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In class Assignment 3

* Discuss software correctness. Have you thought of correctness in software as possible or impossible? Do you agree with the claim in the book, or is it hard to accept?

Corrects is success program execution while meeting all requirements. Correctness is definitely impossible to prove through testing. Testing will only show if bugs exist in Software so there is no actual way to demonstrate correctness with tests. Yes I agree with the book, this stance makes sense.

* Discuss test oracles.

Test oracles are repositories that contain expected values for test cases. The oracle is also a mechanism for comparing the expected results to the actual results generated from the test execution. After a test set executes, the oracle with create a report with the results and show the side by side comparisons. Oracles are intended to work WITH DOCUMENATAION because without documentation, the system can turn into a chaotic mess when the pairs of expected values and test cases get mixed up.

* Discuss coverage criteria. Why do software organizations use coverage criteria? Why don’t more software organizations use coverage criteria?

Coverage criteria determines how test engineers create software tests. Most importantly, these criteria give absolute start and end points for testing. These criteria could be statement, branch, and condition or path coverage. The main reason organizations use criteria would be to increase effectiveness of testing and to define a project structure around testing activities. Two draw backs are the cost and knowledge needed to create useful test criteria from source code. Generating abstraction’s requires more in-depth knowledge than programming skill alone.