

2966. Divide Array Into Arrays With Max Difference

Solved

Medium

Topics

Companies

Hint

You are given an integer array `nums` of size `n` where `n` is a multiple of 3 and a positive integer `k`.

Divide the array `nums` into `n / 3` arrays of size 3 satisfying the following condition:

- The difference between **any** two elements in one array is **less than or equal** to `k`.

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

Python3 • Auto

```
1 class Solution:
2     def divideArray(self, nums: List[int], k: int) -> List[List[int]]:
3         nums.sort()
4         res = []
5
6         for i in range(len(nums)//3):
7             a, b, c = nums[3 * i], nums[3 * i + 1], nums[3 * i + 2]
8             if c - a > k:
9                 return []
10
11             res.append([a, b, c])
12
13         return res
14
```

Runtime

83 ms | Beats: 49.20%

Analyze Complexity

Memory

33.37 MB | Beats: 52.40%

Analyze Complexity

