

Fall '10 CIS 122 Final Review

You may bring one page of notes, front and back.

You may bring a calculator but shouldn't need one.

Questions will be in short-answer format with partial credit for partial answers.

Questions will require you to read C++ code.

You will not be asked to write C++ code, but may be asked to write pseudocode (i.e., code that unambiguously describes your solution but is not required to compile).

You will not be asked questions about functions declared in predefined headers (e.g., `iostream`, `cmath`).

Topics:

- All midterm topics
- Arrays: declaring, initializing, passing to functions
- Strings: declaring, initializing, `=`, `+`, `+=`, and `[]` operators
- Objects: classes, headers and source files, public/private members, instance/static members

Sample questions:

1. [10] Consider the following code:

```
int a[5];  
  
for (int i = 0; i < 5; ++i)  
    a[i] = i;  
  
int sum = 0;  
  
for (int i = 0; i < 5; ++i)  
    sum += a[i];  
  
cout << sum << endl;
```

What will the code print when executed?

2. [10] Consider the following code:

```
void f(const double &n) {  
    n = 5;  
}
```

The code will not compile. Why?