

<<<< USERNAME:tt FILENAME: maslist.cpp >>>>

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//-----  
//File maslist.cpp implements a list of integers  
//-----  
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//-----  
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//-----  
//C++ Standard include files  
//-----  
#include <iostream>  
#include <fstream>  
#include <iomanip>  
#include <string>  
#include <cstring>  
#include <cstdlib>  
using namespace std;  
//-----  
//Application include files  
//-----  
#include "maslist.h"  
//-----  
//-----  
struct ListException {  
    ListException(const char* m)  
    {    cout << endl;  
        cout << "I am the List and I am " << m << ".";  
    }  
};  
//-----  
//-----  
List::List(int sz):size(sz),count(0),cursor(0){L=new int[size];}  
List::~List(){if (L) delete[] L;}  
bool List::IsFull(void){return count>=size;}  
bool List::IsEmpty(void){return count<=0;}  
void List::Insert(int v)  
{    if (IsFull()) throw ListException("full");  
    L[count++]=v;  
}  
void List::First(void){cursor=0;}  
void List::Next(void){if (cursor<count) cursor++;}  
bool List::IsEol(void){return cursor>=count;}  
int List::Element(void){return L[cursor];}
```