Week 4 — September 27, 2018

Homework

- Read chapter 7 pp. 287-298 and chapter 8 in "Beginning C"

- Read section 8.3 (pp. 92-96), sections 14.1-14.2 (pp. 195-198), chapter 15, and section 17.1 (pp. 223-226) in "Writing Scientific Software"

Exercises

1. Take this quiz to test your understanding of **functions**

2. Go to CodeJudge to do the "Week 04" exercises.

3. Do exercises 7-1 and 7-4 in "Beginning C"

4. Multi-file projects and dynamic allocation of two-dimensional arrays:

   - Write a function for allocating a two-dimensional `double` array of size $m \times n$ and write another function for deallocating the array. Implement both functions in a source file `array.c` and create separate header file `array.h` with function prototypes.

   - Write a short program to test your array allocation/deallocation functions. Use a separate source file to implement the `main()` function.

   - Create a makefile for building your program.

5. Do exercise 8-1 in "Beginning C"

   - Structure your code using functions, and write a Makefile for building your program.

   - Hint: Reuse your code from exercise 7-1.