C++ experiment 2

C++实验报告二

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Code:

main.cpp:

```
//main.cpp
#include <iostream>
#include "Person.h"
#include "Date.h"
/* run this program using the console pauser or add your own getch, system("pause") or i
int main(int argc, char** argv)
    person p1;
    pl.printPerson();
    p1.getBirthday().printDate();
    std::cout<<std::endl;</pre>
    person p2 ("test2", 111, Date(2018, 2, 2));
    //person p2("t",111,(2018,2,2)); It is wrong! Do not use this!
    p2.printPerson();
    p2.getBirthday().printDate();
    std::cout<<std::endl;</pre>
    p1.setName("test1");
    p1.setID(222);
    p1.setBirthday(2018,1,1);
    //person::setBirthday(int y,int m,int d);
    pl.printPerson();
    p1.getBirthday().printDate();
    std::cout<<std::endl;</pre>
```

```
system("pause");
return 0;
}
```

Person.h:

```
//Person.h
#ifndef PERSON H
#define PERSON_H
#include <iostream>
#include <string>
#include "Date.h"
class person
   private:
        std::string name;
        int id;
        Date birthday;
   public:
        person(std::string n="",int i=0,Date d=Date(2000,0,0));
        ~person();
        void setName(std::string n);
        void setID(int i);
        void setBirthday(int y, int m, int d);
       void printPerson();
       std::string getName();
        int getID();
       Date getBirthday();
        person getPerson();
} ;
#endif
```

Person.cpp

```
//Person.cpp
#include "Person.h"

person::person(std::string n,int i,Date d)
{
    name=n;
    id=i;
    birthday=d;
```

```
void person::setBirthday(int y,int m,int d)
   birthday.setDate(y,m,d);
}
person::~person()
}
void person::setName(std::string n)
  name=n;
void person::setID(int i)
{
   id=i;
}
void person::printPerson()
   std::cout<<"Name: "<<name<<",ID: "<<id<<std::endl;</pre>
   std::cout<<"Birthday: ";</pre>
   birthday.printDate();
}
std::string person::getName()
   return name;
int person::getID()
   return id;
Date person::getBirthday()
   return birthday;
person person::getPerson()
   return *this;
```

```
//#pragma once
#ifndef DATE H
#define DATE_H
class Date
public:
   Date(int y = 2000, int m = 1, int d = 1);
    void setDate(int y, int m, int d);
   void printDate();
   int getYear();
   Date getDate();
private:
   int year;
   int month;
   int day;
};
#endif
```

Date.cpp

```
//#include "stdafx.h"
#include "Date.h"
#include <iostream>
using namespace std;

Date::Date(int y, int m, int d)
{
    setDate(y, m, d);
}

void Date::setDate(int y, int m, int d)
{
    year = y;
    month = m;
    day = d;
}

void Date::printDate()
{
    cout << year << "/" << month << "/" << day << endl;
}
int Date::getYear()
{
    return year;</pre>
```

```
Date Date::getDate()
{
    return *this;
}
```

Demo:

```
Mame: ,ID: 0
Birthday: 2000/0/0
2000/0/0

Name: test2,ID: 111
Birthday: 2018/2/2
2018/2/2

Name: test1,ID: 222
Birthday: 2018/1/1
2018/1/1
请按任意键继续. . .
```