

Chapter 7
Boundary conditions:
the Correct way

[C]ORRECT: Conformance

- Many data elements must conform to a specific format.
 - Example: e-mail (always name@domain).
- Test when your input is not in conformance with what is expected.

C[O]RRECT: Ordering

- The order of the data might influence the output.
- What happens if the list is ordered? Unordered?

CO[R]RECT: Range

- Inputs should usually be within a certain range.
 - Example: Age should always be greater than 0 and smaller than 120.
- In most programming languages, basic types give you more than you need.

COR[R]ECT: Reference

- When testing a method, consider:
 - What it references
 - External dependencies
 - It depends on the object being in a certain state
 - Any other conditions that must exist

CORR[E]CT: Existence

Does something really exist?
 What if it doesn't?

CORRE[C]T: Cardinality

- Off-by-one errors
- Loops:
 - Zero
 - One
 - Many

CORREC[T]: Time

- Ordering in time
 - What happens if I forget to invoke a() before b()?
- Timeouts
- Date/Time operations
 - Should we use UTC? GMT?
- Concurrency