

CSE 303: Concepts and Tools for Software Development

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Spring 2005

Lecture 9— C: structs, heap-allocation, initialization, memory
management

Where are We

We are learning C, a lower-level and less-safe language than Java So far:

- Basic control constructs
- Left vs. right expressions
- The address-of (&) and dereference (*) operators
- Some strange rules for arrays

Today:

- structs
- memory management
- initialization

Later: header files, the preprocessor, printf, casts, function pointers, gotchas

From last time...

A couple points that got lost in the shuffle:

- Dangling pointers and *lifetime vs. scope*
- Declarations should precede uses