

ENCM Fall 2005: Handout for L02 (Dr. Norman's lecture) Wed., Oct. 19

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file Counter.h ...

```
#ifndef COUNTER_H
#define COUNTER_H

class Counter {
public:
    Counter();
    Counter(int init_count);
    void increment();
    int count() const;
private:
    int countM;
};

#endif
```

file Counter.cpp ...

```
#include "Counter.h"

Counter::Counter()
    : countM(0)
{
}

Counter::Counter(int init_count)
    : countM(init_count)
{
}

void Counter::increment()
{
    countM++;
}

int Counter::count() const
{
    return countM;
}
```

file useCounter.cpp ...

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

#include "Counter.h"

int main()
{
    Counter foo;
    Counter bar(16);

    // point 1

    foo.increment();
    foo.increment();
    bar.increment();

    // point 2

    cout << "point 2 foo count: " << foo.count() << endl;
    cout << "point 2 bar count: " << bar.count() << endl;
    return 0;
}
```