## 2966. Divide Array Into Arrays With Max Difference

Solved

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You are given an integer array nums of size n and a positive integer k.

Divide the array into one or more arrays of size 3 satisfying the following conditions:

- Each element of nums should be in exactly one array.
- The difference between **any** two elements in one array is less than or equal to k.

Return a **2D** array containing all the arrays. If it is impossible to satisfy the conditions, return an empty array. And if there are multiple answers, return **any** of them.

## **Example 1:**

**Input:** nums = [1,3,4,8,7,9,3,5,1], k = 2

**Output:** [[1,1,3],[3,4,5],[7,8,9]]

**Explanation:** We can divide the array into the following arrays: [1,1,3], [3,4,5] and [7,8,9].

The difference between any two elements in each array is less than or equal to 2.

Note that the order of elements is not important.

## **Example 2:**

**Input:** nums = [1,3,3,2,7,3], k = 3

Output: []

**Explanation:** It is not possible to divide the array satisfying all the conditions.

## **Constraints:**

- n == nums.length
- 1 <= n <= 10<sup>5</sup>
- n is a multiple of 3.
- 1 <= nums[i] <= 10<sup>5</sup>
- 1 <= k <= 10<sup>5</sup>

Seen this question in a real interview before? 1/4

Yes No

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Hint 1

Hint 2

Discussion (123)

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