

6137. Check if There is a Valid Partition For The Array

My Submissions (/contest/weekly-contest-305/problems/check-if-there-is-a-valid-partition-for-the-array/submissions/)

Back to Contest (/contest/weekly-contest-305/)

You are given a **0-indexed** integer array `nums` . You have to partition the array into one or more **contiguous** subarrays.

We call a partition of the array **valid** if each of the obtained subarrays satisfies **one** of the following conditions:

- 1. The subarray consists of **exactly** 2 equal elements. For example, the subarray `[2,2]` is good.
- 2. The subarray consists of **exactly** 3 equal elements. For example, the subarray `[4,4,4]` is good.
- 3. The subarray consists of **exactly** 3 consecutive increasing elements, that is, the difference between adjacent elements is 1 . For example, the subarray `[3,4,5]` is good, but the subarray `[1,3,5]` is not.

Return `true` if the array has **at least** one valid partition. Otherwise, return `false` .

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

Example 1:

Input: `nums = [4,4,4,5,6]`
Output: `true`
Explanation: The array can be partitioned into the subarrays `[4,4]` and `[4,5,6]`. This partition is valid, so we return `true`.

Example 2:

Input: `nums = [1,1,1,2]`
Output: `false`
Explanation: There is no valid partition for this array.

Constraints:

- `2 <= nums.length <= 105`
- `1 <= nums[i] <= 106`

JavaScript

📄

↺

⚙️


```
1 const validPartition = (a) => {
2   let n = a.length, dp = Array(n + 1).fill(false);
3   dp[0] = true;
4   for (let i = 2; i <= n; i++) {
5     if (dp[i - 2] && a[i - 2] == a[i - 1]) dp[i] = true;
6     if (i - 3 >= 0 && dp[i - 3] && a[i - 1] == a[i - 2] && a[i - 2] == a[i - 3]) dp[i] = true;
7     if (i - 3 >= 0 && dp[i - 3] && a[i - 1] - a[i - 2] == 1 && a[i - 2] - a[i - 3] == 1) dp[i] = true;
8   }
9   return dp[n];
10  };
```

☐ Custom Testcase

Use Example Testcases

 Run

 Submit

Submission Result: **Accepted** (/submissions/detail/767259848/) 

More Details > (/submissions/detail/767259848/)

Share your acceptance!

Copyright © 2022 LeetCode

[Help Center \(/support\)](#) | [Jobs \(/jobs\)](#) | [Bug Bounty \(/bugbounty\)](#) | [Online Interview \(/interview/\)](#) | [Students \(/student\)](#) | [Terms \(/terms\)](#) | [Privacy Policy \(/privacy\)](#)

 [United States \(/region\)](#)