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## 1 01.19.20 (C++ Ch. 3)

A look at class creation

```
#include <iostream>
using namespace std;

//defining the class
class GradeBook {
    //holds all public vars, functions
    public:
    //public function
    void displayMessage() {
        cout << "Welcome to your Gradebook" << endl;
    } //displayMessage
} //GradeBook

//main method
int main () {
    //creates a GradeBook object
    GradeBook myGradeBook;
    //calls above created function on object
    myGradeBook.displayMessage();
}
```

Class functions and vars are, by default, private. The public keyword must be used to denote any public parts of a class.

Move implementations to a header file for use in main methods while separating out each file.

When using header files, use quotation marks around them to indicate that they're a file on your machine. Use angle brackets around things to include from the C std lib.

## 2 01.19.20 (C++ Ch. 2)

A look at some basic C++ code

```
#include <iostream> //enables program to output data

//main function begins program execution
int main () {
    //cout currently a function as a part of the std namespace
    std::cout << "Welcome to C++!\n";
    //above << is an insertion operator, overloaded from the bitwise left-shift

    return 0;
}
```

A look at some higher level C++ code

```
#include <iostream>

int main () {

    int num1{0}; //list initialization
    int num2 = 0; //regular initialization
    //No difference between list & regular initialization with primitive types.
    //List initialization should be used for UDTs.*/

    int sum{0}

    std::cin >> num1;
    std::cin >> num2;

    sum = num1 + num2;

    std::cout << sum << std::endl;
    //endl is helpful because it flushes the buffer, which the newline character does not
    return 0;
}
```

A look at a common mistake

```
#include <iostream>
```

```
int main () {  
    int x {5};  
  
    if(x > 10); {  
        std::cout << x "> 10" << std::endl;  
    }  
    //still prints output because of semicolon after if statement  
  
    return 0;  
}
```