
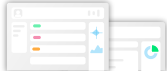


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100032. Minimum Number of Operations to Make Array Empty

My Submissions (/contest/biweekly-contest-114/problems/minimum-number-of-operations-to-make-array-empty/submissions/)

Back to Contest (/contest/biweekly-contest-114/)

You are given a **0-indexed** array `nums` consisting of positive integers.

There are two types of operations that you can apply on the array **any** number of times:

- Choose **two** elements with **equal** values and **delete** them from the array.
- Choose **three** elements with **equal** values and **delete** them from the array.

Return the *minimum* number of operations required to make the array empty, or `-1` if it is not possible.

User Accepted:	3193
User Tried:	4915
Total Accepted:	3202
Total Submissions:	6180
Difficulty:	Medium

Example 1:

Input: `nums = [2,3,3,2,2,4,2,3,4]`
Output: `4`
Explanation: We can apply the following operations to make the array empty:
– Apply the first operation on the elements at indices `0` and `3`. The resulting array is `nums = [3,3,2,4,2,3,4]`.
– Apply the first operation on the elements at indices `2` and `4`. The resulting array is `nums = [3,3,4,3,4]`.
– Apply the second operation on the elements at indices `0`, `1`, and `3`. The resulting array is `nums = [4,4]`.
– Apply the first operation on the elements at indices `0` and `1`. The resulting array is `nums = []`.
It can be shown that we cannot make the array empty in less than 4 operations.




Example 2:

Input: `nums = [2,1,2,2,3,3]`
Output: `-1`
Explanation: It is impossible to empty the array.

Constraints:

- $2 \leq \text{nums.length} \leq 10^5$
- $1 \leq \text{nums}[i] \leq 10^6$

JavaScript ▾

```
1 const counter = (a_or_s) => { let m = new Map(); for (const x of a_or_s) m.set(x, m.get(x) + 1 || 1); return m; };
2
3 const minOperations = (a) => {
4   let m = counter(a), res = 0;
5   for (const [, occ] of m) {
6     if (occ == 1) return -1;
7     let rem = occ % 3, cnt = parseInt(occ / 3);
8     if (rem == 0) {
9       res += occ / 3;
10    }
```

```
10 ▾      } else if (rem == 1) {  
11          res += cnt - 1 + 4 / 2;  
12 ▾      } else {  
13          res += cnt + 1;  
14      }  
15  }  
16  return res;  
17  };
```

☐ Custom Testcase[Use Example Testcases](#)[Run](#)[Submit](#)Submission Result: **Accepted** (</submissions/detail/1063178520/>) ⓘ[More Details >](/submissions/detail/1063178520/) (</submissions/detail/1063178520/>)

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