Contains Duplicate 1

Friday, September 13, 2024   2:37 PM

My first code:

```
class Solution {
    public boolean containsDuplicate(int[] nums)
{
        int n = nums.length;
        for (int i = 0; i < n - 1; i++) {
            for (int j = i + 1; j < n; j++) {
                if (nums[i] == nums[j])
                    return true;
            }
        }
        return false;
    }
}
```

---->TLE in my code
To optimize this, we first sort array in ascending order , so that duplicates are placed next to each other

Optimized code:
https://leetcode.com/problems/contains-duplicate/solutions/5635723/video-3-solutions-with-sorting-set-and-length/

```
class Solution {
    public boolean containsDuplicate(int[] nums)
{
        int n=nums.length;
        Arrays.sort(nums);

        for(int i=1;i<n;i++){
            if(nums[i]==nums[i-1]){
                return true;
            }


        }
        return false;
```

```
            if(nums[i]==nums[i-1]){
                return true;
            }


        }
        return false;
    }
}
```

To sort an array:
Arrays.sort();