COMP 2710 Notes

20 September 2022

Clear Box Testing

* Focuses on internal states of objects and code.

Statement Coverage

* Traditional target: statement coverage
  + Need to write test cases that cover all nodes in the control flow graph
* Intuition: code that has never been executed during testing may contain errors.
  + Often this is the :low probability code.

Branch Coverage

* Target: write test cases that cover all branches of predicate nodes.
* True and false branches of each if.
* The two branches corresponding to the condition of a loop.

If NDEBUG is defined, assert does nothing; however if not defined, assert checks if its argument (which must have a scalar type) compares equal to zero.