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6120. Maximum Number of Pairs in Array

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You are given a ${f 0}$ -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.

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

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array/)

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

```
JavaScript
                                                                                                                              4
                                                                                                                                    \mathfrak{C}
    const counter = (a_or_s) \Rightarrow \{ let m = new Map(); for (const x of a_or_s) m.set(x, m.get(x) + 1 || 1); return m; \};
 2
    const remove 0 ne 0 r Many Map = (m, x, cnt = 1) \Rightarrow \{ let occ = m.get(x); occ > cnt ? m.set(x, occ - cnt) : m.delete(x); \}; 
 3
 4 •
    const numberOfPairs = (a) => {
 5
         let m = counter(a), op = 0, rest = 0;
 6
         while (1) {
 7
             let remove = false;
 8 ▼
             for (const [x, occ] of m) {
 9 •
                  if (occ > 1) {
                      removeOneOrManyMap(m, x, 2);
10
11
                      remove = true;
12
                      op++;
13
                      break;
14
15
16
             if (!remove) break;
17
18
         for (const [, occ] of m) rest += occ;
19
         return [op, rest];
20
    };
```

□ Custom Testcase Use Example Testcases

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