Chapter 2 outline:

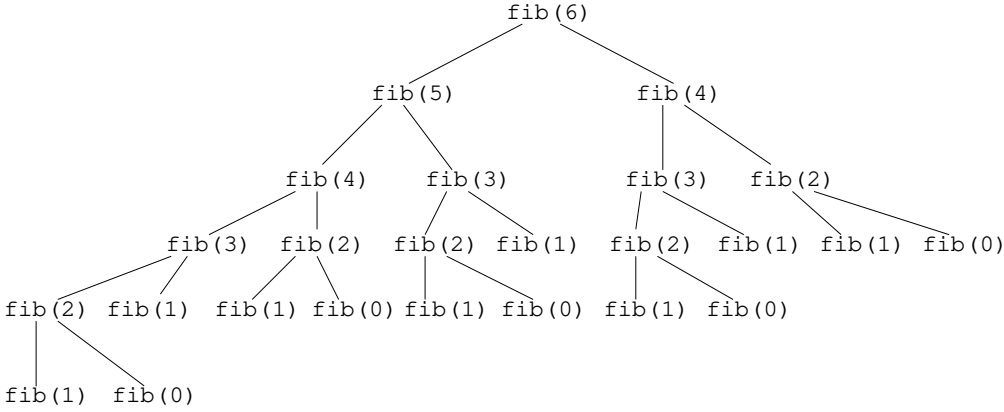
- Mathematical sequences and Python lists (Monday)
- Recurrence relations and recursive functions (Wednesday)
- Functions on lists (**today**)
- More functions on lists (next week Monday)
- Review Chapter 1 & 2 (next week Wednesday)
- Test on Chapters 1 & 2 (next week Friday)

Today:

- Tidying up a few bits from last time
- Hints on the homework
- Recursive list-to-value functions
- Recursive list-to-list functions

The ideas introduced in Sections 2.2 (last time) and 2.3 (today and next time) include

- Recursion, or defining a object or process self-referentially.
- Decision-making using conditional expressions and statements.
- Storing values in local (temporary) variables so that the values can be reused instead of recomputed.
- Algorithms for building sets and lists recursively.
- Algorithms for processing lists recursively.
  - List-to-value
  - List-to-list
  - Sorting lists


fib(6)
fib(5)
fib(4)
fib(4)
fib(3)
fib(3)
fib(2)
fib(3)
fib(2)
fib(2)
fib(1)
fib(2)
fib(1)
fib(1)
fib(0)
fib(2)
fib(1)
fib(1)
fib(0)
fib(1)
fib(0)
fib(1)
fib(0)
fib(1)
fib(0)

For next time:

Do Exercises 2.3.(2,4,5,9,10).
(All programming—nothing on paper this time)

Re-read Section 2.3 as necessary

(No quiz)