**CS2 1-11-22 Lecture**

**Assignment 1 Notes:**

* Selection Sort
  + Must use temporary variable (3 instructions)
* Would it be nice to instead of switching a bunch of different arrays, to just switch a large chunk of information (name, id, address, age)

**Struct**

* Data structure
* Group of related items of different types (some languages call this a record)
* Ex:

struct StudentType

{

string firstName; //member names & types

string lastName;

int age;

double gradePointAverage;

};

StudentType student; //declare variable

//Accessing members

Student.firstName =”John”;

Student.lastName =”Doe”;

Student.age = 19;

Student.gradePointAverage = 3.75;

//Assignment

StudentType person;

Person = student;

//Comparing structs

~~if (student < person)~~ //CANNOT DO THIS

if(student.age < person.age) //CAN DO THIS

//Input/Output

~~Cin >> student;~~

~~Cout << student;~~  //CANNOT DO THIS

void print (StudentType guy)

{

cout << guy.firstName << “ “

<< guy.lastName << “ “

<< guy.age << “ “

<< guy.gradePointAverage << endl;

}

Void modifyStudentAge (StudentType &student)

{

Cout << “What is the student age? “;

Cin >> student.age;

}