Problem 914: X of a Kind in a Deck of Cards

Problem Information

Difficulty: Easy
Acceptance Rate: 30.01%
Paid Only: No
Tags: Array, Hash Table, Math, Counting, Number Theory

Problem Description

You are given an integer array `deck` where `deck[i]` represents the number written on the `ith` card.

Partition the cards into **one or more groups** such that:

* Each group has **exactly** `x` cards where `x > 1`, and * All the cards in one group have the same integer written on them.

Return `true` _if such partition is possible, or_`false` _otherwise_.

Example 1:

Input: deck = [1,2,3,4,4,3,2,1] **Output:** true **Explanation** : Possible partition [1,1],[2,2],[3,3],[4,4].

Example 2:

Input: deck = [1,1,1,2,2,2,3,3] **Output:** false **Explanation** : No possible partition.

Constraints:

* `1 <= deck.length <= 104` * `0 <= deck[i] < 104`

Code Snippets

C++:

```
class Solution {
public:
bool hasGroupsSizeX(vector<int>& deck) {

}
};
```

Java:

```
class Solution {
public boolean hasGroupsSizeX(int[] deck) {

}
}
```

Python3:

```
class Solution:
def hasGroupsSizeX(self, deck: List[int]) -> bool:
```