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Amazon Interview Experience | Set 239

- Difficulty Level :\nMedium
- Last Updated :\n02 Jul, 2019

I recently attended an interview with Amazon at WTC, Bangalore

Round 1 \xe2\x80\x93 Written (write code for any 2 out of 3)
1. Given an array of elements which is first increasing and then decreasing, find the maximum element in the array.
Points where based on how we handle the corner cases like what if we have only two elements in the array.
2. Given a string of parentheses, find if the expression is balanced or not ?
3. Given a binary tree, find the level which has maximum number of nodes, consider root as level zero
People were asked to write 2 or 3 lines about the approach they follow, the space and time complexity, data structures used to solve the problem

I attended 1 and 3 \xe2\x80\x93 scored 7/10, on my further analysis I had failed to handle the corner cases in question.3

Round 2 \xe2\x80\x93 Face to Face discussion
1. Write program to escape URL string, say you are given a URL string, you have to replace
\xe2\x80\x9c(space)\xe2\x80\x9d -> \xe2\x80\x9c%22\xe2\x80\x9d
\xe2\x80\x9c(double quotes)\xe2\x80\x9d -> \xe2\x80\x9c%d\xe2\x80\x9d

say http://www.google.com/hello world\xe2\x80\x9d -> http://www.google.com/hello%22world%5d

what is the space and time complexity, can we accomplish the solution with only one traversal of the string ?

2. Given a million of points(x,y) in a two-dimensional plane and a utility function to compute the distance from Origin, how will you return the smallest k distances from the Origin.

Answer : Use Comparator and sort the array, return first K elements from the sorted list
Follow up: why do we need to keep all elements in the sorted list, how can we maintain only k elements in the sorted list ? Time, space complexity of the solution. time complexity of the problem.

Round 3 \xe2\x80\x93 Face to Face discussion

3. Implement hash map of your own
Follow up:
1. How to handle a collision situation
2. How can we reduce the time complexity of rehashing process ??

Gave my best in this round but couldn\xe2\x80\x99t clear it.

Amazon people were friendly all during the process.

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the topic discussed above

All Practice Problems for Amazon !

My Personal Notes\n*arrow_drop_up*

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