

Array_Level2_005

Given an array of integers, sort the array according to frequency of elements. For example, if the input array is {2, 3, 2, 4, 5, 12, 2, 3, 3, 3, 12}, then modify the array to {3, 3, 3, 3, 2, 2, 2, 12, 12, 4, 5}.

Input Format

Input contains the no of elements and array values

Constraints

$1 \leq \text{array_size} \leq 10000$

Output Format

print the altered array

Sample Input 0

```
17
3 2 4 6 2 4 3 3 4 5 6 3 2 4 5 5 3
```

Sample Output 0

```
3 3 3 3 4 4 4 4 2 2 2 5 5 5 6 6
```