Lecture 16: May 8, 2023

Reading: *zyBooks text*, §10, 8.6–8.7   **Assignments:** Homework 2 and Extra Credit 2, due May 10

1. Announcements
   (a) Class on Wednesday, May 10 is in person
   (b) Midterm is Friday, May 12, *in person*

2. How to write a recursive program
   (a) Recursive selection sort (*sort.c*)

3. Dynamic memory allocation
   (a) Library functions `malloc`, `realloc`. `calloc`, `free`
   (b) Example: change *sort.c* to handle any number of numbers (*usort1.c*)

4. Structures
   (a) User-defined datatype for grouping data
   (b) As fields: `var.field`, `ptrvar->field`
   (c) Use example of list of numbers (*usort2.c*)
   (d) Do insertion sort (*linked.c*)