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Amazon Interview | Set 9

- Difficulty Level :[Expert](#)
- Last Updated :28 Apr, 2017

How did it start?

I completed and submitted the 4 programs at the link: <https://amazon.interviewstreet.com/challenges/dashboard/#problems>

Later on I came to know that the recruitment through this link is over. So I contacted a few of HR persons at Amazon, and I got a new link for online programming test.

Online Programming Round: (5 methods, 2 hours)

1) A sentence is given which contains lowercase English letters and spaces. It may contain multiple spaces. Get first letter of every word and return the result as a string. The result should not contain any space. Complete the following method:

```
static String getFirstLetterWord(String text) { }
```

2) Given an array. Iterate it for the given number of times. And then return the summation of the resultant elements.

Ex: Array is { 1,2,5,6}, N=2

After 1st iteration: {2-1, 5-2, 6-5}={1,3,1}

After 2nd : {3-1, 1-3}={2,-2}

Sum is 2 + (-2) = 0

If only one element remains in the array, the element remains the same after applying the iteration. Complete the method.

```
static int iterateSequence(Vector<Integer> a, int N) { }
```

3) Find Nth largest element in the BST. Complete the method.

```
static int nLargeBST(Node root, int N) { }
```

Given that

```
\n\nclass Node\n{\n    Node left, right;\n    int data;\n    Node(int newData)\n    {\n        left = right
```

4) Swap adjacent nodes in the linked list. Change the links, not the data. Complete the method.

Ex: 1, 2, 3, 4

o/P: 2, 1, 4, 3

ex: 1,2,3,4,5

op: 2, 1, 4, 3, 5

```
\n\nclass Node {\n    Node next;\n    int val;\n}\n\nstatic Node swapAdjacentNodes(Node head) { }
```

5) Find length of the Longest-Increasing-Subsequence.

e.g.1.

i/p: 1, 2, 3

o/p: 3

explanation: the sequence is increasing

e.g.2

i/p: 4,5,6,7,8,1,2,1,2,3,5,4,6,7,8,9,0,6,7

o/p: 8

xp: 1,2,3,4,6,7,8,9

e.g.3

i/p: 1,2,9,4,5,10,7,8

o/p: 6

xp: 1,2,4,5,7,8

e.g.4

i/p: 20, 3,22, 5,50, 34, 49, 91,110

o/p:6

xp: 20,22,34,49,91,110

OR

3,5,34,49,91,110

Complete the method.

```
static int lengthLIS(Vector<Integer> sequence) { }
```

Telephonic Interview 1:

1) A M x N matrix, filled with 0s and followed by 1s. Find the row which contains minimum number of 0s. E.g.

0 0000 1

0 0 1 111

The answer is 2nd row. (Row index: 1)

3) Given an array of size N, move the first d elements to its last.

- output: {3, 4, 5, 1, 2}

1) Given a BST, find the node which contains the value which is equal to (or lowest greater than) the input value.

3) Given a point P and other N points in two dimensional space, find K points out of the N points which are nearer to P.

- o/p: 45, 33, 5, 34, 78, 10

The array might not be sorted. I have taken sorted array for simplicity.

Thanks to **Hitesh** for sharing Amazon Interview experience. 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.

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