**Arraychecker:**

**public** **class** ArrayChecker {

// Method to check if an array of integers is in ascending order

**public** **static** **boolean** isOrderedInt(**int**[] arr) {

**for** (**int** i = 0; i < arr.length - 1; i++) {

**if** (arr[i] > arr[i + 1]) {

**return** **false**;

}

}

**return** **true**;

}

// Method to check if an array of strings is in ascending (lexicographic) order

**public** **static** **boolean** isOrderString(String[] arr) {

**for** (**int** i = 0; i < arr.length - 1; i++) {

**if** (arr[i].compareTo(arr[i + 1]) > 0) {

**return** **false**;

}

}

**return** **true**;

}

}

TestArrayChecker:

import static org.junit.Assert.\*;

import org.junit.Test;

/\*\*

\* Start of the JUnit class that will be used to test Assignment 3.

\*

\* Make sure the method signatures in ArrayChecker are correct and that

\* this JUnit file works before developing the rest of the code.

\*

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\*/

public class TestArrayChecker {

@Test

public void testIntAscending() {

int[] a = {1, 2, 3, 4, 5};

assertEquals(true, ArrayChecker.isOrderedInt(a));

int[] b = {1, 1, 3, 3, 3};

assertEquals(true, ArrayChecker.isOrderedInt(b));

int[] c = {1, 2, 1, 2, 1};

assertEquals(true, ArrayChecker.isOrderedInt(c));

int[] d = {1, 2, 3, 5, 4};

assertEquals(true, ArrayChecker.isOrderedInt(d));

}

@Test

public void testStringAsscending() {

String[] s = {"a", "b", "c"};

assertEquals(true, ArrayChecker.isOrderString(s));

String[] t = {"t", "t", "z"};

assertEquals(true, ArrayChecker.isOrderString(t));

String[] u = {"b", "c", "a"};

assertEquals(true, ArrayChecker.isOrderString(u));

String[] v = {"a", "a", "a"};

assertEquals(true, ArrayChecker.isOrderString(v));

}

}