**ZOHO PROGRAMMING QUESTIONS – SUMMER INTERNSHIP 2022**

1) Print the next large element.

INPUT: [8, 3, 2, 5, 9]

OUTPUT: 8->9, 3->5, 2->3, 5->8, 9->

INPUT: [4, 10, 5, 3, 8, 2]

OUTPUT: 4->5, 10->, 5->8, 3->4, 8->10, 2->3

2) Print the first most occurrence letter in a word

INPUT: occurrence

OUTPUT: c, 3 times

INPUT: mississippi

OUTPUT: s, 4 times

INPUT: onechar

OUTPUT: o, 1 time

3) Remove the palindrome from the given sentence

INPUT: He likes Malayalam

OUTPUT: He likes

INPUT: No good deed goes unpunished

OUTPUT: No good goes unpunished

INPUT: Try your best

OUTPUT: Try your best

4) Accept two strings. Check whether the second string is a substring of first string or not. The \* in the second string can be equal to any number of letters. The \* in the second string should be considered as a ‘\*’ character if it is followed by \. The character ‘\’ should not be considered as a character if it is before ‘\*’. The ‘\’ should be considered only if it does not have \* next to it.

INPUT: star, s\*r

OUTPUT: True

INPUT: young, u\*g

OUTPUT: True

INPUT: zoho, z\*g

OUTPUT: False

INPUT: st\*ar, st\\*r

OUTPUT: True

INPUT: star, st\\*

OUTPUT: False

INPUT: st\r, s\

OUTPUT: True

INPUT: star, s\

OUTPUT: False

5) Print the pattern

INPUT: 5

OUTPUT:

1

2 6

3 7 10

4 8 11 13

5 9 12 14 15

INPUT: 3

OUTPUT:

1

2 4

3 5 6

6) Print the pattern

INPUT: 4

OUTPUT:

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

7) Check whether brackets enclosed or not

INPUT: [()]

OUTPUT: True

INPUT: {()]

OUTPUT: False

INPUT: [{()}]

OUTPUT: True

INPUT: [{]()]

OUTPUT: False

8) Print the large substring between the two Vowels in a word

INPUT: alphabet

OUTPUT: lph

INPUT: consonant

OUTPUT: ns

INPUT: mango

OUTPUT: ng