Correctness of if-statements

**Strategy for testing code with if-statements**  
(particularly ones with complicated conditions):

- Devise examples for all cases (for the example from online exercise 3: the various pass/fail scenarios).

  Make sure that you have not missed any cases!

- Test your solution for all examples (test cases).

Correctness of loops

**Strategy for testing code with loops (while, for, …):**

- Use the WFI (world-famous iteration – see Snyder) standard construction whenever possible.

- Simulate the loop (e.g., on paper) for multiple test cases (e.g., inputs, values of important variables).  
  **Alternative:** Add test output in loop body and run for test cases

- Check carefully that the loop always terminates  
  (Are you correctly updating counter variables, …?)