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## Amazon Interview Experience | On-Campus

- Last Updated : 21 Aug, 2019

### Coding Round:

- 20 mcq questions on C, C++.
- 2 coding question 1) Given infix equation in string, return the value of expression Ex.  $(2+3)*5$  will return 25 2) find mean median mod of a given array

### Round 1:

1. I was given an array with some numbers which denotes the denomination of coin we can use, and then i was asked to find out to make a sum using the available denomination so that number of coins used is minimum and also print the combination of coins. <https://www.geeksforgeeks.org/find-minimum-number-of-coins-that-make-a-change/>
2. This question was easy one . I was asked to return true if two given string having edit distance equal to or less than 1 otherwise false.
3. I was asked to return last Kth node in a linked list without using extra space and recursion. I given the solution which used two traversal of the linked list but i was asked to do this only with one traversal, then i gave him the solution with two pointers. <https://www.geeksforgeeks.org/nth-node-from-the-end-of-a-linked-list/>

### Round 2:

1. This question was to find the maximum distance between any two leaf node in a binary tree. <https://www.geeksforgeeks.org/print-longest-leaf-leaf-path-binary-tree/>
2. This question was little bit hard. The question was that there is a mad scientist who has various solution. I was given an array that contains the volume of each solution. The scientist can mix any two adjacent solution. let's say two adjacent solution having volume a and b then the resultant solution will produce smoke volume of  $(a*b)$  and liquid of  $(a+b) \% 100$ . Now i was asked to find a way such that all over smoke produced is minimum. Hint: Use same approach as chain multiplication.
3. Last question of this round was to convert a source string to target string such that at any time you can change only one alphabet of the string and resultant string (at each alteration) must be present in a dictionary which was provided at the beginning. I had to find the minimum number of alteration. I gave him a bfs approach.

### Round 3:

1. I was asked to print to node of a binary tree in reverse zig zag order.
2. The second question was to tell number of islands present. 1 represents land while 0 represents water in the given matrix. adjacent 1s comes under single islands. <https://www.geeksforgeeks.org/find-number-of-islands/>
3. After that they asked a nested sql query. and then asked about types of join in dbms(inner and

outer).

#### Round 4(bar raising):

1. I was given two strings one contains only alphabets and another contains alphabets, dot(.) and star(\*). dot represents any one character and a star can represent any number of alphabets including 0 also. and I had to check whether both string match or not.
2. At last we talked about my project, he asked what i had done during my internship, and what challenges i faced during that.
3. Then he asked some question on Operation System including demand paging and thrashing.

And, I got selected.

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