

Given an array of integers, write a function that determines whether the array contains any duplicates. Your function should return `true` if any element appears at least twice in the array, and it should return `false` if every element is distinct.

Example

- For `a = [1, 2, 3, 1]`, the output should be `containsDuplicates(a) = true`.

There are two `1`s in the given array.

- For `a = [3, 1]`, the output should be `containsDuplicates(a) = false`.

The given array contains no duplicates.

Input/Output

- [execution time limit] 20 seconds (swift)
- [input] array.integer a

Guaranteed constraints:

$0 \leq a.length \leq 10^5$,

$-2 \cdot 10^9 \leq a[i] \leq 2 \cdot 10^9$.

- [output] boolean

[Swift3] Syntax Tips

```
// Prints help message to the console
// Returns a string
func helloWorld(name: String) -> String {
    print("This prints to the console when you Run Tests");
    return "Hello, " + name;
}
```