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Amazon Interview | Set 5

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I've attended the Amazon interview in Hyderabad, This was kindle team, I got rejected but I'd like to share the experience, thought of giving back something to geeksforgeeks, which was a great reference for me.

Written test

Very straight forward

1. [Given a linked list, sort without extra space.](#)

I wrote merge sort

2. [Methods to serialize & deserialize a tree](#), must complete the below 2 methods. File serialize (node *root) & node * deserialize(File f)

Cleared the written test, I was told this after 1:30 Hrs.

First round

1. [Find diameter of a tree](#), I've seen the question here, But i didn't recollect.. So solved my self..in some primitive way which made me write code with difficulty.
2. [Find a lowest common Ancestor](#), The variation was the tree was just a Binary Tree, Not BST, It was interesting to solve as i know only BST variation.

Second round

1. Given an array randomize it,
2. Write all possible permutations of a array of size z.
3. [Given a 2-D array of 0s and 1s, find islands in it](#). An Island is 1s together. E.g (below there is U shaped island)
0100001
0100001
0100001
0100001
0111111
4. [Write a method to check if a tree is BST or not](#). I wrote some stupid mistake in this code, probably that gave away my interview.

Third round

1. So many HR like questions. Why Amazon, Why u want to leave, Why u dont want to stay, what did you do to stay back, biggest challenge, worst mistake, etc etc.. blabbered something.
2. [Write a method that will test a function which merges 2 sorted linked lists](#).
3. Design a system, which can convert books from one format to another

Fourth Round

Only one design question: Design a email client.

After 4 days and lot of anticipation, I got a mail saying I got rejected, Was wondering what they exactly look for.

Thanks to muzicisgod for sharing Amazon Interview Questions. If you like GeeksforGeeks and would like to contribute, you can also write an article and mail your article to contribute@geeksforgeeks.org. See your article appearing on the GeeksforGeeks main page and help other Geeks.

[All Practice Problems for Amazon](#) !

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