Using Pointers with Structures



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A Pointer

Holds a memory location

Holds the address of another variable

Contains the address of a chunk of RAM



What's the Point?

C is a mid-level language

Pointers grant access to RAM locations

Pointers examine and manipulate RAM



Pointer Rules

A Pointer's data type must match the referenced variable

- char a;
- char *ptr;

As with all C variables, a Pointer must be initialized before use



The Duality of the Pointer

Declare a Pointer with an asterisk

- int *ptr

Use the Pointer with or without the asterisk

- ptr address
- *ptr value_at_address



Module Challenge



Declare a variable

Initialize a Pointer to the variable

Output the address of the variable using

- the variable itself
- the Pointer



Module Summary



Now you can

- Create and initialize pointers
- Use pointers with arrays
- Use pointers with structures

