6229. Apply Operations to an Array

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You are given a **0-indexed** array nums of size n consisting of **non-negative** integers.

You need to apply n-1 operations to this array where, in the i^{th} operation (**0-indexed**), you will apply the following on the i^{th} element of nums:

If nums[i] == nums[i + 1], then multiply nums[i] by 2 and set nums[i + 1] to 0. Otherwise, you skip this
operation.

After performing all the operations, shift all the 0 's to the end of the array.

• For example, the array [1,0,2,0,0,1] after shifting all its 0 's to the end, is [1,2,1,0,0,0].

Return the resulting array.

Note that the operations are applied sequentially, not all at once.

Example 1:

```
Input: nums = [1,2,2,1,1,0]
Output: [1,4,2,0,0,0]
Explanation: We do the following operations:
    - i = 0: nums[0] and nums[1] are not equal, so we skip this operation.
    - i = 1: nums[1] and nums[2] are equal, we multiply nums[1] by 2 and change nums[2] to 0. The array becomes [1,4,0,1,1,0].
    - i = 2: nums[2] and nums[3] are not equal, so we skip this operation.
    - i = 3: nums[3] and nums[4] are equal, we multiply nums[3] by 2 and change nums[4] to 0. The array becomes [1,4,0,2,0,0].
    - i = 4: nums[4] and nums[5] are equal, we multiply nums[4] by 2 and change nums[5] to 0. The array becomes [1,4,0,2,0,0].
After that, we shift the 0's to the end, which gives the array [1,4,2,0,0,0].
```

Example 2:

```
Input: nums = [0,1]
Output: [1,0]
Explanation: No operation can be applied, we just shift the 0 to the end.
```

Constraints:

- 2 <= nums.length <= 2000
- 0 <= nums[i] <= 1000

```
JavaScript
                                                                                                                   d c
1 v const applyOperations = (a) ⇒ {
2
        let n = a.length, zero = 0;
3 •
        for (let i = 0; i < n - 1; i++) {
4 1
            if (a[i] == a[i + 1]) {
                a[i] *= 2;
5
6
                a[i + 1] = 0;
7
            }
8
        let res = [];
9
10
        for (const x of a) x == 0 ? zero++ : res.push(x);
11
        return [...res, ...Array(zero).fill(0)];
12
   };
```

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(Easy)

User Accepted:

Total Accepted:

Total Submissions:

User Tried:

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