

219. Contains Duplicate II

Description

Hints

Submissions

Discuss

Solution

Pick One

Given an array of integers and an integer k , find out whether there are two distinct indices i and j in the array such that $\text{nums}[i] = \text{nums}[j]$ and the **absolute** difference between i and j is at most k .

Example 1:

Input: $\text{nums} = [1, 2, 3, 1]$, $k = 3$
Output: true

Example 2:

Input: $\text{nums} = [1, 0, 1, 1]$, $k = 1$
Output: true

Example 3:

Input: $\text{nums} = [1, 2, 3, 1, 2, 3]$, $k = 2$
Output: false

Seen this question in a real interview before?

Yes

No



```
/*
 * 题意：当且仅当存在两个不同的下标i和j满足nums[i]=nums[j]并且|i - j| <= k时返回true，否则返回false
 */
public class L219 {
    public boolean containsNearbyDuplicate(int[] nums, int k) {
        //输入判断条件
        if(nums == null || nums.length < 2 || k < 1) {
            return false;
        }

        Map<Integer, Integer> map = new HashMap<Integer, Integer>();

        for(int i = 0; i < nums.length; i++) {
            if(!map.containsKey(nums[i])) {
                map.put(nums[i], i);
            }
            else {
                int value = map.get(nums[i]);
                if(i - value <= k) {
                    return true;
                }
                else {
                    map.put(nums[i], i);
                }
            }
        }
        return false;
    }
}
```