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class Solution:

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5 0 11

■ Descr...

2460. Apply Operations to an Array

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
o '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].

array becomes $[1,4,0,\underline{2},\underline{0},0]$.

- i = 4: nums[4] and nums[5] are equal, we multiply nums[4] by 2 and change nums[5] to 0. The array becomes $[1,4,0,2,\underline{0},\underline{0}]$. 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.

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```
Autocomplete
```

```
def applyOperations(self, nums: List[int]) -> List[int]:
 2 ▼
 3
               while i < len(nums) - 1:</pre>
 4 ▼
                   if nums[i] == nums[i + 1]:
 5 ▼
                       nums[i] *= 2
 6
 7
                       nums[i + 1] = 0
 8
                        i += 1
 9
                   i += 1
10
               i = 0
11 ▼
               for j in range(len(nums)):
                   if nums[j] != 0:
12 ▼
                       nums[i] = nums[j]
13
14
                       i += 1
15 ▼
               while i < len(nums):</pre>
16
                   nums[i] = 0
17
                   i += 1
```

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