

Thursday, April 25, 2024 5:30 PM

Question: → Contains Duplicate (LeetCode)

$[1, 2, 3, 4]$ ,  $[1, 1, 2, 2, 3, 4]$

↓  
false

↓  
true } boolean

Handwritten diagrams illustrating the sequence of numbers and their relationships:

Left side: A sequence of numbers 1, 2, 3, 4 with arrows indicating a path from 1 to 2, 2 to 3, and 3 to 4.

Right side: A sequence of numbers 1, 1, 2, 2, 3, 4 with arrows indicating a path from 1 to 1, 1 to 2, 2 to 2, 2 to 3, and 3 to 4. The sequence is followed by an ellipsis (...).

Sort  $\rightarrow [1, 2, 3, 4, 1] \Rightarrow 1, 1, 2, 3, 4$

$arr[i] == arr[j+1]$

$$\text{arr}[i] = \text{arr}[i+1]$$

$\Downarrow i < \text{size}(\text{arr}) - 1$

```
int n = arr.size()
```

Sort(arr.begin(), arr.end()) return true

```
for (int i=0; i<n-1; i++)
```



insert ↓ ↓ ↓ ↓ ↓ ↓  
 1, 2, 3, 4, 5, 6  
 false  
 ↓  
 duplicate  
 ↓  
 return true

① "Problems around duplicate  
then apply  $\rightarrow$  'HashSet'"

20/3/21

```
unordered_set<int> intSet;
```

```
for (int x: nums)
```

```
{ // check duplicates
```

```
if (intSet.find(x) != intSet.end())
```

```

    { return true;
      }

```

```

else { insert.insert(x);

```

```
use { insert.insert(n);  
}  
  
return false;
```

Video Link-1: [Contains Duplicate \(LeetCode 217\) | Full solution with HashSet explanation | Study Algorithms](#)



Video Link-2: [Contains Duplicate - Leetcode 217 - Python](#)

