Code Golf — Week 12

Generics and Collections

Rules: Write a solution that is as **short** as possible (fewest characters). Any correct, compiling program counts — style doesn't matter, only length. When you're happy with your solution, count its characters with `wc -m`. The shortest correct solution wins.

Specification: Find a Duplicate

Write a method `printDuplicateStatus(int[] nums)` that prints `Duplicate!` if any value in `nums` occurs more than once, and `All unique` otherwise.

Example: `printDuplicateStatus(new int[]{14, 22, 7, 31, 22, 9})` (22 occurs twice) prints:

```
Duplicate!
```

Starting baseline

Here is a correct, unremarkable solution to start from — your job is to make it as **short** as possible while still printing the correct result for any array. You may change anything except `main` — leave it as it is. The baseline solution uses 567 characters.

```java
import java.util.HashSet;
import java.util.Set;

public class Baseline {
  static void printDuplicateStatus(int[] nums) {
    Set<Integer> seen = new HashSet<>();
    boolean duplicate = false;
    for (int i = 0; i < nums.length; i++) {
      if (!seen.add(nums[i])) {
        duplicate = true;
      }
    }
    if (duplicate == true) {
      System.out.println("Duplicate!");
    } else {
      System.out.println("All unique");
    }
  }

  public static void main(String[] args) {
    int[] nums = { 14, 22, 7, 31, 22, 9 };
    printDuplicateStatus(nums);
  }
}
```