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/*
 * Person.h
 *
 * Created on: Nov 25, 2013
 * Author: Nathaniel Gallinger
 */

#ifndef PERSON_H_
#define PERSON_H_

#include <string>
using std::string;

#include <iostream>
using std::istream;
using std::ostream;

namespace NathanielGallinger
{
    class Person
    {
    public:
        // friend function stream operator overloads
        friend istream &operator>>(istream &in, Person &person);
        friend ostream &operator<<(ostream &out, const Person &person);
    private:
        // Private data members
        string firstName;
        string lastName;
        int ageYears;
        double heightInches;
        double weightPounds;
    };
}

#endif /* PERSON_H_ */

/*
 * Person.cpp
 *
 * Created on: Nov 25, 2013
 * Author: Nathaniel Gallinger
 */

#include "Person.h"

// Overloaded stream extraction operator
istream &NathanielGallinger::operator>>(istream &in, Person &person)
{
    in >> person.firstName >>

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        person.lastName >>
        person.ageYears >>
        person.heightInches >>
        person.weightPounds;
    return in;
}

// Overloaded stream insertion operator
ostream &NathanielGallinger::operator<<(ostream &out, const Person
&person)
{
    out << person.firstName << " " <<
        person.lastName << " " <<
        person.ageYears << " " <<
        person.heightInches << " " <<
        person.weightPounds << "\n";
    return out;
}

/*
 * hw8.cpp
 *
 * Created on: Nov 25, 2013
 * Author: Nathaniel Gallinger
 */

#include "Person.h"
#include <fstream>
#include <iostream>
#include <sstream>
#include <string>
using namespace std;

int main()
{
    ostringstream out;

    // Open file
    ifstream in ("hw8-input.txt", ios::in);

    // Exit if open fails
    if (!in) {
        cerr << "Error opening file\n";
        exit(1);
    }

    // Read from file
    NathanielGallinger::Person::Person newPerson;
    while (in >> newPerson) {

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    out << newPerson;
}

// Output stringstream
cout << out.str();
}
```

Output:

```
John Smith 37 72.25 189.37
Sally Jones 26 60.18 107.88
Aaron Anderson 12 55.5 89.3
Janet Anderson 10 49 60.98
Brian Doe 28 76.11 238
Brett Daniels 48 69.01 189.74
```