

**Malmö University**

**Faculty of technology and society**

**Advances in Software Development – DA616A**

**Unit test/TDD lab**

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**QUESTION (3a1)**: What type of code coverage is measured by the tool (statement,

branch, path or condition)? Is it possible to choose more than one type?

**Answer:** Code coverage that is measured by the tool can be branches, lines, methods, types, conditions and classes. Yes, it is possible to choose more than one type.

**QUESTION (3c1)**: What is the maximum code coverage you reach when executing your tests?

**Answer:** 86.6% before correcting the defects and 100% after correcting the defects

**QUESTION (3c2)**: Which defects did you find?

**Answer:** Some letters were missing in the source code like D and g.

**QUESTION (3c3)**: How did you correct the defects?

**Answer**: By adding missing letters in the source code.

**QUESTION (3c4)**: Do all test cases pass once the defects have been corrected?

**Answer:** Yes

**QUESTION (4c1)**: How many state transitions (compare 0-switch, 1-switch, etc.

mentioned in the lecture) are reasonable to test in this case?

**Answer:** Three state transitions are possible in each state. 0-switch have 6 possible transitions and 10 for 1-switch. Then we also have 6 illegal state transitions which need to be tested.

**QUESTION (4f1)**: How much code coverage do you reach with your tests?

**Answer:** 99.0%