

Pragmatic Unit Testing – CheatSheet 1.1

Right-BICEP		
R	Are the results right ?	Use data files, golden bits, oracle...
B	Are all boundary conditions CORRECT	Conformance, O rdering, R ange, R eference, E xistence, C ardinality, T ime.
I	Can you check inverse relationships?	Apply logical inverse (e.g. sqrt vs pow).
C	Can you cross-check results using other means?	Use alternative way of achieving result.
E	Can you enforce error conditions to happen?	What errors could occur, e.g. environmental constraints.
P	Are performance characteristics within bounds?	Quick regression test of performance characteristics.

CORRECT		
C	Conformance	Any specific data format? What if the format is different?
O	Ordering	Order of data or position of an element? Reverse order?
R	Range	Start and end of indices, first is greater than last, index is negative, index is greater than allowed, count doesn't match number of actual number of items...
R	Reference	Any external dependencies? Any preconditions? Do we guarantee post-conditions?
E	Existence	Does some given thing exist? Null, blank, empty, 0 (zero)?

A-TRIP (Good Tests)		
A	Automatic	Running the test and checking the results should be automatic.
T	Thorough	Well-tested methods may have 4-5 asserts.
R	Repeatable	Run over and over again, in any order produce the same results.



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