Question set 07

The usual (correct) sequence of testing is:

- Integration tests, unit tests, system tests
- unit testy, integration tests, system tests
- system tests, integration tests, unit tests

Testing can reveal:

- performance
- errors
- absence of defects

Testing with knowledge of internal SW structure is called as:

- Verification
- Validation
- Whitebox testing

Testing against SW functional specification is called as:

- Validation
- Whitebox testing
- Blackbox testing

The V-Model:

- Shows that each development phase has respective testing activities
- Illustrates both validation and verification effort
- Implies that you can start testing even when the code is not yet written

Test Drivers are used during:

- Unit tests
- Top-down integration testing
- Bottom-up integration testing

So-called „stubs" are used during:

- Unit tests
- Top-down integration testing
- Bottom-up integration testing

Cyclomatic complexity shows how elaborate is:

- Whitebox testing
- Blackbox testing
- Integration testing

The testing activities are most efficient when:

- it is performed by author of the code
- it is performed by a quality team which does not cooperate with developers
- quality team cooperates with developers team

Choose what applies to testing:

- complete testing is possible, but only for simple programs with very low cyclomatic complexity
- complete testing is never possible
- complete testing is usually not possible, even for simple programs if they have high cyclomatic complexity

Majority of defects result from improper:

- requirements collection
- system architecture
- errors during programming

Successful test:

- confirms existence of known defect
- confirms absence of known defect
- confirms existence of not-yet-known defect
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