# Problem 219: Contains Duplicate II

## Problem Information

**Difficulty:** Easy
**Acceptance Rate:** 50.12%
**Paid Only:** No
**Tags:** Array, Hash Table, Sliding Window

## Problem Description

Given an integer array `nums` and an integer `k`, return `true` _if there are two**distinct indices** _`i` _and_`j` _in the array such that_`nums[i] == nums[j]`_and_`abs(i - j) <= k`.

**Example 1:**

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

**Example 2:**

**Input:** nums = [1,0,1,1], k = 1 **Output:** true

**Example 3:**

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

**Constraints:**

* `1 <= nums.length <= 105` * `-109 <= nums[i] <= 109` * `0 <= k <= 105`

## Code Snippets

**C++:**

```
class Solution {
public:
```

```
bool containsNearbyDuplicate(vector<int>& nums, int k) {

}
};
```

**Java:**

```
class Solution {
public boolean containsNearbyDuplicate(int[] nums, int k) {

}
}
```

**Python3:**

```
class Solution:
def containsNearbyDuplicate(self, nums: List[int], k: int) -> bool:
```