// The user program that tests the class clockType
// See the header file clock.h for documentation.

#include <iostream>
using namespace std;

#include "clock.h"

int main()
{
    clockType myClock;
    clockType yourClock;

    int hours;
    int minutes;
    int seconds;

    // set the time of myClock
    myClock.setTime(5, 4, 30);  // Line 1

    cout << "Line 2: myClock: ";  // Line 2
    myClock.printTime();  // print the time of myClock // Line 3
    cout << endl;  // Line 4

    cout << "Line 5: yourClock: ";  // Line 5
    yourClock.printTime();  // print the time of yourClock Line 6
    cout << endl;  // Line 7

    // set the time of yourClock
    yourClock.setTime(5, 45, 16);  // Line 8

    cout << "Line 9: After setting, yourClock: ";  // Line 9
    yourClock.printTime();  // print the time of yourClock Line 10
    cout << endl;  // Line 11

    // compare myClock and yourClock using member function
    if (myClock.equalTime(yourClock))  // Line 12
        cout << "Line 13: Both times are equal."  // Line 13
            << endl;
    else
        cout << "Line 15: The two times are not equal."  // Line 15
            << endl;

    cout << "Line 16: Enter the hours, minutes, and "
        << "seconds: ";  // Line 16
    cin >> hours >> minutes >> seconds;  // Line 17
    cout << endl;  // Line 18

    // set the time of myClock using the value of the
    // variables hours, minutes, and seconds
    myClock.setTime(hours, minutes, seconds);  // Line 19

    cout << "Line 20: New myClock: ";  // Line 20
    myClock.printTime();  // print the time of myClock // Line 21
    cout << endl;  // Line 22

    // increment the time of myClock by one second
    myClock.incrementSeconds();  // Line 23

    cout << "Line 24: After incrementing myClock by "
        << "one second, myClock: ";  // Line 24
    myClock.printTime();  // print the time of myClock // Line 25
    cout << endl;  // Line 26

    // retrieve the hours, minutes, and seconds of the
    // object myClock
    myClock.getTime(hours, minutes, seconds);  // Line 27
cout << "Line 28: hours = " << hours << ", minutes = " << minutes << ", seconds = " << seconds << endl; //Line 28

//compare myClock and yourClock using the non-member function
if (isEqual(myClock, yourClock))
    cout << "Line 29: Both times are equal." << endl;
else
    cout << "Line 30: The two times are not equal." << endl;

return 0;
}//end main