Read 3 integers taken to represent the lengths of the sides of a triangle. Decide if triangle is isosceles, equilateral or scalene.

Math: A valid triangle must meet 2 conditions. No side may have a length of zero, and each side must be longer than the sum of all sides divided by 2. If $s$ is this sum:

- $s = \frac{(a + b + c)}{2}$
- then $s > a$, $s > b$, and $s > c$ must hold
- if $a == b == c$ then equilateral, if 2 sides are equal then isosceles, else scalene

Experienced programmers find 7.8 test cases on average

Myers suggests 14, Binder: 65 wrt a Java implementation:

- Figure 1.1 p.4: class hierarchy
- Figure 1.3 p.6: Java interface
- Table 1.1 p.7:
  - permutations, invalid and boundary inputs are important
  - one must exercise all ways of violating a condition
- Tables 1.2 and 1.3: code (esp. drawing and inheritance) considerations