Logo

STUDENT REPORT

DETAILS

Name

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Roll Number

KUB23CSE047

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(n, arr):
    frequency_count = {}
    for num in arr:
        if num in frequency_count:
            frequency_count[num] += 1
        else:
            frequency_count[num] = 1

    new_list = []
    for num, freq in frequency_count.items():
        new_list.extend([freq] * num)


    new_list.sort()

    return new_list
n = int(input())
arr = list(map(int, input().split()))
result = frequency_list(n, arr)
print(result)
```

RESULT

5 / 5 Test Cases Passed | 100 %