

Problem 2229: Check if an Array Is Consecutive

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Given an integer array

nums

, return

true

if

nums

is

consecutive

, otherwise return

false

.

An array is

consecutive

if it contains every number in the range

$[x, x + n - 1]$

(

inclusive

), where

x

is the minimum number in the array and

n

is the length of the array.

Example 1:

Input:

nums = [1,3,4,2]

Output:

true

Explanation:

The minimum value is 1 and the length of nums is 4. All of the values in the range $[x, x + n - 1] = [1, 1 + 4 - 1] = [1, 4] = (1, 2, 3, 4)$ occur in nums. Therefore, nums is consecutive.

Example 2:

Input:

nums = [1,3]

Output:

false

Explanation:

The minimum value is 1 and the length of nums is 2. The value 2 in the range $[x, x + n - 1] = [1, 1 + 2 - 1] = [1, 2] = (1, 2)$ does not occur in nums. Therefore, nums is not consecutive.

Example 3:

Input:

nums = [3,5,4]

Output:

true

Explanation:

The minimum value is 3 and the length of nums is 3. All of the values in the range $[x, x + n - 1] = [3, 3 + 3 - 1] = [3, 5] = (3, 4, 5)$ occur in nums. Therefore, nums is consecutive.

Constraints:

$1 \leq \text{nums.length} \leq 10$

5

$0 \leq \text{nums}[i] \leq 10$

5

Code Snippets

C++:

```
class Solution {
public:
bool isConsecutive(vector<int>& nums) {
}
};
```

Java:

```
class Solution {
public boolean isConsecutive(int[] nums) {
}
}
```

Python3:

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

Python:

```
class Solution(object):
def isConsecutive(self, nums):
"""
:type nums: List[int]
:rtype: bool
"""
```

JavaScript:

```
/**
 * @param {number[]} nums
 * @return {boolean}
 */
var isConsecutive = function(nums) {
};
```

TypeScript:

```
function isConsecutive(nums: number[]): boolean {
```

```
};
```

C#:

```
public class Solution {  
    public bool IsConsecutive(int[] nums) {  
        }  
    }
```

C:

```
bool isConsecutive(int* nums, int numsSize) {  
}
```

Go:

```
func isConsecutive(nums []int) bool {  
}
```

Kotlin:

```
class Solution {  
    fun isConsecutive(nums: IntArray): Boolean {  
        }  
    }
```

Swift:

```
class Solution {  
    func isConsecutive(_ nums: [Int]) -> Bool {  
        }  
    }
```

Rust:

```
impl Solution {  
    pub fn is_consecutive(nums: Vec<i32>) -> bool {
```

```
}
```

```
}
```

Ruby:

```
# @param {Integer[]} nums
# @return {Boolean}
def is_consecutive(nums)

end
```

PHP:

```
class Solution {

    /**
     * @param Integer[] $nums
     * @return Boolean
     */
    function isConsecutive($nums) {

    }
}
```

Dart:

```
class Solution {
  bool isConsecutive(List<int> nums) {
    }
}
```

Scala:

```
object Solution {
  def isConsecutive(nums: Array[Int]): Boolean = {
    }
}
```

Elixir:

```
defmodule Solution do
@spec is_consecutive(nums :: [integer]) :: boolean
def is_consecutive(nums) do

end
end
```

Erlang:

```
-spec is_consecutive(Nums :: [integer()]) -> boolean().
is_consecutive(Nums) ->
.
```

Racket:

```
(define/contract (is-consecutive nums)
  (-> (listof exact-integer?) boolean?))
```

Solutions

C++ Solution:

```
/*
 * Problem: Check if an Array Is Consecutive
 * Difficulty: Easy
 * Tags: array, hash, sort
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

class Solution {
public:
    bool isConsecutive(vector<int>& nums) {
}
```

Java Solution:

```

/**
 * Problem: Check if an Array Is Consecutive
 * Difficulty: Easy
 * Tags: array, hash, sort
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

class Solution {
    public boolean isConsecutive(int[] nums) {
        }

    }
}

```

Python3 Solution:

```

"""
Problem: Check if an Array Is Consecutive
Difficulty: Easy
Tags: array, hash, sort

Approach: Use two pointers or sliding window technique
Time Complexity: O(n) or O(n log n)
Space Complexity: O(n) for hash map
"""

class Solution:
    def isConsecutive(self, nums: List[int]) -> bool:
        # TODO: Implement optimized solution
        pass

```

Python Solution:

```

class Solution(object):
    def isConsecutive(self, nums):
        """
:type nums: List[int]
:rtype: bool
"""

```

JavaScript Solution:

```
/**  
 * Problem: Check if an Array Is Consecutive  
 * Difficulty: Easy  
 * Tags: array, hash, sort  
 *  
 * Approach: Use two pointers or sliding window technique  
 * Time Complexity: O(n) or O(n log n)  
 * Space Complexity: O(n) for hash map  
 */  
  
/**  
 * @param {number[]} nums  
 * @return {boolean}  
 */  
var isConsecutive = function(nums) {  
  
};
```

TypeScript Solution:

```
/**  
 * Problem: Check if an Array Is Consecutive  
 * Difficulty: Easy  
 * Tags: array, hash, sort  
 *  
 * Approach: Use two pointers or sliding window technique  
 * Time Complexity: O(n) or O(n log n)  
 * Space Complexity: O(n) for hash map  
 */  
  
function isConsecutive(nums: number[]): boolean {  
  
};
```

C# Solution:

```
/*  
 * Problem: Check if an Array Is Consecutive  
 * Difficulty: Easy  
 * Tags: array, hash, sort  
 */
```

```

* Approach: Use two pointers or sliding window technique
* Time Complexity: O(n) or O(n log n)
* Space Complexity: O(n) for hash map
*/
public class Solution {
public bool IsConsecutive(int[] nums) {

}
}

```

C Solution:

```

/*
* Problem: Check if an Array Is Consecutive
* Difficulty: Easy
* Tags: array, hash, sort
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* Time Complexity: O(n) or O(n log n)
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*/
bool isConsecutive(int* nums, int numsSize) {

}

```

Go Solution:

```

// Problem: Check if an Array Is Consecutive
// Difficulty: Easy
// Tags: array, hash, sort
//
// Approach: Use two pointers or sliding window technique
// Time Complexity: O(n) or O(n log n)
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func isConsecutive(nums []int) bool {
}

```

Kotlin Solution:

```
class Solution {  
    fun isConsecutive(nums: IntArray): Boolean {  
        }  
        }  
    }
```

Swift Solution:

```
class Solution {  
    func isConsecutive(_ nums: [Int]) -> Bool {  
        }  
        }  
    }
```

Rust Solution:

```
// Problem: Check if an Array Is Consecutive  
// Difficulty: Easy  
// Tags: array, hash, sort  
//  
// Approach: Use two pointers or sliding window technique  
// Time Complexity: O(n) or O(n log n)  
// Space Complexity: O(n) for hash map  
  
impl Solution {  
    pub fn is_consecutive(nums: Vec<i32>) -> bool {  
        }  
        }  
    }
```

Ruby Solution:

```
# @param {Integer[]} nums  
# @return {Boolean}  
def is_consecutive(nums)  
  
end
```

PHP Solution:

```
class Solution {  
  
    /**  
     * @param Integer[] $nums  
     * @return Boolean  
     */  
    function isConsecutive($nums) {  
  
    }  
}
```

Dart Solution:

```
class Solution {  
bool isConsecutive(List<int> nums) {  
  
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```
object Solution {  
def isConsecutive(nums: Array[Int]): Boolean = {  
  
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defmodule Solution do  
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