

[217 Contains Duplicate \(link\)](#)

Description

Given an integer array `nums`, return `true` if any value appears **at least twice** in the array, and return `false` if every element is distinct.

Example 1:

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

Example 2:

Input: `nums = [1,2,3,4]`
Output: `false`

Example 3:

Input: `nums = [1,1,1,3,3,4,3,2,4,2]`
Output: `true`

Constraints:

- $1 \leq \text{nums.length} \leq 10^5$
- $-10^9 \leq \text{nums}[i] \leq 10^9$

(scroll down for solution)

Solution

Language: *cpp*

Status: Accepted

```
#include <vector>
#include <unordered_set>
using namespace std;

class Solution {
public:
    bool containsDuplicate(vector<int>& nums) {
        unordered_set<int> seen;

        for (int num : nums) {
            if (seen.find(num) != seen.end()) {
                return true;
            }
            seen.insert(num);
        }

        return false;
    }
};
```