CS 161
Intro to CS I

Begin Structs
Odds and Ends...

- What do you need help with?
- Last week to demo Assignment 5.
- Assignment 6 due Sunday.
Structures

• Data Structures So Far...
  – Variables
  – Arrays

• What if we want mixed types?
  – Record: name, age, weight, etc.
  – Use **struct** type
Struct/Members

```c
struct doc_record {
    char name[50];
    int age;
    float weight;
};
```

- What does this do?
- How do we use it?
Struct Type

struct doc_record{
    char name[50];
    int age;
    float weight;
};  //creates a user defined type, doc_record

int main() {
    doc_record garrett;  //use it as a type
    ...
}

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```cpp
#include <iostream>

using namespace std;

struct book {
    char name[50];
    int version;
    int pages;
    double cost;
    char author[50];
};

int main() {
    book cs;

    cout << "name of book: ";
    cin >> cs.name;

    cout << cs.name;
    return 0;
}
```