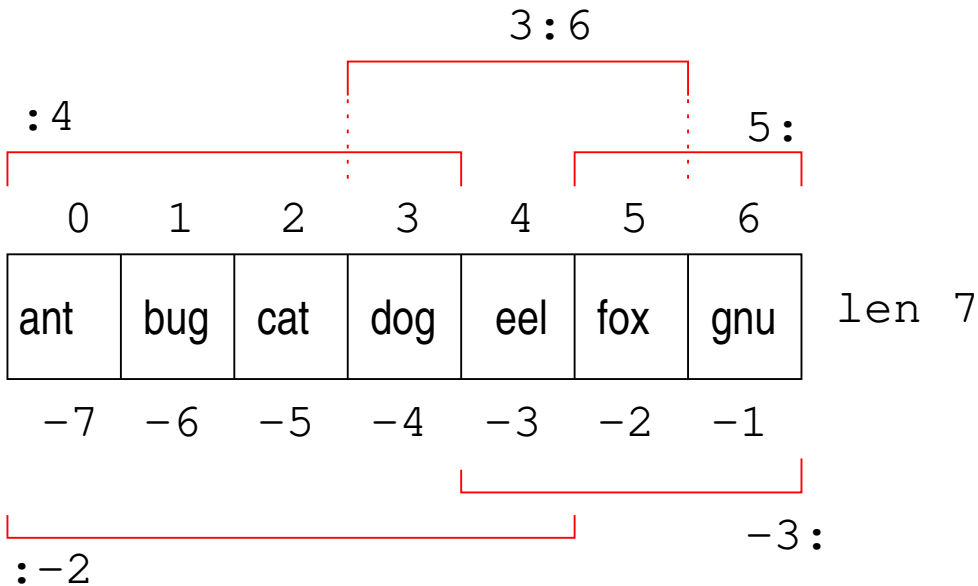


Chapter 2 outline:

- ▶ Mathematical sequences and Python lists (Monday)
- ▶ Recurrence relations and recursive functions (**today**)
- ▶ Functions on lists (Friday)
- ▶ More about functions on lists; sorting (next week Monday)
- ▶ Review for test (next week Wednesday)
- ▶ Test on Chapters 1 & 2 (next week Fri, Feb 7)

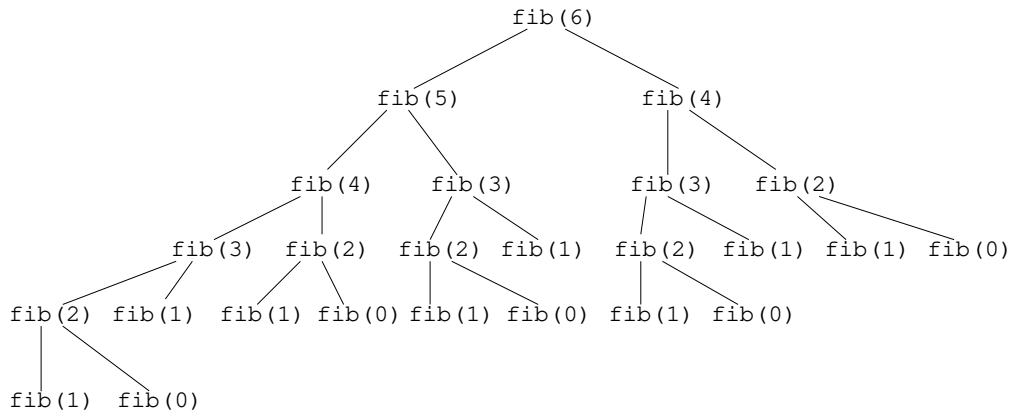
Today:

- ▶ Recurrence relations
- ▶ Python pieces
- ▶ Recursive functions
- ▶ Functions to build lists



The ideas introduced in Sections 2.2 (today) and 2.3 (next time and Monday) 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.



For next time:

Do Exercises 2.2.(2, 3, 8, 9, 12).

Note that Exercise 2.2.12 (powerset) requires your solution to an exercise from a previous assignment: You'll need to grab your code from Exercise 1.8.13 (add to each).

Read 2.3

Take quiz (short)