Investigating cause of an apparent bug

LAB 9

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Introduction

- Systems evolve over time to support new features or for their own improvement.
- They might also evolve to fix bugs or to be ported to new platforms.
- Whenever the source code is altered there is a good chance that it has been broken in some way.
- Hardware simulator has been evolved for this lab exercise.

What to do today

- Download simulator-1.2.2.zip from D2L.
- In this you will find a JUnit 4 test case called AbstractHardwareTest (under the test package).
- Run it as Junit test.
- There will be a failure and you have to investigate the cause of the failure.

Setting up a break point

```
43
44      assertTrue(l2.fooCalled);
45      assertTrue(l1.fooCalled);
46      }
47  }
```

- Double click on the left of line number to set a break point.
- When the code is debugged the execution stops at the break point. It stops after executing the code before it.
- Press F6 to move to next line after the break point.

Setting up a break point

```
37      MyListener l1 = new MyListener(), l
38
39      register(l1);
40      register(l2);
41
42      notifyListeners(MyListener.class, "
43
44      assertTrue(l2.fooCalled);
45      assertTrue(l1.fooCalled);
46      }
47  }
48
```

- Press F8 to directly move to the next breakpoint.

Start with lab exercise 9

- Follow the instructions on D2L.