

C++ Mini-Course

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C Rulez!



C++ Rulez!

C++ Mini-Course

Part 1: Mechanics

C++ is a superset of C

- New Features include
 - Classes (Object Oriented)
 - Templates (Standard Template Library)
 - Operator Overloading
 - Slightly cleaner memory operations

Some C++ code

Segment.h

```
#ifndef __SEGMENT_HEADER__
#define __SEGMENT_HEADER__

class Point;
class Segment
{
public:
    Segment();
    virtual ~Segment();
private:
    Point *m_p0, *m_p1;
};

#endif // SEGMENT HEADER
```

Segment.cpp

```
#include "Segment.h"
#include "Point.h"

Segment::Segment()
{
    m_p0 = new Point(0, 0);
    m_p1 = new Point(1, 1);
}

Segment::~~Segment()
{
    delete m_p0;
    delete m_p1;
}
```

#include

`#include "Segment.h"`

Insert header file at this point.

`#include <iostream>`

Use library header.

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