

Week 6

# This Week

- Hexadecimal
- Enumerated Types
- Structs
- Linked Lists
- File I/O

# Enumerated Types

- Allows us to create our own type with a finite set of possible values.
- Abstraction makes code easier to understand and work with.

# Enumerated Types

Examples of Possible Finite Sets:

- {WIN, LOSE, DRAW}
- {YES, NO, MAYBE}
- {SMALL, MEDIUM, LARGE, XL}
- {TALL, VENTI, GRANDE}
- {WINDOWS, MAC\_OS, LINUX}

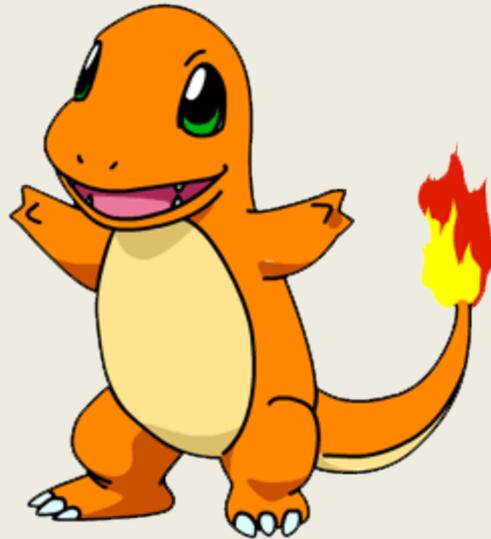
# Structs

- Structs provide a way of bundling together related values.
- May be passed either by value or reference to functions.



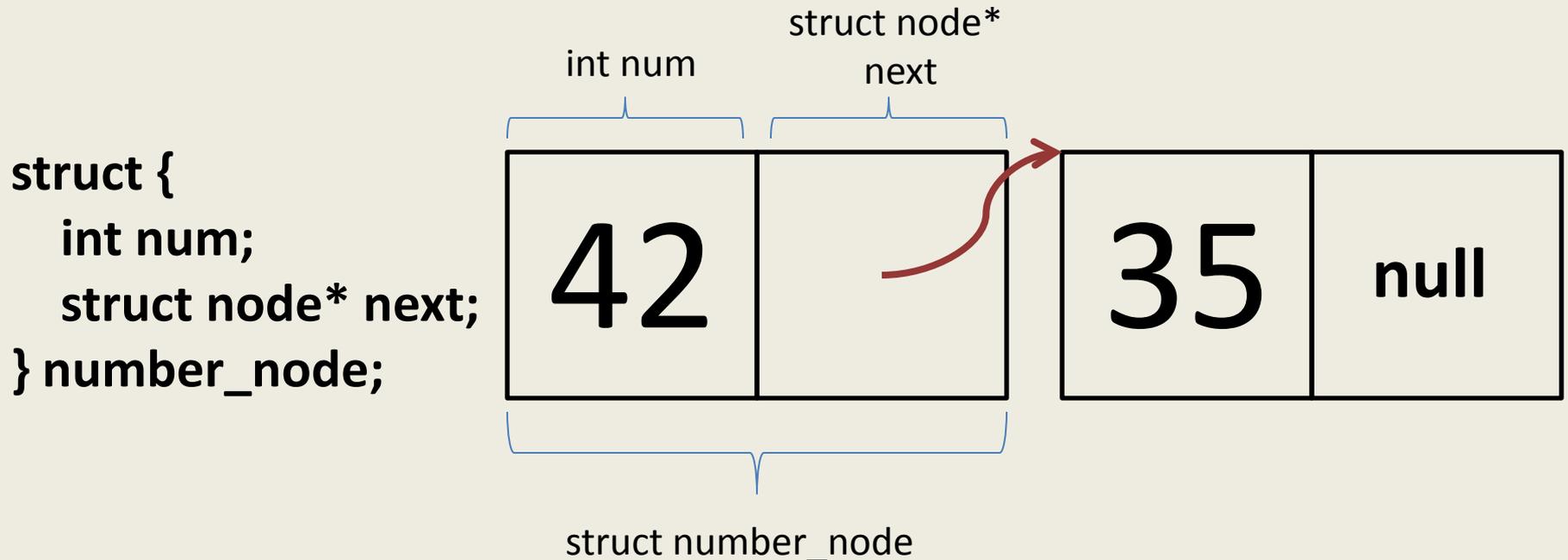
# Structs

```
struct pkmn  
{  
    char* name;  
    char* type;  
    int hp;  
};
```



# Linked Lists

- Data structure composed of a set of structs.
- Each struct contains a piece of data and a pointer to the next struct.



# File I/O

- Normally, we read from stdin, write to stdout.
- Sometime, we want to also read/write from/to files.