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## Amazon Interview | Set 52 (For Internship)

- Difficulty Level : \nMedium
- Last Updated : \n18 Jun, 2019

Hi All, Here is my interview experience with Amazon for internship. Hope it helps:

### Round 1:

Online round with 20 objective questions on (Questions related to data structures, analysis of algorithms, C Language and some puzzles.) and 2 coding questions in 90 minutes

- [Write a program to reverse k alternate nodes of a linked list](#)

Ex: 1->2->3->4->5->6->7->8->9\r\nIf k is 3 Output should be: 3->2->1->6->5->4->9->8->7

- Given a string. [Write a program to form a string with first character of all words.](#)

Ex: The bucket is full of water\r\nOutput: Tbifow

Check all edge and corner cases.

### Round 2: Face to face round

1. [Given a binary tree. Modify it in such a way that after modification you can have a preorder traversal of it using only right pointers.](#) During modification you can use right as well as left pointers. Write complete code and dry run it for some test cases.
2. [Given 2 linked lists. Find out if they intersect or not. If yes, find intersection point](#) .Write complete code for it.

I could not remember the simple way: find the length of the lists and simply move forward the shorter list by difference of the lengths and find the intersection point. Instead, I joined the end of first list at the end of the 2nd list and then went for cycle finding by Floyd Cycle finding Algorithm. Although both are  $O(n)$ , but he was impressed as it was a new approach.

### Round 3: Face to face round

1. [Given a sorted array of 0's and 1's. Find out the no. of 0's in it.](#) Write recursive, iterative versions of the code and check for all test cases.
2. [Spiral level order traversal without using extra variable for detecting level](#) (using one stack and one queue) and few other implementations as well.

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[All Practice Problems for Amazon !](#)

My Personal Notes\ *narrow\_drop\_up*

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