Problem 1296: Divide Array in Sets of K Consecutive Numbers

Problem Information

Difficulty: Medium
Acceptance Rate: 59.01%
Paid Only: No
Tags: Array, Hash Table, Greedy, Sorting

Problem Description

Given an array of integers `nums` and a positive integer `k`, check whether it is possible to divide this array into sets of `k` consecutive numbers.

Return `true` _if it is possible_.**** Otherwise, return `false`.

Example 1:

Input: nums = [1,2,3,3,4,4,5,6], k = 4 **Output:** true **Explanation:** Array can be divided into [1,2,3,4] and [3,4,5,6].

Example 2:

Input: nums = [3,2,1,2,3,4,3,4,5,9,10,11], k = 3 **Output:** true **Explanation:** Array can be divided into [1,2,3] , [2,3,4] , [3,4,5] and [9,10,11].

Example 3:

Input: nums = [1,2,3,4], k = 3 **Output:** false **Explanation:** Each array should be divided in subarrays of size 3.

Constraints:

* `1 <= k <= nums.length <= 105` * `1 <= nums[i] <= 109`

Note: This question is the same as 846:
<https://leetcode.com/problems/hand-of-straights/>

Code Snippets

C++:

```cpp
class Solution {
public:
bool isPossibleDivide(vector<int>& nums, int k) {


}
};
```

Java:

```java
class Solution {
public boolean isPossibleDivide(int[] nums, int k) {


}
}
```

Python3:

```python
class Solution:
def isPossibleDivide(self, nums: List[int], k: int) -> bool:
```