STUDENT REPORT

DETAILS

Name

Mohammed Aakhil R

Roll Number

22BI24EE410-T

EXPERIMENT

Title

REVERSE PACK

Description

Given an array of positive integers, you need to create a new list where:

Each element represents the frequency count of occurrence of all unique numbers in the original array.Each frequency count occurs the number of times in the new list equal to the value of the corresponding unique number in the original array. Finally, Sort the new list and display.

Input Format:
The first line contains an integer n, denoting the size of the array.

The second line contains n space-separated integers, representing the elements of the array.

Sample Input:

6

3 3 1 1 1 2

Sample Output:

[1, 1, 2, 2, 2, 3]

Explanation:

[3, 3, 1, 1, 2] we have {3:2,1:3,2:1}. So now 2 has to appear 3 times and 3 has to appear 1 time and 1 has to appear 2 times.

So the list we get is [2, 2, 2, 3, 1, 1] sorting the list we have [1, 1, 2, 2, 2, 3]

Source Code:

```
def frequency_list(arr):
    from collections import Counter

    # Count frequencies of each unique number
    frequency = Counter(arr)

    # Create the new list based on the frequency counts
    new_list = []

    for number, count in frequency.items():
        new_list.extend([count] * number)  # Append the frequency 'count' times according to the value 'number'

    # Sort the new list
    new_list.sort()

    return new_list

# Input reading
n = int(input())
arr = list(map(int, input().split()))

# Get the result
result = frequency_list(arr)

# Print the result
print(result)
```

RESULT

5 / 5 Test Cases Passed | 100 %