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Amazon Interview Experience (On-Campus)

- Difficulty Level :\nHard
- Last Updated :\n12 Jan, 2022

Amazon visited our campus for FTE recruitment in Aug, 2019.\xc2\xa0

Round\xc2\xa01(Online Screening Round): There were different sets of questions. Each set had two coding questions and mcqs based mostly on c/c++.\xc2\xa0 My coding questions were 1) https://www.geeksforgeeks.org/counting-inversions/ and 2) finding the number of derangements.\xc2\xa0

Round 2(F-2-F): Started straight away with ds algo stuff. First question:\xc2\xa0https://www.geeksforgeeks.org/k-maximum-sum-combinations-two-arrays/. Second question was based on topological sort of a directed graph. I had to write code for both questions. Attention was given to code quality and edge cases.\xc2\xa0

Round 3(F-2-F): Again, the focus was on ds algo.\xc2\xa0

- At first, was given a stream of transactions and the task was to find the kth most expensive transaction. A few approaches were discussed, and then I had to code up the best approach I could come up with.\xc2\xa0
- The second question was\xc2\xa0https://www.geeksforgeeks.org/find-number-of-islands/. Had to code it up. The third question was a modification on finding the intersection between two linked lists. There were other small questions in between, specially pertaining to Priority Queue and its implementation.\xc2\xa0
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Round 4(F-2-F): Given a hierarchical structure, where a node calls another node for a service, and that node may call other node(s) for a service, find the longest time taken for two \xe2\x80\x98leaves\xe2\x80\x99 of this hierarchical structure to communicate with each other. This was just a modified version of finding the longest leaf to leaf path in a tree-like structure.\xc2\xa0

- The second question:\xc2\xa0https://www.geeksforgeeks.org/nuts-bolts-problem-lock-key-problem/.\xc2\xa0
- 3rd question was finding the largest island in a grid.\xc2\xa0
- There were small other questions as well, like the previous round.\xc2\xa0
- Had to code everything.\xc2\xa0

Round 5(Bar Raiser):\xc2\xa0

- Discussion about CV.
- Why I am sitting for coding profile, being from a non CS/IT background.\xc2\xa0
- Then, was asked to implement LRU Cache. Special notice was taken on the code.\xc2\xa0
- Then, was asked the trapping rain water problem, but do it with O(1) space and single pass. Had to code up the solution.\xc2\xa0

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