

## Amazon Interview Experience | Set 241 (1.5 years experience)

- Difficulty Level :[Hard](#)
- Last Updated :[02 Jul, 2019](#)

### Round-1 (World Trade Centre, Bangalore) Technical

1. [Given an array that is first increasing then decreasing, find an element in it.](#)

Example: arr[] = { 2,6,8,9,15,20,18,16,12,7,1}; x = 12, Find x.

2. [Print left view of a binary tree.](#)

3. [Given an array that contains only 1, 2 and 3. Sort the array.](#) He asked me to write code for two methods counting method and Dutch National Flag algorithm.

4. There is a irregular, haphazard, shapeless cake that needs to be divided equally among n people. Say you are one among them. How do you achieve consensus?

### Round -2 (Q-city, Hyderabad) Bar raiser

1. About projects, your contribution, your roles and responsibility, challenges faced etc.

2. Why amazon?

3. Given a pattern containing only Is and Ds. I for increasing and D for decreasing. Devise an algorithm to print the MINIMUM number following that pattern. Digits from 1-9 and digits can't repeat.

Example: 1. Input: D                      Output: 21    2. Input: I                      Output: 12    3. Input: DD                      Output: 132

### Round 3 (Q-city, Hyderabad) Technical

1. [Given pre-order traversal of a BST. Construct the BST.](#)

2. [Given a m\\*n matrix. m and n can be huge. We need to query the matrix for sum of submatrices. Input will be the top-left and bottom-right co-ordinates. We need to return the sum of submatrix in O\(1\) time.](#)

Solution: Do column wise sum of the matrix and store it. Again, do the row wise sum and store it.

### Round 4 (Q-city, Hyderabad) Managerial

1. About projects, your contribution, your roles and responsibility, challenges faced etc.

2. [Given m sorted arrays, merge it into one array.](#)

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