2966. Divide Array Into Arrays With Max Difference

Description

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 <= 10^5`
- `n` is a multiple of `3`.
- `1 <= nums[i] <= 10^5`
- `1 <= k <= 10^5`