Concept (OOPS is must, it increases your chance to get shortlisted for the next round). Once you are done coding, mentor will check your program, then ask you to add more constraints (7-8 new constraints). Once this is done, you might be asked to refactor and optimise your code(if required).

Round 3: (Technical Interview)

Duration: 1 hour

- Thorough discussion on all 3 projects that I have mentioned in my resume and many questions were asked from projects only. (About 30-35 minutes)
- Given a random pointer on a node of a linked list, delete that particular node. What if this node is the last node. How to implement this singly linked list, doubly linked list and circular linked list. What if *previous* node is to be deleted.
- How a URL is resolved? (Domain Name Resolution)
- What is a Segmentation fault?
- What is Paging technique. How to reduce no of page faults.
- **Puzzle:** Three Employees want to know the average of their salaries. They are not allowed to share their individual salaries.
- Then there was a brief discussion on my interests and something which is not mentioned in my resume. (approx. 10 minutes)

Round 4: (Social and Economic Justice Round)

Duration: 30 minutes

- This round was based on the *3rd pillar of the company*. There was a discussion on Women Empowerment, Reservation in India, Triple Talaq, Equality etc.
- In this round, they want to see whether the candidate has his/her opinion on social issues.
- **Tip:** Don't be biased and try to put your opinion clearly to the interviewer.

Round 5: (Leadership + HR)

HR and situational based questions.