

2341. Maximum Number of Pairs in Array

Solved ●

Easy  Topics  Companies  Hint

You are given a **0-indexed** integer array `nums`. In one operation, you may do the following:

- Choose **two** integers in `nums` that are **equal**.
- Remove both integers from `nums`, forming a **pair**.

The operation is done on `nums` as many times as possible.

Return a **0-indexed** integer array `answer` of size 2 where `answer[0]` is the number of pairs that are formed and `answer[1]` is the number of leftover integers in `nums` after doing the operation as many times as possible.

Example 1:

Input: `nums = [1,3,2,1,3,2,2]`**Output:** `[3,1]`**Explanation:**Form a pair with `nums[0]` and `nums[3]` and remove them from `nums`. Now, `nums = [3,2,3,2,2]`.Form a pair with `nums[0]` and `nums[2]` and remove them from `nums`. Now, `nums = [2,2,2]`.Form a pair with `nums[0]` and `nums[1]` and remove them from `nums`. Now, `nums = [2]`.No more pairs can be formed. A total of 3 pairs have been formed, and there is 1 number leftover in `nums`.

Example 2:

Input: `nums = [1,1]`**Output:** `[1,0]`**Explanation:** Form a pair with `nums[0]` and `nums[1]` and remove them from `nums`. Now, `nums = []`.No more pairs can be formed. A total of 1 pair has been formed, and there are 0 numbers leftover in `nums`.

Example 3:

Input: `nums = [0]`**Output:** `[0,1]`**Explanation:** No pairs can be formed, and there is 1 number leftover in `nums`.

Constraints:

- `1 <= nums.length <= 100`
- `0 <= nums[i] <= 100`

Seen this question in a real interview before? 1/5

Yes No

Accepted **66.3K** Submissions **88.1K** Acceptance Rate **75.2%**Topics Companies Hint 1 Hint 2 

Similar Questions	▼
Discussion (9)	▼

Copyright © 2024 LeetCode All rights reserved