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## Microsoft Interview Experience | Set 141 (Off-Campus \xe2\x80\x93 Online Coding Test for IDC)

- Difficulty Level :[Medium](#)
- Last Updated :06 Nov, 2017

The online test was conducted on CoCubes on 2017, 5th November. The test was webcam enabled to avoid any kind of cheating. You cannot open any other tab or minimize the window. It consisted of 3 coding questions.

**TIME LIMIT: 75 minutes**

(\*) Marks(Qn-1) = 2

(\*) Marks(Qn-2) = 3

(\*) Marks(Qn-3) = 5

**Question 1:** Write a function which accepts an integer array and its size and modifies the array in the following manner:

\r\n1) If the elements of index i and (i+1) are equal then, double the value at index i\r\nand replace the element at i

**Question 2:** Write a [function which accepts an integer array and its size and returns the maximum index difference](#) i.e. (i-j) such that array[i] < array[j] and i < j.\nIf there is no such case, return -1 .

\r\nInput: 2 0 3 5 6 1\r\nOutput: 4\r\n\r\nThere was only one test case given which is mentioned above. But I am provid

**Question 3:** Write a function which accepts the root of a tree, and returns a Linked List which contains the leaf nodes of the tree from left to right order.  
Assumptions:

\r\n(\*) Structure of the node of tree is as follows:\r\nstruct TreeNode\r\n{\r\n int data;\r\n struct TreeNode\* l

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