**Aptitude and Coding Round**

The coding round had two questions.

The first problem was quite simple and everybody was able to solve it.

The second problem was difficult and no one was able to come up with a solution

Aptitude questions contained questions related to Java SQL and basic C/C++ knowledge and programming.

Naturally the selection came down to doing well in the mcqs.

A total of around 150 students sat for the test out of which 19 were shortlisted.

**Interview Rounds**

The list of selected students was sent around 8 in the evening and the interviews were conducted the immediate next day. The HR came and explained the job profile and employment opportunity at Amazon and explained the format of the interviews. There were two technical rounds and no HR rounds.

**First Round**:

The interviewer in the first round was very clear on what he wanted. He told me I’d be selected for the next round if I could solve the 2 DS questions he’d pose. The interviewer was very nice to me and cleared all doubts regarding questions.

**Q1.** The first question was to find the longest subarray containing only positive numbers in an array containing positive and negative numbers.

The question was quite easy so you had to give the O(n) solution and account for all corner cases.

**Q2.** The second question was the rat in the maze problem

<https://www.geeksforgeeks.org/rat-in-a-maze-backtracking-2/>  
The difference was that the position of the rat/source and the cheese/destination was not fixed and I had to find the number of paths.

I solved these questions and going into the second round was quite sure about getting selected into the next round

9 people were selected into the second round.

**Second Round:**

The second round was a bit tougher than the first round. The interviewer started with asking about projects and since I had mostly web projects he asked me basics about DNS, HTTPS, certificates and hosting and stuff which were easy for me to answer.

Next he asked me to explain the booting process of the computer.

<https://www.geeksforgeeks.org/what-happens-when-we-turn-on-computer/>

Next he moved on to Java and asked me about static and the main function and gave me a code and asked for the output.

The next question was about what happens when a code is compiled, basically asking the stages of a compiler.

<https://www.geeksforgeeks.org/compiler-design-phases-compiler/>

<https://www.geeksforgeeks.org/compiling-a-c-program-behind-the-scenes/>

I named all of them but didn’t know most of the functions so it’s fine if you did not know this question.

The next question was about games and dlls. We had a conversation about our favourite games and what roles dlls play in games. This question was asked because I had written a Unity project in my resume.

The last question was a tree based question was to print the middle level of a perfect binary tree without finding the height.

<https://www.geeksforgeeks.org/print-middle-level-perfect-binary-tree-without-finding-height/>

Extra:

So after my internship my immediate org thought it was a good idea to take an informal interview for the interns. So 6 interns including me gave this interview. The questions asked were

1. Topological Sort of a Graph: <https://www.geeksforgeeks.org/topological-sorting/>
2. Next greater element: <https://www.geeksforgeeks.org/next-greater-element/>
3. K smallest numbers in a stream: <https://www.geeksforgeeks.org/find-top-k-or-most-frequent-numbers-in-a-stream/>
4. Finding a loop in a linked list: <https://www.geeksforgeeks.org/detect-loop-in-a-linked-list/>
5. Next greatest frequency element: Similar to next greatest element only difference is you have to find the element with greater frequency.
6. Swap siblings at all kth levels of a binary tree: <https://www.geeksforgeeks.org/swap-nodes-binary-tree-every-kth-level/>
7. Serialize a binary tree: <https://www.geeksforgeeks.org/serialize-deserialize-n-ary-tree/>
8. Rotten oranges: <https://www.geeksforgeeks.org/minimum-time-required-so-that-all-oranges-become-rotten/>
9. Trapping Rain Water: <https://www.geeksforgeeks.org/trapping-rain-water/>

These are all the questions I can remember. For the interview make sure your DS is strong enough for you to solve any question asked especially trees, arrays and graphs are most asked questions.