

Kritima Kaushal

2022 Batch

Placed at Flipkart

How did you prepare?

Top topics you prepared? (Mention at least 5 with comma separated)

Data Structures and Algorithms: Dynamic Programming, Graphs, Arrays, Trees (BST & Non-BST), Greedy Approach, Heaps, LinkedList, Recursion & Backtracking, Stack and Queues, Searching and Sorting, Maps, Tries

OOP(JAVA): 4 Principles of OOP with real life example and code example, Constructor, Method Overloading and Overriding, keywords-this, static, super, etc.

Java: Strings, Exception Handling, Multithreading, Collections, JDBC

Database Management System: Entity Relationship Model, Relational Model, Relational Algebra, Functional Dependencies, Normalization

Preparation Tips (Mention at least two tips line separated)

Tip 1: Make your basics strong don't run after new technologies as a fresher company wants your good command on DSA.

Tip 2: Focus more on competitive programming to get into a good organization don't indulge too much in development because the first step to reach to the interview round is to clear the coding round.

Tip 3: Companies like Flipkart, Myntra conduct only problem-solving rounds. To get through them practice not only solving coding questions but also how to convey your thoughts and approach while solving them.

Tip 4: You cannot sit quiet in problem solving rounds keep conveying whatever is going on in your mind be it right or wrong. This way interviewer can help you with the right direction and hints.

Tip 5: Practice competitive programming on Codechef and Codeforces and dsa on GFG/InterviewBit (Both are important).

How did you apply?

Where did you apply?

On Campus

Any eligibility criteria?

No Criteria

Resume Tips (At least two)

Tip 1: Don't mention things in the resume that you don't have full command on you should have complete knowledge of what you mention in your resume

Tip 2: Make your resume short and if you mention projects in your resume be clear about the details of the project even if you have done that in group because the interviewer will surely ask from it.

Tip 3: Try to make it one page long and use standard resume templates from overleaf.com

Tip 4: Order – Education, Work Experience (If any), Technical Skills, Projects, Achievements, Hobbies and Interests (If space left)

Why do you think you were shortlisted?

I was quick to understand the problem and started coming up with approaches and conveyed whatever came to my mind while solving. While discussing with the interviewer I kept trying to optimize the solution without them asking to do that. I was quick to code the approach.

Number Of Rounds**How many rounds were there?**

4

First Round Details

Round Type: Coding Round

Difficulty Of Round: Medium

Platform: SHL Amcat

Location of Round: Online

Date of Round (approx.): 02-09-2021

Duration of Round (in minutes): 90 minutes

Description of Round

The test was active on (Sept 2, 2021) from 8:00 AM to 10:00 AM. The duration of the test is 90 minutes.

It was a webcam proctored test. It had 3 coding questions where you can switch between questions. Each question had some visible test cases and multiple hidden cases which you can see if you code passed or not but cannot see the actual test case.

First question was an array question which can be done in single array traversal but the tricky problem language will tend you to use other data structures so do think of optimization before writing code.

Second question was a dynamic programming question similar to Knapsack.

Third question was too a dynamic programming question an application of Longest Increasing Subsequence.

Dynamic programming solutions should be tabular approach in order to pass all test cases.

I passed 6/8 testcases in 1st, 15/21 in 2nd and 14/14 in 3rd question.

Why were you passed/rejected for this round?

I passed this round because I solved all three questions partially/completely in stipulated time.

Tips/Answers for Solving these Problem/Problems

Tip 1: Do not miss practicing graph and dp questions on gfg and interviewbit.

Tip 2: For Dp youtube – Aditya Verma Dp playlist, Sumeet Malik Dp playlist, Tushar Roy

Tip 3: Solve all standard questions company wise.

Second Round Details

Round Type: Problem Solving Round

Difficulty of Round: Medium

Platform: SHL Amcat Smartmeet

Location of Round: Online

Date of Round (approx.): 03-09-2021

Duration of Round (in minutes): 45-60 minutes

Description of Round:

The round started by my introduction followed by interviewer's introduction after which he proceeded with first problem.

First Problem – Story based problem basically Maximum contiguous subarray with Unique Strings. First step is to make sure you understand the problem completely and then I told how I would want to solve the problem. After some discussion and improvements, I was asked to write pseudocode. At last, I calculated time and space complexity. The problem was solved using two pointers approach and HashMap.

Time Complexity – $O(N)$

Space Complexity – $O(N)$

Second Problem- Kth Largest in BST (Standard Question). After discussion I wrote pseudocode and told time and space complexity. Traverse the tree in reverse inorder manner and keep counting and comparing with K.

Time Complexity – $O(N)$

Average Time Complexity – $\log N$

Space Complexity – $O(1)$

Do ask relevant questions at the end of interview like Job role, etc.

Third Round Details

Round Type: Problem Solving Round

Difficulty of Round: Medium

Platform: SHL Amcat Smartmeet

Location of Round: Online

Date of Round (approx.): 03-09-2021

Duration of Round (in minutes): 45-60 minutes

Description of Round:

The round started by my introduction followed by interviewer's introduction after which he proceeded with first problem.

First question – An array of weights (integer) given, divide into N contiguous segments such that the maximum weight out of all weights is minimum.

Example – [1,2,3,4]

$N=2$

One way of partition:

[1,2] and [3,4]

Sum of weights of partition – 3 and 7 respectively

Maximum sum – 7

Other way of partition:

[1,2,3] and [4]

Sum of partitions – 6 and 4 respectively

Maximum sum – 6

Better solution: Second way of partition is better since maximum weight out of all partitions is minimum out of all ways possible.

Started with brute approach but was wrong at initial approaches after which interviewer directed me to the right way. He helped calculate range of possible answers which will be maximum element of array till sum of all elements of array. Check all values from start of the range if they can be a possible answer or not. Interviewer hinted at a linear search on all these values which I later optimized to binary search.

Time complexity – $\log(\text{sum}) * N$ Here, sum is sum of all weights(elements) of array

Space complexity – $O(1)$

Second question: Rotten oranges (Standard Question) After discussion wrote pseudocode and explained my BFS approach to handle day wise frame as required in question.

Time complexity – $O(m * n)$

Space complexity – $O(m * n)$

Also explain worst time and space complexity situations – here when all oranges are rotten.

Fourth Round Details

Round Type: Hiring Manager Round

Difficulty of Round: Medium

Platform: Google Meet

Location of Round: Online

Date of Round (approx.): 03-09-2021

Duration of Round (in minutes): 45-60 minutes

Description of Round:

I was asked to introduce myself where he picked up the conversation from my 6-month internship experience at Bajaj Finserv Health. I told about my responsibilities at Bajaj and the tech I was working on which was Salesforce on which we had a discussion for around 20-25 mins. He tried to check my behavior at work place and asked questions like –

1. How are we assigned work items?
2. What challenges we face and how we get through them?
3. If you have two kind of projects 1. For which we don't know the outcome and impact 2. A big project which has great impact on Flipkart. Which one will you choose?

Try to answer all questions with confidence and positive attitude. Be prepared with Flipkart core values, company's evolution, Flipkart's latest projects which went live. Your strengths, weaknesses and projects are other things with which you should be prepared beforehand. Ask the interviewer related questions about work at Flipkart to show interest in their company.