[2870. Minimum Number of Operations to Make Array Empty](https://leetcode.com/problems/minimum-number-of-operations-to-make-array-empty/)

Medium

1.2K

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Companies

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*.

**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 <= nums.length <= 105
* 1 <= nums[i] <= 106

function minOperations($nums) {

        $freq = array\_count\_values($nums);

        $operations = 0;

        foreach ($freq as $count) {

            if($count % 3 == 0){

                $operations += (int) ($count / 3);

            }elseif($count % 2 == 0){

                $operations += (int) ($count / 2);

            }else{

                return -1;

            }

        }

        return $operations;

    }