217. Contains Duplicate

biven an integer array of nums, return true if any value appears at least twice in the array. False otherwise.

Ex.

Input: [1131] Input: [1134]

Output: True Output: False No duplicates

Approaches:

11 Sort array

1.1 Enumerate over array to len(array)-1

3.) For each iteration, if array[i] == array[i+1], return true.

4.) If no iteration comparisons were true, return False

Time: O(n log n)

Space: O(n)

1.) Create a set of numbers

1) Iterate over each value in array.

3) If set contains value, return True. Other vise insert value in s.

4.) Return False.

Time: O(n)

Space: O(n)

```
auto contains Duplicate (Container & container) {

using Type = typename Container:: value-type;

std:: unordered-set < Type 7 s;

for (const auto's value: container) {

if (s. contains(value)) {

return true;

}

s. insert (value);

}

return false;
```