914. X of a Kind in a Deck of Cards

Easy 940 234 Add to List Share

In a deck of cards, each card has an integer written on it.

Return `true` if and only if you can choose `X >= 2` such that it is possible to split the entire deck into 1 or more groups of cards, where:

- Each group has exactly `X` cards.
- All the cards in each group have the same integer.

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.
```

Example 3:

```
Input: deck = [1]
Output: false
Explanation: No possible partition.
```

Example 4:

```
Input: deck = [1,1]
Output: true
Explanation: Possible partition [1,1].
```

Example 5:

```
Input: deck = [1,1,2,2,2,2]
Output: true
```

Python3 Autocomplete

```python
class Solution(object):
    def hasGroupsSizeX(self, deck):
        vals = collections.Counter(deck).values()
        return reduce(gcd, vals) >= 2
```