

Lecture 17: May 10, 2023

Reading: *zyBooks text*, §8.6–8.7

Assignments: Homework 2 and Extra Credit 2, due May 10

1. Announcements
 - (a) Midterm is Friday, May 12, *in person*
2. 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*]
3. Parallel arrays and arrays of structures
 - (a) Show parallel arrays to sort planets in order of diameter [*planets1.c*]
 - (b) Show same program using structures [*planets2.c*]
 - (c) `typedef`
 - (d) Reading planets from a file, and allocating space for them in an array
 - (e) Reading planets from a file, and using a linked list [*planets3.c*, *planets4.c*]