Problem 846: Hand of Straights

Problem Information

Difficulty: Medium
Acceptance Rate: 57.59%
Paid Only: No
Tags: Array, Hash Table, Greedy, Sorting

Problem Description

Alice has some number of cards and she wants to rearrange the cards into groups so that each group is of size `groupSize`, and consists of `groupSize` consecutive cards.

Given an integer array `hand` where `hand[i]` is the value written on the `ith` card and an integer `groupSize`, return `true` if she can rearrange the cards, or `false` otherwise.

Example 1:

Input: hand = [1,2,3,6,2,3,4,7,8], groupSize = 3 **Output:** true **Explanation:** Alice's hand can be rearranged as [1,2,3],[2,3,4],[6,7,8]

Example 2:

Input: hand = [1,2,3,4,5], groupSize = 4 **Output:** false **Explanation:** Alice's hand can not be rearranged into groups of 4.

Constraints:

* `1 <= hand.length <= 104` * `0 <= hand[i] <= 109` * `1 <= groupSize <= hand.length`

Note: This question is the same as 1296: <https://leetcode.com/problems/divide-array-in-sets-of-k-consecutive-numbers/>

Code Snippets

C++:

```
class Solution {
public:
bool isNStraightHand(vector<int>& hand, int groupSize) {

}
};
```

Java:

```
class Solution {
public boolean isNStraightHand(int[] hand, int groupSize) {

}
}
```

Python3:

```
class Solution:
def isNStraightHand(self, hand: List[int], groupSize: int) -> bool:
```