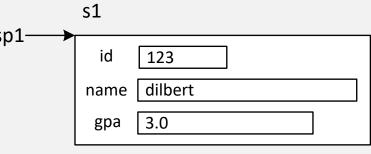


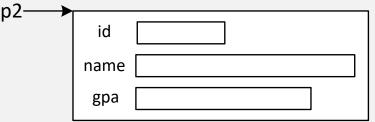
STRUCTURES AND POINTERS

Pointers To Structures

Delroy A. Brinkerhoff

POINTING TO A STRUCTURE







MEMBER SELECTION REVISITED

cout << s1.id << endl; cout << sp1->name << endl; cin >> sp2->gpa; •s1.id



MEMBER SELECTION REVISITED

cout << s1.id << endl; cout << sp1->name << endl; cin >> sp2->gpa; •s1.id



INDIRECTION / DEREFERENCING

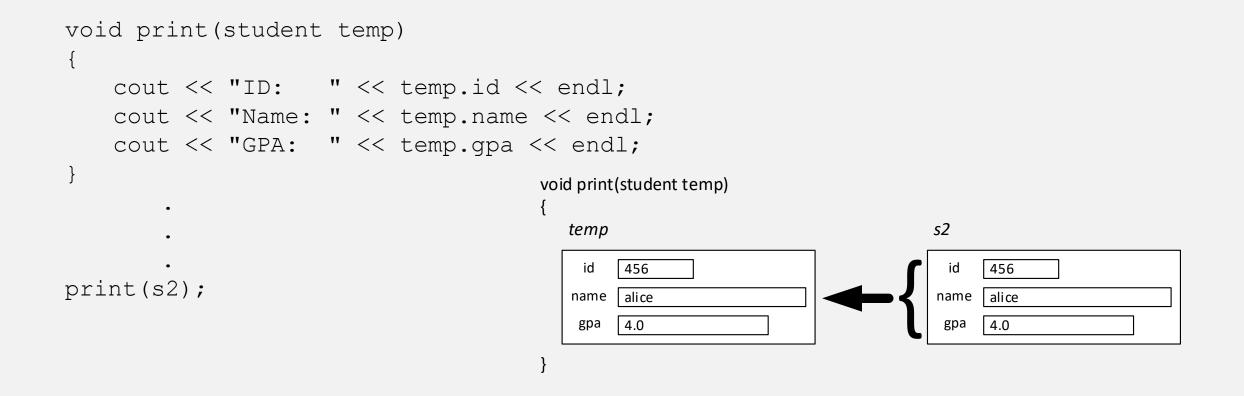
student* sp2 =
 new student { 987, "alice", 4.0 };

student s2 = *sp2;

i	
id	987
name	alice
gpa	4.0
	Copy
s2	CO
id	987
name	alice
gpa	4.0
	name gpa s2 id name

STRUCTURES AS FUNCTION ARGUMENTS

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POINTERS AS FUNCTION ARGUMENTS

```
void print(student* temp)
{
    cout << "ID: " << temp->id << endl;</pre>
    cout << "Name: " << temp->name << endl;</pre>
    cout << "GPA: " << temp->qpa << endl;</pre>
                                       void print(student* temp)
                                                                   s2
                                          temp
print(&s2);
                                                                    id
                                                                         456
student* s3 = new student;
                                                                         alice
                                                                   name
print(s3);
                                                                    gpa
                                                                        4.0
```


IN AND OUT ARGUMENTS

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```
void read(student* temp)
{
    cout << "Enter a student id: ";
    cin >> temp->id >> endl;
    cout << "Enter a student name: ";
    cin >> temp->name >> endl;
    cout << "Enter a student gpa: ";
    cin >> temp->gpa >> endl;
}
```

student s;

read(&s);