InfyTQ Previous year questions

1. Given a list of string and numbers, rotate the string by one position to the right. If the sum of squares of digits of the corresponding number is, even then, turn it twice to the left if the sum of the squares of the digits of the corresponding number is odd.
2. Given an array, find the subarray, which can be a square matrix with maximum sum. If there are multiple results, print the matrices in the order of their orders (i.e, 3×3 matrix will be published first, then 2X2…so on).
3. Given an alphanumeric string, extract all numbers, remove the duplicate digits, and from that set of digits, construct the largest even number possible.
4. Given an mxn matrix, select an element if the same element appears at 4 consecutive positions again. Return the minimum element from all the gathered elements. What is consecutive? It’s horizontal, vertical, and all possible diagonals.
5. State whether a giving string contains matching braces or not. In case of mismatch is present, then output the index of mismatch position.
6. Longest Alphabetic Sequence -From an alphanumeric string, extract, all digits, from the smallest odd number with no repeats.
7. Given a string, find the substring based on the following conditions,

The substring must be the longest one of all the possible substring in the given string.

The length of the substring must be a minimum 3.

There must not be any repeating characters in the substring.

If there is more than one substring satisfying the above two conditions, then print the substring, which occurs first.