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Cátedra: Taller de Ingeniería de Software

## • Enunciado:

- 1. Crear un método de testing en la clase DayTest para verificar que findSpace retorne el valor 10 para una cita de una hora, si en el día ya se cuenta con una cita a las 9am.
- 2. Crear un test para verificar que el método findSpace retorna el valor de -1, si se hace un intento de agendar una cita en un día que esté lleno.
- Crear un test negativo (usar la instrucción assertFalse) para el siguiente caso. Intentar inicializar una cita de un ahora y luego poner una cita de dos horas a la misma hora. Que sucede cuando corre el test? Incluir un screenshot en el reporte.
- 4. Hacer cambios al programa para que acepte citas de media hora. Testear.

## Test n°1:

Para este primer test se llamará a la función *makeAppointment()* para generar la primera cita con la hora y el nombre de la cita. Después se ocupará *findSpace()* la que buscará alguna cita que esté vacía en la hora más cercana para así que la agenda.

```
@Test
    //Test 1: findSpace debe retornar 10 si el día ya cuenta con una cita a
las 9am.
    public void testUno()
    {
        System.out.println("Test 1: Retorno 10");
        day1.makeAppointment(9, a1);
        int retorno = (int) day1.findSpace(new Appointment("Cita", 1));
        System.out.println("Encontrado "+retorno);
        day1.showAppointments();
        assertEquals(10, retorno);
}
```

```
👄 eclipse-workspace - TareaTesting/src/cl/ulagos/test/DayTest.java - Eclipse IDE
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   Q Prunctional Test Specification
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 Package Explorer dt JUnit ⊠
                                                                                                                                                                                                                                                                                                                                                                                 //when makeAppointment 900-1400 (5h @ 900)
Appointment longAppointment = new Appointment("loocong",5);
boolean actual = dayl.makeAppointment(9,longAppointment);
//then should fail
assertEquals(false, actual);
                                                                                                                                                                                                                                                                                                                                          @Test
//Test 1: findSpace debe retornar 10 si el dia ya cuenta con una cita a las 9am.
public void testUno()
{
                       t5_appointmentTooEarlyShouldFail() (0,000 s)
testDos() (0,000 s)
                     | System.out.println("Test 1: Retorno 18"); | System.out.println("
                       di W_longerAppointmentOverlappingOtherShouldFail0 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 |
                                                                                                                                                                                                                                                                                                                                                                         System.out.println("Test 2: Retorno -1");
fillDay();
Failure Trace
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  - X % | 3, a | 4 | 5 | 4 | 7 |
                                                                                                                                                                                                                                                                                           Problems @ Javadoc Declaration Console X
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                                                                                                                                                                                                                                                                                           Test 1: Retorno 10
Encontrado 10
=== Day 1 ===
9: one hour appointment a1
```

## Test n°2:

Para que la función *findSpace()* retorne -1, se tiene que hacer primero que llenar un día, así que se llama a la función *fillDay()*. Con la variable creada *retornoNegativo* se va a poder calcular si alguna hora del día creado se encontrará vacío y de no ser así imprimirá en pantalla el -1 tal y como se pide en el enunciado.

```
@Test
// Test 2: findSpace retorna -1 en un dia lleno
public void testDos()
{
        System.out.println("Test 2: Retorno -1");
        fillDay();
        int retornoNegativo = (int)day1.findSpace(new Appointment("Cita", 2));
        day1.showAppointments();
        assertEquals(-1, retornoNegativo);
        System.out.println("------");
}
```

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