

217 . Contains Duplicate :

Problem statement :

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`

It have two approaches : first using unordered set which takes $O(1)$ complexity.

Second sort the array , if the previous index element is similar to present index return true otherwise false

I used second approach in which i take one array and sort it using sort function(we can use any sort algorithm also but time complexity matter!!).

Then compare index with its previous index if it matches return true and if not matches return false.