

1764. Form Array by Concatenating Subarrays of Another Array

My Submissions (/contest/biweekly-contest-46/problems/form-array-by-concatenating-subarrays-of-another-array/submissions/)

Back to Contest (/contest/biweekly-contest-46/)

You are given a 2D integer array `groups` of length `n` . You are also given an integer array `nums` .

You are asked if you can choose `n` **disjoint** subarrays from the array `nums` such that the `ith` subarray is equal to `groups[i]` (**0-indexed**), and if `i > 0` , the `(i-1)th` subarray appears **before** the `ith` subarray in `nums` (i.e. the subarrays must be in the same order as `groups`).

Return `true` if you can do this task, and `false` otherwise.

Note that the subarrays are **disjoint** if and only if there is no index `k` such that `nums[k]` belongs to more than one subarray. A subarray is a contiguous sequence of elements within an array.

User Accepted:	2643
User Tried:	3025
Total Accepted:	2824
Total Submissions:	5367
Difficulty:	Medium

Example 1:

Input: `groups = [[1,-1,-1],[3,-2,0]]`, `nums = [1,-1,0,1,-1,-1,3,-2,0]`
Output: `true`
Explanation: You can choose the `0th` subarray as `[1,-1,0,1,-1,-1,3,-2,0]` and the `1st` one as `[1,-1,0,1,-1,-1,3,-2,0]`. These subarrays are disjoint as they share no common `nums[k]` element.

Example 2:

Input: `groups = [[10,-2],[1,2,3,4]]`, `nums = [1,2,3,4,10,-2]`
Output: `false`
Explanation: Note that choosing the subarrays `[1,2,3,4,10,-2]` and `[1,2,3,4,10,-2]` is incorrect because they are not in the same order. `[10,-2]` must come before `[1,2,3,4]`.

Example 3:

Input: `groups = [[1,2,3],[3,4]]`, `nums = [7,7,1,2,3,4,7,7]`
Output: `false`
Explanation: Note that choosing the subarrays `[7,7,1,2,3,4,7,7]` and `[7,7,1,2,3,4,7,7]` is invalid because they are not disjoint. They share a common elements `nums[4]` (0-indexed).

Constraints:

- `groups.length == n`
- `1 <= n <= 103`
- `1 <= groups[i].length`, `sum(groups[i].length) <= 103`
- `1 <= nums.length <= 103`
- `-107 <= groups[i][j]`, `nums[k] <= 107`

Discuss (https://leetcode.com/problems/form-array-by-concatenating-subarrays-of-another-array/discuss)

JavaScript

📄 ↺ ⚙️

```
1 /**
2  * @param {number[][]} groups
3  * @param {number[]} nums
4  * @return {boolean}
5  */
6 var canChoose = function(groups, nums) {
7
8 };
```