PROGRAMMING ASSIGNMENT

1. Unique Number and Frequency

Objective:

Given List $\,L$ contains N integers . You have to find the unique integer in a sorted order L_1 and frequency of the integers L_2 .

Input Format:

First line contains a List with N integers

Constraints:

$$0 < N < = 100$$

Output Format:

Print the unique integer in a sorted order L₁.

Print the frequency of integers L_2 .

Sample Input:

Sample Output:

Explanation:

$$N=[1, 2, 3, 2, 4, 4, 4, 3, 5, 1]$$

Here 1 occurs 2 times, 2 occurs 2 times, 3 occurs 2 times, , similarly for all.

Eliminate the duplicate integers and store the no. of occurrence of each integer

CLICK REFRES

2. Second Largest Prime Number

Objective:

Given a list L, find the second largest prime number of the list

Input Format:

First line contains a List with N integers

Constraints:

$$0 < N < = 10^2$$

Output Format:

Print the second largest prime number

Sample Input:

Sample Output:

17

Explanation:

Prime number=[3, 5, 7, 11, 17, 19]

Largest prime number is 19

Second largest prime number is 17

3. Square of Keys

Objective:

Write a Python script to print a dictionary where the keys are numbers between 1 and 15 (both included) and the values are square of keys.

Input Format:

First line contains a integer N.

Constraints:

$$0 < N < = 10^2$$

Output Format:

Print the dictionary containing square values

Sample Input:

7

Sample Output:

{1:1, 2:4, 3:9, 4:16, 5:25, 6:36, 7:49}

Explanation:

$$N = 7$$

If key = 1 and its value is $1^2 = 1$

If key =2 and its value is $2^2 = 4$

If key =3 and its value is $3^2 = 9$