

217. Contains Duplicate



Easy



10.5K

1.2K



Companies

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 <= nums.length <= 105`
- `-109 <= nums[i] <= 109`

Accepted **3.1M** | Submissions **5.1M** | Acceptance Rate **61.1%**

Bruteforce:

$T(n) : O(n^2)$
 $S(n) : O(1)$

Approach 1:

Sort and then check.

$T(n) : O(n \log n)$
 $S(n) : \text{Sorting Space}$

Approach 2:

Using hashset or hashmap

By using hashset we can write single line of code.

```
return (nums.size() > unordered_set<int>(
    nums.begin(), nums.end(),
    size());
```

→ constructing a set from vector using range converter.

(or) we can also use copy() function.

(or)

we can traditionally construct a set from vector and see.

```
unordered_set<int> s;
for (auto i : nums)
    if (s.find(i) == s.end())
        return true
    else
        s.insert(i).
```

return false.