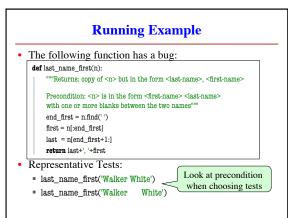


Representative Tests

- Cannot test all inputs . "Infinite" possibilities
- · Limit ourselves to tests that are representative
 - Each test is a significantly different input
 - Every possible input is
 - similar to one chosen
- An art, not a science
 - If easy, never have bugs
 - Learn with much practice

Representative Tests for number_vowels(w)

- Word with just one vowel
- For each possible vowel!
- Word with multiple vowels
 - Of the same vowel Of different vowels
- · Word with only vowels
- Word with no vowels



Unit Test: A Special Kind of Module

- A unit test is a module that tests another module
 - It imports the other module (so it can access it)
 - It imports the cornelltest module (for testing)
 - It defines one or more test procedures
 - · Evaluate the function(s) on the test cases
 - · Compare the result to the expected value
 - It has special code that calls the test procedures
- · The test procedures use the cornelltest function
 - **def** assert_equals(expected, received):
 - """Quit program if expected and received differ"""

