

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`.
6. Do Hailperin, programming Exercise 3.14(b).
7. Do Hailperin, written Exercise 2.18.  
Use the proof style as given in class.
8. Do Hailperin, written Exercise 3.14(a).  
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.