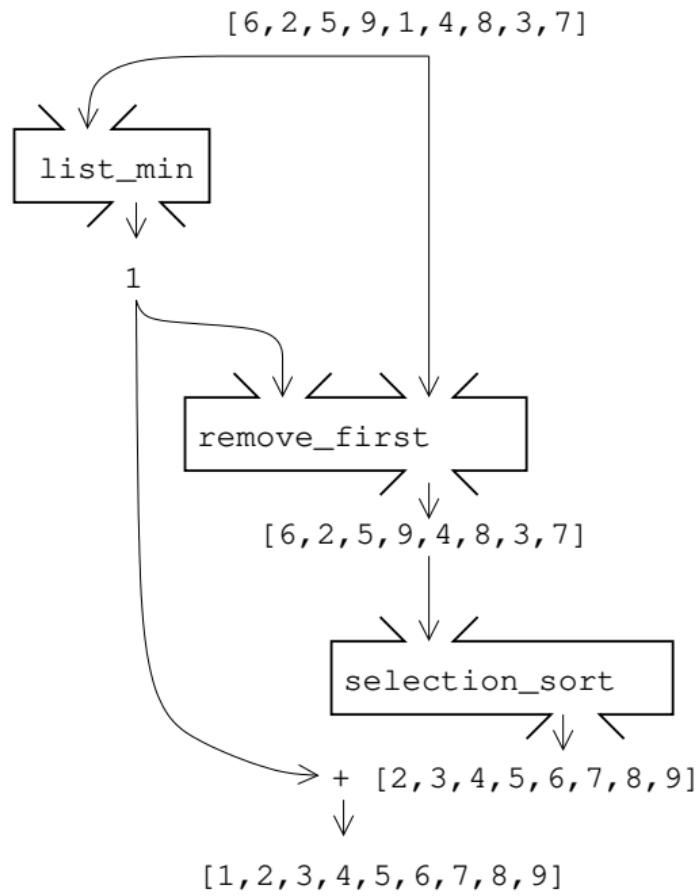


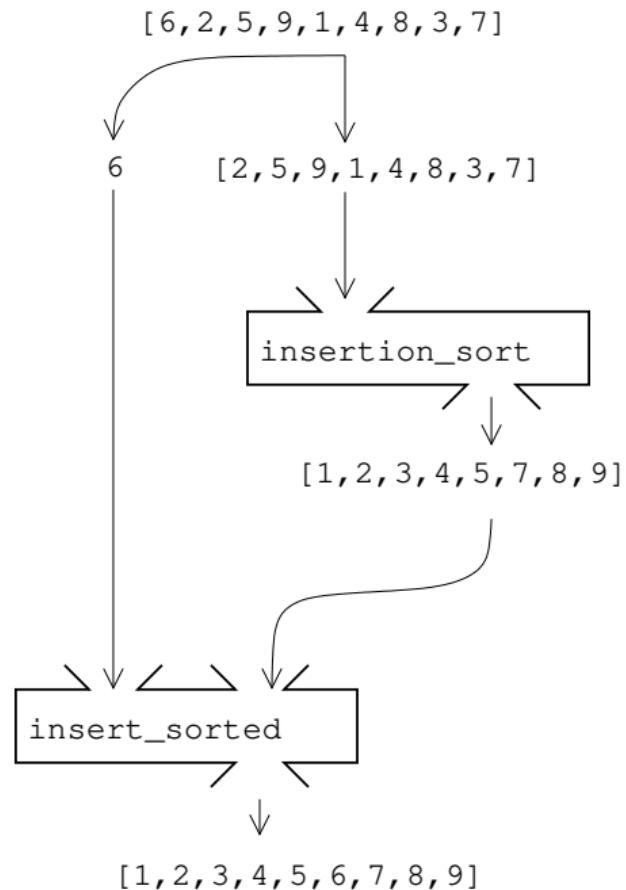
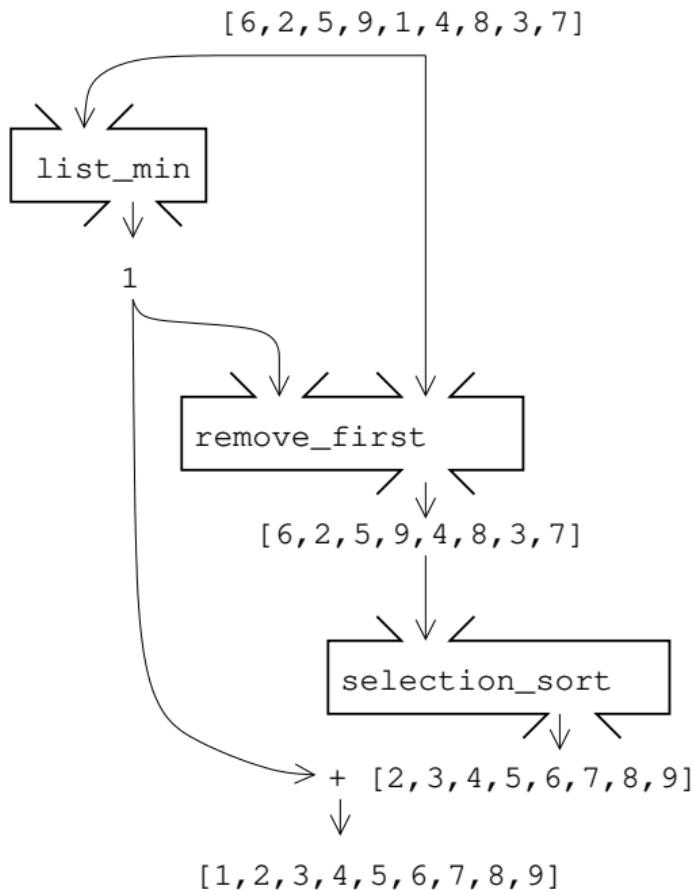
## Chapter 2 outline:

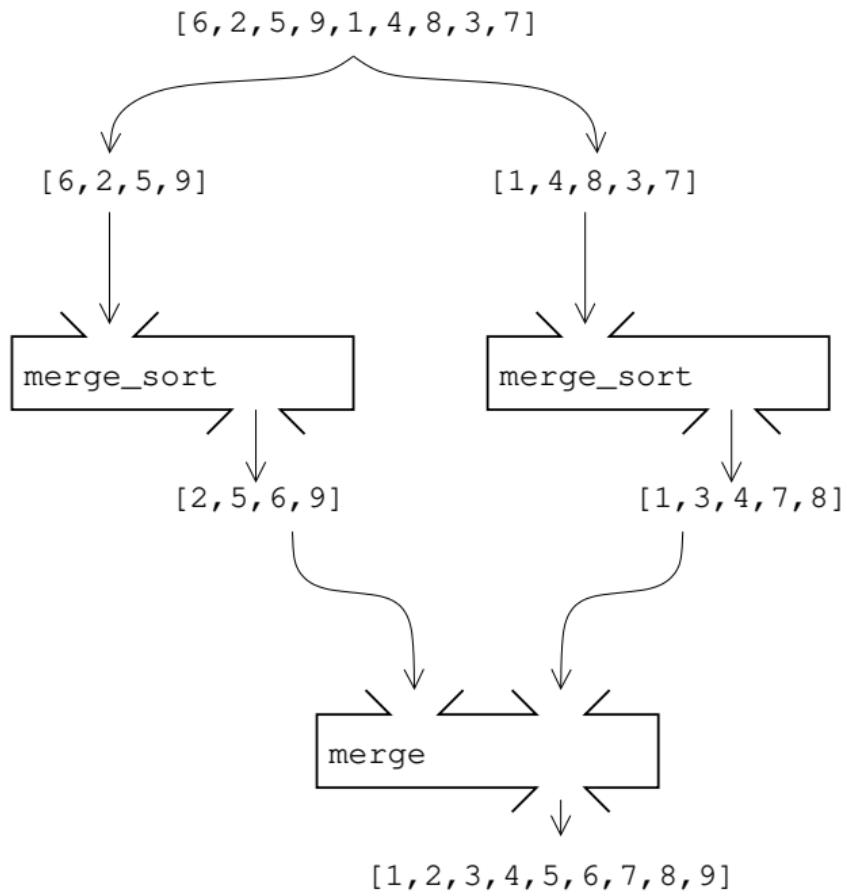
- ▶ Mathematical sequences and Python lists (last week Wednesday)
- ▶ Recurrence relations and recursive functions (last week Friday)
- ▶ Functions on lists (Monday)
- ▶ More about functions on lists; sorting (**today**)
- ▶ Arrays, vectors, and intervals (Friday)
- ▶ Review for test (next week Monday)
- ▶ Test on Chapters 1 & 2 (next week Wednesday, Sept 24)

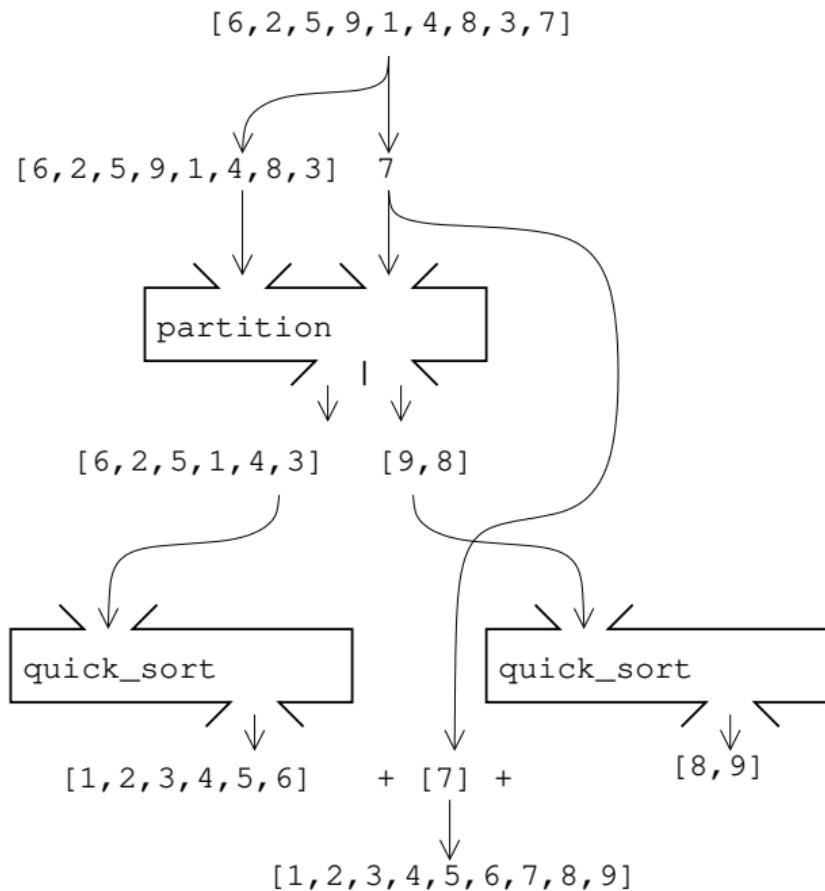
## Today:

- ▶ Review of principles of recursive functions on lists
- ▶ Sorting algorithms
  - ▶ Selection sort (worked out in book)
  - ▶ Insertion sort (Ex 2.3.(12 & 13)—work out in class)
  - ▶ Merge sort (Ex 2.3.(14 & 15)—HW for next time)
  - ▶ Quick sort (Ex 2.3.(16 & 117)—HW for next time)









**For next time:**

*Do Exercises 2.3.(14–17).*

*(All programming—nothing on paper this time)*

*Read Section 2.4*

*Take quiz (short)*