

2610. Convert an Array Into 2D Array w/ Conditions

Given input array with elements, return minimal 2d list in which each element in a row are unique.

Ex. Input: [1 1 1 3 5 8]

Output: [[1 3 5 8]

[1]

[1]]

There are 2 approaches I can think of.

1.) Sort Array

2.) Iterate over array.

3.) If curr. value == prev. value

Insert prev. have curr. value inserted
in next row

4.) Else insert prev. have curr. value inserted
in row 0.

5.) For steps 3, 4 ; if next doesn't exist, create it.

6.) Return value.

Time: $O(n \log n)$ Space: $O(n)$ [sorting can take $O(n)$]

OR

1.) Create a map $\langle \text{int}, \text{int} \rangle$ representing value and run occurrences.

2.) Iterate over map.

3.) Insert key value times, each into next row.
Create row if doesn't exist.

4.) Return created matrix.