ZOHO FEEDBACK

Round – 1:

There are 2 sections of questions, 10 Questions from Programming and 10 Questions from Aptitude.

Aptitude Topics:

- Profit & Loss.
- Permutation.
- Time, Speed & Distance.
- Probability.
- Consecutive Terms.
- Age & Train.
- Pipes.
- Average & Ratio.
- Percentage.
- Proportion.
- Clock.
- Number Series/Sequences.
- Calendars.
- Combinations.
- Time & work.
- Equation.

Programming Topics:

- Recursion.
- String Manipulation.
- Hash map & Hash set.
- Flow control.
- Array & Loops.
- Ternary Operator.
- Exceptions.
- Build in Functions.
- ASCII Values
- Increment & Decrement
- Multiple return.
- Different Java Methods.
- Multiple loop.
- Bool & Boolean function.
- Class & object.
- Functions & Collections.
- Regressions.
- Occurrences.
- Character Array Indexing
- Pointer Concept

Round – 2:

They are given 5 programs to solve and also were free to choose our comfortable language to code.

Topics:

1. In a room , infinite members are coming in a row one after the other with different heights. Our code must spot the one who is holding the purple cap. (The one with purple cap will be the middle person when the people are made to stand in a sorted manner)
    a. Note: size of array not given as input
2. Infinite names are passed as input . Our code must find the anagraphic words (for ex: Maya and amay are anagrphic since same alphabets form different word)
3. A matrix with 1s and 0s is given as input. Our code must find how many islands can be found from the matrix . (An island is formed when a group of 1s are found either vertically, horizontally or diagonally. Other way of getting the island is 1s surrounded by 0s in all direction)Note: size of matrix not given as input
4. A string is passed as input . We have to find the longest substring - palindrome
5. Sequence of integers are given as input. We have to find the equilibrium index.
    a. (The left sum must be equal to right sum from a given index).
    The size of array is not given.
6. Persons should entered into the room one by one. Identify the person who is holding the special purple cap. Also given that the person who is in the middle can get the cap. Number of persons cannot be given.
7. Given n number of string names . We have to find the Pairs who's name is anagram. Also the numbers of names will not given.
8. Given 2D matrix , we have to identify the number of islands in the matrix.
9. Given a string. We have to identify the longest substring which is a palindrome
10. Given an array of integers. We have to identify the equilibrium indexes (equilibrium index means sum of left side elements should be equal to the sum of right side elements).
11. Sorting
12. Anagram pair
13. Find the number of islands in a given matrix
14. Longest palindromic substring
15. String Problem
16. Equilibrium Index
    a. Sum of (A[0]+....A[i-1])must be equal to (A[i+1]...A[n-1]). Input: 1 2 3 -10 4 5 -3 Output: 3
    b. Explaination: Index of the element -10 that is 3 When we add (1+2+3)==(4+5+ -3).
17. Input:{6.0 7.0 5.0}, Output:6.0
    We must sort the given array and print the middle element.
    Size of n is not given,So dynamically we must get input from the user

Round – 3:

They are given 8 programs to solve the logic of Program and Explained it.

Topics:

1. Find the number of ways to solve quadrables.
2. Determine the minimum number of operations to convert a string 's' to 't'.
3. Implement a data structure (stack) to perform operations based on given instructions.
4. Write a program based on a chess game (backtracking).
5. Decode the number using dynamic programming.
6. Find the missing number in an array.
7. Construct the binary sequence (0, 1, 00, 01, 10, 11, 000, 001, 011, 111, 010, 101, ...) and from the sequence, take the nth term and convert it to decimal.
8. Print a pattern based on a given range.