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### 100136. Count the Number of Good Partitions

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You are given a **0-indexed** array nums consisting of **positive** integers.

A partition of an array into one or more **contiguous** subarrays is called **good** if no two subarrays contain the same

Return the total number of good partitions of nums .

Since the answer may be large, return it **modulo**  $10^9 + 7$ .

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Hard

#### Example 1:

```
Input: nums = [1,2,3,4]
Output: 8
Explanation: The 8 possible good partitions are: ([1], [2], [3], [4]), ([1], [2], [3,4]), ([1], [2,3], [4]), ([1], [2,4])
```

### Example 2:

```
Input: nums = [1,1,1,1]
Output: 1
Explanation: The only possible good partition is: ([1,1,1,1]).
```

# Example 3:

```
Input: nums = [1,2,1,3]
Output: 2
Explanation: The 2 possible good partitions are: ([1,2,1], [3]) and ([1,2,1,3]).
```

# **Constraints:**

- 1 <= nums.length <=  $10^5$
- 1 <= nums[i] <=  $10^9$

```
JavaScript
                                                                                                                      \mathbf{c}
 1
    const mod = 1e9 + 7;
 2
 3
    const numberOfGoodPartitions = (a) => {
        let first = new Map(), last = new Map(); // save first/last occurence index of value
 4
 5 ▼
        a.map((x, i) \Rightarrow \{
             if (!first.has(x)) first.set(x, i);
 6
 7
             last.set(x, i);
 8
        })
 9
        let n = a.length, imos = Array(n + 1).fill(0), res = 1;
10 •
        for (const [x, i] of first) {
11
             imos[i]++;
12
             imos[last.get(x)]--;
13
14
        for (let i = 0; i < n; i++) imos[i + 1] += imos[i];
15 •
        for (let i = 0; i < n - 1; i++) {
16
             if (imos[i] == 0) res = res * 2 % mod;
17
18
        return res;
19
    };;
```

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