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LEET CODE - SOLUTIONS

Contains Duplicate

Contains Duplicate

Easy

Given an integer array `nums`, return `true` if any value appears more than once in the array, otherwise return `false`.

Example 1:

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

Output: `true`

Example 2:

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

Output: `false`

HashSet in Java

HashSet is a class in Java that implements the Set interface and uses a hash table for storing elements. It is part of the java.util package.

Key Features of HashSet

No Duplicates – It does not allow duplicate elements.

Unordered Collection – It does not maintain insertion order because it uses hashing.

Allows null Value – Can store a single null value.

Fast Performance – Provides $O(1)$ time complexity for basic operations (add(), remove(), contains()) in the average case.

Uses HashMap Internally – It is backed by a HashMap where elements are stored as keys.

First Solution

Code | Java

```
class Solution {  
    public static boolean containsDuplicate(int[] nums) {  
        HashSet<Integer> seen = new HashSet<>();  
        for(int num: nums){  
            if(seen.contains(num)){  
                return true;  
            }  
            else{  
                seen.add(num);  
            }  
        }  
        return false;  
    }  
}
```

2nd Solution

Code

Java  Auto



```
1  class Solution {  
2      public static boolean containsDuplicate(int[] nums) {  
3          HashSet<Integer> seen = new HashSet<>();  
4          for(int num: nums){  
5              if(!seen.add(num)){  
6                  return true;  
7              }  
8          }  
9          return false;  
10     }  
11 }
```

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