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Amazon Interview Experience | Set 149 (On-Campus for Internship)

- Difficulty Level :\nMedium
- Last Updated :\n26 Jun, 2019

Round 1 (Online):
It had 20 MCQs and 2 coding questions for 90 minutes.\xc2\xa0Questions were from Operating Systems, Data structures, Aptitude etc. Most of them were exactly same as on\xc2\xa0www.geeksquiz.com.\xc2\xa0

In MCQs there was \xe2\x80\x93 0.25 marking for every wrong answer and +1 for right answer. Coding questions were of 10 marks each.

Coding Questions:
Q1. Find the first non-repeating character in a string.
Q2.\xc2\xa0You are given a phone keypad like following diagram, where each character corresponds to a digit mentioned in the same box.

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You are given n strings and you have to find their decimal representation. You have to print the string and corresponding decimal representation in descending order. For example,\xc2\xa0if you are given \xe2\x80\x9camazon\xe2\x80\x9d then its corresponding decimal notation will be 262966.\xc2\xa0If more than one strings have same decimal notation then you have to print them in the order in which input is given.\xc2\xa0The given string consists of lower case alphabets only.

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Test Case 1:\r\n5\r\nAmazon\r\nMicrosoft\r\nFacebook\r\nAa\r\nBb\r\n\r\nOutput:\r\n642767638  microsoft\r\n32232665  fa
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Round 2 (Face to Face):

Q1.\xc2\xa0Given a linked list, write a function to reverse every k nodes.

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Example:\r\nInputs:  1->2->3->4->5->6->7->8 and k = 3 \r\nOutput:  3->2->1->6->5->4->8->7 \r\n\r\nInputs:   1->2->3->4-
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Q2. Given an array arr[] of integers, find out the maximum difference between any two elements\xc2\xa0such that larger element appears after the smaller number\xc2\xa0in arr[]. Print the indices of the two elements also.

Example: If array is [2, 3, 10, 6, 4, 8, 1] then returned value should be 8 (difference between 10 and 2). If array is [7, 9, 5, 6, 3, 2] then returned value should be 2 (difference between 7 and 9).

Round 3 (Face to Face):

There was brief introduction. Then he asked some questions from my resume.\xc2\xa0He asked me to tell about a project which I loved the most and felt proud after doing it successfully. He was interested in knowing the details of the implementation in that project.
After that there were 2 coding questions:
Q1.\xc2\xa0Given a string, find the longest substring without repeating characters. For example,\xc2\xa0the longest substrings without repeating characters for \xe2\x80\x9cABDEFGABEF\xe2\x80\x9d are \xe2\x80\x9cBDEFGA\xe2\x80\x9d and \xe2\x80\x9cDEFGAB\xe2\x80\x9d.
Q2.\xc2\xa0Given a log file of page visits of a website by different users for a day.

Entry in the log file is like this:
User 1 visited Page 4
User 3 visited Page 2
User 7 visited Page 9
.
.
.

Design an efficient data structure which supports queries like the following:
Which page was visited by exactly 2 users in day?
Which page was visited by only one user exactly 2 times in a day?
Which page was visited by \xe2\x80\x98User 3? more than 5 times in a day?

In 2nd and 3rd round, we had to write code on paper.
The overall interview experience was quite good. They wanted the most optimal solutions and gave hints to think in that direction.
I was finally selected \xf0\x9f\x99\x82
Tips:

1. First explain the approach, then start coding.\xc2\xa0
2. Try to interact with the interviewer while coding on paper. They don\xe2\x80\x99t want to get bored while interviewing.
3. In case of any doubt, clarify it asap.
4. Never ignore the hints given by the interviewer.
5. Be 100% honest.

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All Practice Problems for Amazon !

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