Exercises 2 – 6 are programming problems. Submit them in a single file named a02.rkt electronically per the instructions for your course. Exercises 7 – 9 are written exercises. Type your solutions in a word processor or text editor and submit them in a single pdf file named a02written.pdf electronically per the instructions for your course.

1. Study Hailperin, Chapters 2, 3.

2. Do Hailperin, programming Exercise 2.1.

3. Do Hailperin, programming Exercise 2.8(c).
   Use your function power from Exercise 2.1.

4. Do Hailperin, programming Exercise 2.10.
   Name your function num-odd-digits.

5. Do Hailperin, programming Exercise 2.15.
   Be sure to include pinwheel with your other functions from Assignment 1. Error in book: pin-wheel should be spelled pinwheel.


7. Do Hailperin, written Exercise 2.18.
   Use the proof style as given in class.

   The question is asking why the procedure generates a recursive process as opposed to an iterative (tail-recursive) process.

9. Do Hailperin, written Exercise 3.15.