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# Amazon Interview Experience | Set 212 (On-Campus)

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## Online Coding Round

Time 1 hour 30 minutes.

- 1) [Given an array of numbers, Rearrange the numbers to make the even and odd numbers alternate. If any one type is in excess, let it come in the end.](#)
- 2) [Given a binary tree, change the value of the node by the sum of the values of its children.](#)

I completed both the programs, first one passed 7 test cases, second one passed all test cases. I was shortlisted for the interviews

## 1st Round F2F (Technical)

Asked what was my favorite project among the ones i have mentioned in my resume. Then he asked to explain Project, and then he asked few questions regarding it.

He asked 2 questions. One was regarding linked lists. I forgot what those questions were.

## 2nd Round F2F (Technical)

[stack using 2 queues.](#) I implemented and showed, he was happy.

[Given a matrix. Each cell is either marked with a \\* or nothing. One cannot go into the cells that are marked by a \\*. Given 2 points a and b in the matrix, Find out if point b is reachable from point a.](#)

I gave a solution solution, but i had missed marking the cells visited. He pointed out that it will be an infinite recursion. So i said i will mark it visited. He then told me to code it. I did. He was satisfied with it.

Robot problem. Dynamic programming. I somehow solved it, he then asked for the code. I wrote it. He tried to understand himself, but he wasn't able to. So i made him understand, he was happy and satisfied with it.

## 3rd Round F2F (Technical)

Questions on OOPs concept. Asked what a singleton class is. I answered, then he asked how can it be implemented in C++. I was weak in the C++ language, so he gave hints. I tried but he was not satisfied with my answer.

Then he asked to a question regarding trees. Given a binary tree, you have to connect all the nodes in each level through extra pointers.

I gave an approach using queue. He then asked how to do with constant space. I tried, but i had forgotten the algorithm. He tried giving hints, but i wasn't able to solve.

## 4th Round F2F (HR + Technical)

He started off by asking how was the other interviews. Then he asked the typical "Tell me about yourself".

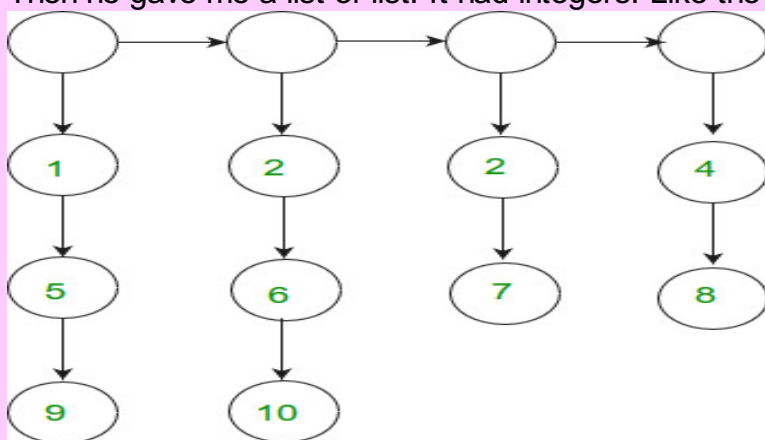
He asked me little about my favorite project. I selected the same one which i explained in the first

interview.

Next he asked, Given just a page of a Dictionary. It can be from anywhere, middle, end or start. The dictionary is for a language that one doesn't know. You have to find out the order of the alphabets, which one comes before and which one comes after. I started with an approach using generic tree. He asked me why can't graph be used. I thought a little and agreed, and started using graph. I explained him the inconsistencies that can occur. Later after few minutes of discussion, he told me, suppose he gives me a graph with letters in place of nodes, and says to find out the order of the alphabets. How would i go about doing it. I mentioned topological sort, but i said i don't remember the algorithm properly. He gave a little hint, that reminded me, and i solved it.

He gave a scenario. Suppose you type `www.amazon.com` and hit Enter. What goes on in the background after that. I gave a detailed explanation with Network layers, routing, CDN, Content Caching. I missed out NAT, so he asked me what it was and how it will be used.

Then he gave me a list of list. It had integers. Like the one shown in picture below (in Attachment).



[He told me to print 1, 2, 3, 4](#) I did it using loops, But he wanted to optimize it, and said that i can modify the list if i wished. So i thought a little and got the idea. He asked me to write the code. I wrote, he saw and said there was a bug, but he had missed something, i explained him, so he was satisfied with the code.

Only 7 people were there till the last round. The interviews were over by 10:40pm. They took 3 hours to come to the final list. They said that we all did very well. At 1:30 night they announced 3 names. I was not selected. All in all it was a good experience, but i was a little sad after the results came out.

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