* String and graph related problems of medium difficulty
* String manipulation, OOP related questions
* **First Phase: Q1. Print repeating elements in an array.**
* Q2. Ip address validation problem.
* Second Phase: Q1. You will be given a long string. You have to break the string with maximum characters per line.
* **1. first non repeating character. + print 1,2,3 ... 10, 9, 8 ...1 with a single for loop.**
* 2. **decode an encoded string, it was a stack problem**
* Database
* My projects
* Array related problem
* **Checking a string is Pangram or not**
* Write a code to detect whether a given IP address is valid or not
* Divide a long sentence into multiple sentences with length at most N so that no word is broken in multiple lines. I had to use C# but I wasn't allowed to use split.
* **Given a sentence as a string. Reverse the words keep the sequence and output the reversed word string.** (15-minute screening test)
* Input:

1

1 1

1 2 1

1 3 3 1

1 4 6 4 1

1 5 10 10 5 1

1 6 15 20 15 6 1

Output this pattern as center-aligned. (1.5-hours coding test)

* A string manipulation problem.
* A data structure related problem.
* **You are given an array. You have to print the array(without using extra space) after one circular shift.**
* Given a very big string and maximum characters allowed in a line as input. You have to divide the string (without breaking the word) in such a way that each of the lines does not contain characters more than the value of maximum character allowed in a line.
* Longest Common subsequence of string
* 1. Left alignment string was given and have to make it center alignment.
* 2. A hierarchical XML tag list was given and from this we have to make a tree.
* An array was given and the output will be an array. the task was to manipulate the array by right shifting the elements
* Round1: simple array related problem like "find highest and second highest number from the array using only one loop"
* Round2: Left align strings given. you need to make it center align or right align. If you complete this task then they modify this same problem a little bit to make it harder. Honestly those are not that hard. anyone who have proper knowledge of data-structure, algorithms and ability to solve codeforces (A, B), can easily solve that.
* Coding phase question 1 : Given a left aligned string asked to make it center aligned.
* Coding phase Question 2 : Find most frequent and 2nd most frequent small letter from a given string
* Write an algorithm to reverse a string.
* Coding phase question 1: Given a string the interview asked to make each new line of the string center aligned. Each new line was identified by special character '\r\n'
* Coding phase question 2: Given a string the interview asked to find the most frequent character and the second most frequent character
* Right Alignment Problem and Graph Theory
* 1. String reverse
* 2. Age-related to math etc
* Write a program the prints the multiple of 3 from 1 to 200 in reverse order.
* : What if an array is empty but stack implementation wants to pop from it?
* The coding test contains problems involving text alignment.
* <https://aprogrammersexperience.blogspot.com/2018/11/interview-questions-at-enosispart-1.html?m=1>
* Center alignment from a left aligned Triangle pattern.
* add a new line to an input string when it exceeded a given limit of characters per line.
* print 1 2 3 4 5 6 7 8 9 10 9 8 7 6 5 4 3 2 1 by using only one loop
* What is the different between depth first search and breadth first search?
* You'll be given some text in a file. The text in the file can be left align, right-align, or center align. You need to align those texts with the interviewer's choice.
* What is Vector in C++ STL?
* Why do you want to work as a Software Engineer?
* Why do you want to work as a Software Engineer?
* The string based problem asked for center aligning a multi lined string.
* add a new line to an input string when it exceeded a given limit of characters per line.
* You'll be given some text in a file. The text in the file can be left align, right-align, or center align. You need to align those texts with the interviewer's choice
* The first problem was of a string alignment conversion.
* Sum two numbers from the file inputs etc
* what is ajax? why we use it?
* Agile development knowledge
* Write code of 1st 100 Prime number series, Fibonnaci series.
* Find the average of a given array without the max and mix numbers.
* Building from parent-child relation, building tree postfix notation etc
* largest common subsequence
* Write a code for reading all the files in a folder

**Tree**

1. Build a tree from list of nodes. Question will be explained by the interviewer.
2. **Given a postfix notation. Build the expression tree.**
3. Given an array of nodes, where each of the nodes has three members- id, name, parentId . You have to generate the tree using two given methods. Questions will be explained briefly by the interviewer.
4. id name parent\_id

1 abcd -1

2 bcdf 1

3 efgh 2

normalNode{

id;

name;

parentId;

}

treeNode n = add(string name, treeNode parentNode) //normal

treeNode n = add(string name) //parent

make a tree out of these given list structure.

1. Given a list of entities consisting of child, parent relationship, build the tree.
2. Given a list of tree nodes. Generate the full tree using parent and child ID.
3. The interview gave a list of nodes from a collection of trees where each node has an id and a name (string) and another id which determines its parent(-1 in case the node is a root). The trees (forest) had to be constructed from the given information.
4. binary trees.
5. Adding a node to a multi rooted tree.
6. tree generation in coding test.
7. Second problem was creating a tree using a node insertion function they will provide based on a list of relationships between some entities.
8. binary hierarchical tree that can make parent child relationship.