Irene Cortés Tasa GitHub: @irecortas

Días Lluvia

```
public int trimestreLluvioso() { 3 usages
    int[] trimestres = new int[4];
    for (int mes = 1; mes <= 12; mes++) {
         int n = (\underline{mes} - 1) / 3;
         for (int dia = 1; dia <= diasEnMes(mes); dia++) {
              if (consultarDia(dia, mes)) {
                  trimestres[n]++;
         }
    int maxTrim = 0;
    int maxDias = trimestres[0];
    for (int \underline{i} = 1; \underline{i} < \text{trimestres.length}; \underline{i} + +) {
         if (trimestres[i]>maxDias) {
             maxDias = trimestres[i];
             maxTrim = i;
    }
    return maxTrim + 1;
```

```
public int primerDialluvia() { 3 usages
    int contador=0;
    for (int \underline{i} = 0; \underline{i} < \text{any.length}; \underline{i} + +) {
         for (int j = 0; j < any[i].length; <math>j++) {
              contador++;
              if (any[i][j]) {
                  return contador;
    return -1;
private static int diasEnMes(int mes) { 2 usages
    switch (mes) {
         case 2:
             return 28;
         case 4:
         case 6:
         case 9:
         case 11:
             return 30;
         default:
            return 31;
```

Tests

```
class DiasLluviaTest {
    private DiasLluvia DL = new DiasLluvia(); 26 usages

    @Test
    void testRegistroDia() {
        assertEquals( expected: true, DL.registroDia( dia: 1, mes: 8, lluvia: true));
        assertNotEquals( expected: true, DL.registroDia( dia: 2, mes: 8, lluvia: false));
        assertNotEquals( unexpected: true, DL.registroDia( dia: 35, mes: 8, lluvia: true));
    }

@Test
    void testConsultarDia() {
        DL.registroDia( dia: 2, mes: 8, lluvia: false);
        DL.registroDia( dia: 3, mes: 8, lluvia: true);
        assertEquals( expected: true, DL.consultarDia( dia: 3, mes: 8));
        assertEquals( expected: false, DL.consultarDia( dia: 2, mes: 8));
        assertNotEquals( unexpected: false, DL.consultarDia( dia: 3, mes: 8));
    }
```

```
@Test
void testContarDiasLluviosos() {
    DL.registroDia( dia: 1, mes: 8, Iluvia: true);
    DL.registroDia( dia: 3, mes: 8, Iluvia: true);
    assertEquals( expected: 2, DL.contarDiasLluviosos());
    DL.registroDia( dia: 6, mes: 12, Iluvia: true);
    assertEquals( expected: 3, DL.contarDiasLluviosos());
    assertNotEquals( unexpected: 5, DL.contarDiasLluviosos());
@Test
void testTrimestreLluvioso() {
    DL.registroDia( dia: 1, mes: 8, Iluvia: true);
    DL.registroDia( dia: 3, mes: 8, Iluvia: true);
    assertEquals( expected: 3, DL.trimestreLluvioso());
    DL.registroDia( dia: 11, mes: 3, Iluvia: true);
    DL.registroDia( dia: 1, mes: 2, Iluvia: true);
    assertEquals( expected: 1, DL.trimestreLluvioso());
    assertNotEquals( unexpected: 4, DL.trimestreLluvioso());
@Test
void testPrimerDiaLluvia() {
    DL.registroDia( dia: 1, mes: 2, Iluvia: true);
    assertEquals( expected: 32, DL.primerDialluvia());
    DL.registroDia( dia: 16, mes: 1, Iluvia: true);
    assertEquals( expected: 16, DL.primerDiaLluvia());
    assertNotEquals( unexpected: 135, DL.primerDiaLluvia());
```