C

CS 2130: Computer Systems and Organization 1

October 21, 2022
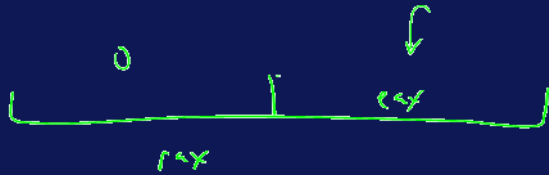
Announcements

- Quiz 7 opens tonight, submit Monday by 8am
- Homework 6 due Monday at 11pm (binary bomb phases)

Simple C Example

```c
int main() {
    return 0;
}
```

The **main** function

- Start running the **main()** function
- **main** must return an integer - **exit code**
    - **0** = everything went okay
    - Anything else = something went wrong
- There *should* be arguments to main

Example

Data Types in C

Integer data types

- char
- short
- int
- long
- long long

Each has 2 versions: *signed* and *unsigned*

Data Types in C

Floating point

- float
- double

Data Types in C

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Pointers - how C uses addresses!

Data Types in C

Pointers - how C uses addresses!

- Hold the address of a position in memory
- Need to know the kind of information stored at that location