Sửa một số bài tập

Bài 1. Lớp sinh sinh viên

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

class Sinhvien
  {
   private:
          char masv[10],ht[30];
      float dtb;
   public:
       void nhap();
       void xuat();
             float get_dtb();  //Lay ra dtb
  };
void Sinhvien::nhap()
  {
   cout<<"\n Nhap ma sv :";
   cin.get(masv,10);
   cin.ignore();
       cout<<"\n Nhap ho ten sv :";
       cin.get(ht,30);
   cout<<"\n Diem trung binh :";
       cin>>dtb;
       cin.ignore();
  }
```

```cpp
void Sinhvien::xuat()
  {
        cout<<setw(10)<<masv
      <<setw(30)<<ht
      <<setw(5)<<dtb<<endl;
  }
float Sinhvien::get_dtb()
 {
   return dtb;
 }


class Quanly
{
      private:
              Sinhvien sv[50];
              int n;
      public:
        void nhap_sv();
        void in_sv();
};


void Quanly::nhap_sv()
{
 cout<<"\n Nhap so sinh vien :";
 cin>>n;
 cin.ignore();
 for (int i = 0;i<n;i++)
   sv[i].nhap();
```

```cpp
}

void Quanly::in_sv()
{
        //Tim Max cua dtb
    float max = sv[0].get_dtb();


    for (int i=1; i<n ; i++)
      if (max < sv[i].get_dtb())
            max = sv[i].get_dtb();


    //In sv co dtb dat max
    cout<<"\nDanh sach sinh vien co dtb cao nhat: "<<endl;
    cout<<setw(10)<<" Ma sv"
        <<setw(30)<<" Ho va ten"
        <<setw(20)<<" Diem trung binh"<<endl;
    for (int i=0; i<n ; i++)
        if (sv[i].get_dtb() == max)
          sv[i].xuat();


}

int main()
{
        Quanly ob;
        ob.nhap_sv();
        ob.in_sv();
    return 0;
```

}

Bài 3.9 Lớp Date

#include <iostream>

using namespace std;

class Date

 {

   private:

        int D,M,Y; //ngày, tháng, nam

   public:

                int nhuan(); //kiem tra nam nhuan

                int ngaythang(); //tra ve so ngay trong thang

                void nhap(); //co kiem tra du lieu

                void xuat();

                Date cong_1(); //cong 1 ngay vao dtuong

                Date cong_k(int k);

                int ngaynam(); //tra ve so ngay cua nam

                    int khoangcach(Date d2);

};

int Date::nhuan() //tra ve 1 neu Y nhuan, 0 neu khong nhuan

{

 return ((Y % 4 == 0 and Y % 100 != 0) || (Y % 400 == 0));

}

int Date::ngaythang()

{

 if (M==4 or M==6 or M==9 or M==11)

```cpp
        return 30;
    else if (M==2)
        return 28 + nhuan();
    else
        return 31;
}


void Date::nhap()
{
    int S;
    int k;
    do
    {
        cout<<"\nNhap vao ngay thang nam :  "<<endl;
        cin>>D>>M>>Y;


        S = ngaythang();
        if ((D > 0) and (D <= S) and (M >= 1) and (M <= 12 )  and Y > 0)
            k = 1;  //hop le
        else
            {  cout<<"\nSai ngay! Hay nhap lai. "<<endl;
                k = 0; //khong hop le
            }
    } while(k == 0);
}


void Date::xuat()
```

```cpp
{
  cout<<D<<'/'<<M<<'/'<<Y<<endl;
}


Date  Date::cong_1()
{
 int S;
 S =ngaythang();
 if (++D>S)
  {
    D = 1;
    if (++M>12)
         { M = 1;
               Y = Y + 1;
         }
       }
 return *this;  //doi tuong ma this tro toi
}


Date  Date::cong_k(int k)
 {
    Date t;
    t.D = D;
    t.M= M;
    t.Y = Y;
    for (int i=1;i<=k;i++)
      t.cong_1();
    return t;
```

```cpp
    }

int Date::ngaynam()
    {
     return nhuan()?366:365;
    }
//Ham tinh khoang cach giua 2 dt ngay
int Date::khoangcach(Date d2)
    {
    Date d;
    int s1=0,s2=0,T=0;
    for (d.M=1,d.Y=Y; d.M<M; d.M++)
            s1+=d.ngaythang();
    s1 += D;
    //cout<<"\n so ngay cua dt 1 tinh tu moc thang 1: "<<s1;  //gia su d1 goi phuong thuc
    for (s2=0;d2.M<=12;d2.M++)
            s2+=d2.ngaythang();
    s2 -= d2.D;
    //cout<<"\n so ngay cua dt 2 tinh den moc cuoi thang 12 la: "<<s2;

    if (d2.Y==Y) // X-----------d2---d1--------X, vd d1 = 20/10/2021, d2 = 15/7/2021
        T= s1 + s2 - ngaynam();
    else   //X-------d2----X--------------X------d1-------X
        {   //1          12        1          12
             for (d2.Y++;d2.Y<Y;++d2.Y)
            T+=d2.ngaynam();
          T+=s1+s2;
        }
```

```cpp
        return T;
    }


int main()
{
  Date d; int k;
  cout<<"\n Nhap doi tuong ob: ";
  d.nhap();
  cout<<"\n Du lieu cua doi tuong: ";
  d.xuat();
  d.cong_1();
  cout<<"\n Sau khi tang 1 ngay: ";
  d.xuat();


  Date d1, d2;
  cout<<"\n Nhap ngay thu nhat"; d1.nhap();
  cout<<"\n Nhap ngay thu hai"; d2.nhap();
  cout<<"\n Khoang cach giua d1 va d2 la: "<<d1.khoangcach(d2);


  return 0;
}
```

Bài 3.10. Lớp Phanso

```cpp
#include<iostream>
#include<math.h>
using namespace std;


class Phanso
 {
```

```cpp
    int t,m;  //tu so va mau so
  public:
    friend int ucln(int a,int b);
        void nhap();
        void xuat();
        Phanso cong(Phanso p2);
        Phanso nhan(Phanso p2);
        Phanso chia(Phanso p2);
 };


int ucln(int a,int b)  //thuat toan Euclid
        {
          a = fabs(a);
          b = fabs(b);
          while (a!=b)
           {
            if(a>b)
                   a=a-b;
            else
                   b=b-a;
           }
          return a;
        }


void Phanso::nhap()
        {
          cout<<"\nNhap tu so:";cin>>t;
          do
```

```cpp
        {
            cout<<"\nNhap mau so:";cin>>m;
        }while(m==0);
    }
void Phanso::xuat()
    {
     cout<<t<<"/"<<m<<endl;
    }


Phanso Phanso::cong(Phanso p2)
    {
     Phanso p;
     p.t = t*p2.m+m*p2.t;     //t/m + p2.t/p2.m
     p.m = m*p2.m;
     if (p.t !=0)
      {
            int k = p.t/ucln(p.t,p.m);
            p.m = p.m/ucln(p.t,p.m);
         p.t = k;
       }
     return p;
    }


Phanso Phanso::nhan(Phanso p2)
    { Phanso tam;
     tam.t = t*p2.t;
     tam.m = m*p2.m;
     if (tam.t!=0)
```

```cpp
        {
          int k = tam.t/ucln(tam.t,tam.m);

          tam.m = tam.m/ucln(tam.t,tam.m);

          tam.t = k;

        }
      return tam;

      }
Phanso Phanso::chia(Phanso p2)
      {Phanso tam;
        tam.t = t*p2.m;

        tam.m = m*p2.t;

        if (tam.t)

          {

            int k = tam.t/ucln(tam.t,tam.m);

            tam.m = tam.m/ucln(tam.t,tam.m);

            tam.t = k;

          }
        return tam;

        }


int main()
  {


    Phanso p1,p2,p3;
    cout<<"\nNhap phan so thu nhat:";p1.nhap();

    cout<<"\nNhap phan so thu hai:",p2.nhap();

    cout<<"\nPhan so thu nhat:";p1.xuat();

    cout<<"\nPhan so thu hai:";p2.xuat();
```

```cpp
        p3 = p1.cong(p2);

        cout<<"\nTong hai phan so p1 va p2 :";p3.xuat();

        p3 = p1.nhan(p2);

        cout<<"\nTich hai phan so p1 va p2 :";p3.xuat();

        p3= p1.chia(p2);

        cout<<"\nThuong hai phan so p1 va p2 :";p3.xuat();

        return 0;

    }
```

Bài 3. Lớp Time

```cpp
//Bai tap 3.8 trong giao trinh

#include <iostream>

using namespace std;


class Time

{

 private:

        int h,m,s;

 public:

        //cac ham tao

        Time();

        Time(int a,int b,int c);

        //ham nhap, xuat

        void nhap();

        void xuat();


        void chuanhoa(); //chuan hoa gio, phut va giay

        void giatang(int a, int b, int c);//tang gio hien tai

        void dieuchinh(int a, int b,int c); //dieu chinh lai gio hien tai theo gio moi
```

```cpp
};

Time::Time()
{       h=m=s=0; }

Time::Time(int a,int b,int c)
{       h=a; m=b; s = c;}

void Time::nhap()
{
        while(1)
   {
      cout << "Nhap vao gio, phut va giay: ";
      cin>>h>>m>>s;
      if (h >= 0 and m >=0 and s>=0)
         break;
      cout << "Nhap sai! Hay nhap lai." << endl;
   }
}

void Time::xuat()
{       cout<<h<<":"<<m<<":"<<s<<"\n"; }

/* cach 1
void Time::chuanhoa()
{
        if(s>=60)
```

```
        {       m = m+s/60;

                s = s%60; //chuan hoa giay

        }


        if(m>=60)

        {

                h = h+m/60;

                m = m%60;  //chuan hoa phut

        }


        if(h>=24)

          h = h%24;  //chuan hoa gio

}
*/


//cach 2
void Time::chuanhoa()
{
   int tong = h*3600 + m*60 + s;  //tinh ra giay

   h = (tong/3600)%24;

   m = (tong/60)%60;

   s = tong%60;

}


void Time::giatang(int a, int b, int c)
{
        h=h+a;

        m=m+b;
```

```cpp
            s=s+c;
        chuanhoa();  //goi phuong thuc chuanhoa
    }


void Time::dieuchinh(int a, int b, int c)
    {
            h = a;
            m = b;
            s = c;
            chuanhoa();
    }
int main()
{
        Time ob1(25,65,75),ob2;
        cout<<"\n Doi tuong ob1: ";
        ob1.xuat();
        cout<<"\n Sau khi chuan hoa ob1: ";
        ob1.chuanhoa();//2:6:15
        ob1.xuat();

        cout<<"\n Gia tang ob1: ";
        ob1.giatang(20, 50, 70);
        cout<<"\n ob1 sau khi gia tang: ";
        ob1.xuat(); //22:57:25

        cout<<"\n Dieu chinh ob1: ";
        ob1.dieuchinh(15, 70, 90);
        cout<<"\n ob1 sau khi dieu chinh: ";
```

```
        ob1.xuat(); //16:11:30


        cout<<"\n Nhap doi tuong ob2: \n ";

        ob2.nhap();

        cout<<"\n Doi tuong ob2: \n";

        ob2.xuat();

        cout<<"\n Sau khi chuan hoa ob2: ";

        ob2.chuanhoa();

        ob2.xuat();


        return 0;
}
```

Bài tập 3.13. Lớp Đa thức

```
#include <iostream>

#include <stdlib.h>

using namespace std;

class dathuc

{
        int heso[100];  //luu cac he so cua da thuc

        int bac;                //bac cua da thuc

public:
        void nhap();

        void xuat();

        dathuc cong(dathuc p);

};


void dathuc:: nhap()

{
```

```cpp
//vd : 2x^0 + 3x + 5x^2  + 4x^3

cout<<"Nhap vao bac cua da thuc: ";

cin>>bac;

cout<<"Nhap vao cac he so cua da thuc: ";


for (int i=0; i<=bac; i++)

  {

    cout<<"He so bac "<<i<<" la: ";

        cin>>heso[i];

  }

}


void dathuc::xuat() //in ra chua dat yeu cau ! hay sua lai

 {

   for (int i=0; i<=bac; i++)

     if (heso[i] !=0)

      cout<<heso[i]<<"x^"<<i<<"+";

   cout<<"\n\n";

 }


dathuc dathuc::cong(dathuc p)

{      dathuc c;  //c la da thuc ket qua

   int i;

        //vd: da thuc hien tai:                  2 + 3x + 5x^2  + 4x^3

        //vd: da thuc 2 (da thuc p): 3 + 2x + 6x^2  + 9x^3 + 3x^4  + 2x^5

        //vd: da thuc tong                  5 + 5x + 11x^2  + 13x^3 + 3x^4  + 2x^5


        if (bac < p.bac)    //bac =3, p.bac = 5
```

```
        {       c.bac = p.bac;

                for (i=0; i<=bac;i++)
                        c.heso[i] = heso[i] + p.heso[i];

                for (i=bac+1; i<=p.bac;i++)
                        c.heso[i] = p.heso[i];
        }
        //vd: da thuc hien tai:      5 + 3x + 6x^2  + 9x^3 + 3x^4  + 2x^5
        //vd: da thuc p:             4 + 2x + 5x^2  + 4x^3
        //vd: da thuc tong           9 + 5x + 11x^2  + 13x^3 + 3x^4  + 2x^5

        else  //bac = 5, p.bac =3
        {       c.bac = bac;

                for (i=0; i<=p.bac;i++)
                   c.heso[i] = heso[i] + p.heso[i];

                for (i=p.bac+1; i<=bac;i++)
                        c.heso[i]=heso[i];
        }
        return c;
}


int main()
{
 dathuc ob1,ob2,ob3;
 ob1.nhap();
```

```cpp
ob2.nhap();
cout<<"\n Da thuc thu nhat : "; ob1.xuat();cout<<endl;
cout<<"\n Da thuc thu hai : ";ob2.xuat();cout<<endl;


ob3=ob1.cong(ob2);
cout<<"\n Da thuc tong : ";
ob3.xuat();cout<<endl;


return 0;
}
```

Bài tập 3.11 Lớp Chuỗi

```cpp
#include <string.h>
#include <iostream>
#include <stdio.h>
using namespace std;


class Chuoi
 {
   char str[100];   //cach khai bao chuoi cua ngon ngu C
   int n;                //kich thuoc chuoi
   public:
       Chuoi();
       Chuoi(char st[]);
     void nhap();
            void hienthi();
            char phantu(int i);  //tra ve ky tu thu i cua chuoi
            Chuoi noi(Chuoi ob2);  //ket noi 2 chuoi
 };
```

```cpp
Chuoi::Chuoi()   //ham tao mac dinh
 {}


Chuoi::Chuoi(char st[]) //ham tao khoi gan chuoi
 {
   strcpy(str,st);  //loi khi go str = st
 }


void Chuoi::nhap()
  {
   cout<<"\n Nhap chuoi:";
   gets(str);
   n = strlen(str);
  }
void Chuoi::hienthi()
  {
        cout<<str<<endl;
  }
char Chuoi::phantu(int i)
  {
   if (i<0 || i >= n)
     return -1;
        return str[i];
  }
Chuoi Chuoi::noi(Chuoi ob2)
  {
```

```cpp
            Chuoi ob;  //loi khi go ob = str + ob2.str;

            strcpy(ob.str,str);

            strcat(ob.str,ob2.str); //noi xong 2 chuoi

            ob.n = strlen(ob.str);

            return ob;

            }


int main()

 {

   Chuoi ob1("Khoa"),ob2("CNTT"),ob3;

   ob3 = ob1.noi(ob2);


   cout<<"\n ob1 = ";ob1.hienthi();

   cout<<"\n ob2 = ";ob2.hienthi();

   cout<<"\n ob3 = ";ob3.hienthi();

   cout<<"\nPhan tu thu 5 cua ob3 la: "<<ob3.phantu(4);


   ob1.nhap();

   ob2.nhap();

       ob3= ob1.noi(ob2);

   cout<<"\n ob1 = ";ob1.hienthi();

   cout<<"\n ob2 = ";ob2.hienthi();

   cout<<"\n ob3 = ";ob3.hienthi();

   cout<<"\nPhan tu thu 5 cua ob3 la: "<<ob3.phantu(4);

       return 0;

 }
```

Bài tập 3.15 Lớp Mảng

```cpp
#include<iostream>
#include <stdlib.h>
using namespace std;
class Mang
 {
    int *a;  //dung mang cap phat dong
    int n;   //kich thuoc mang
  public:
    void nhap();
        void xuat();


        Mang cong(Mang m2);


 };
void Mang::nhap()
  {
        cout<<"\n Nhap n (n>0) ";cin>>n;
        a = new int [n];
        if (a == NULL)
    {
      cout<<"\n Loi cap phat bo nho!";
          return;
    }
        for(int i = 0;i < n;i++)
          { cout<<"\n a["<<i<<"]=";
           cin>>a[i];
              }
        }
```

```cpp
void Mang::xuat()
    {
      for(int i=0;i<n;i++)
        cout<<a[i]<<" ";
    }



Mang Mang::cong(Mang m2)
  {
    Mang m;
    //hai doi tuong cong duoc phai cung kich thuoc
    if (n != m2.n)  //kiem tra kich thuoc
      { cout<<"\n 2 mang khong cung kich thuoc";
        exit(1);
      }
    m.a = new int [n];
        if (m.a == NULL)
    {
     cout<<"\n Loi cap phat bo nho!";
        exit(1);
    }
    for(int i = 0;i<n;i++)
        m.a[i] = a[i] + m2.a[i];
        m.n = n;   //gan kich thuoc cua mang m la n
        return m;
  }
```

```cpp
int main()
 {
  Mang m1,m2,m3;
  cout<<"\n\nNhap mang thu nhat:";m1.nhap();
  cout<<"\n Mang thu nhat: ";      m1.xuat();


      cout<<"\n\nNhap mang thu hai:";m2.nhap();
  cout<<"\n Mang thu hai: ";       m2.xuat();


      m3 = m1.cong(m2);
      cout<<"\n\nTong hai mang :";
      m3.xuat();


  return 0;
 }
```

Bài tập 3.16 Lớp Điểm

```cpp
#include <iostream>
#include <math.h>
#define n 5 //KICH THUOC n LA 5
using namespace std;
class Khonggian  //moi doi tuong se co dung n thanh phan
{
      private: int  a[n]; //cac thanh phan cua doi tuong diem
      public:
            void nhap();
            void xuat();
            float khoangcach(Khonggian d2);
```

```cpp
            Khonggian cong(Khonggian d2);
};
        void Khonggian::nhap()
            {
              for(int i=0;i<n;++i)
                { cout<<"a["<<i<<"]=";
                  cin>>a[i];
                    }
            }
        void Khonggian::xuat()
            {
             cout<<"(";
             for(int i=0;i<n-1;++i)
                cout<<a[i]<<",";
             cout<<a[n-1]<<")"<<endl;
            }



        float Khonggian::khoangcach(Khonggian d2)
    { float S = 0.0;
      for(int i =0; i<n;i++)
            S = S + pow(d2.a[i]-a[i],2);
      return sqrt(S);
    }


  Khonggian Khonggian::cong(Khonggian d2)
    {
      Khonggian d;
```

```cpp
        for(int i =0; i<n;i++)
            d.a[i] = a[i] + d2.a[i];
        return d;
    }


int main()
{
        Khonggian  d1,d2,d3;

        cout<<"\n Nhap du lieu cho doi tuog thu 1: ";
        d1.nhap();

        cout<<"\n Nhap du lieu cho doi tuog thu 2: ";
        d2.nhap();
        cout<<"\n Doi tuong d1: "; d1.xuat();
        cout<<"\n Doi tuong d2: "; d2.xuat();

    cout<<"\n Khoang cach giua d1 va d2: "
            <<d1.khoangcach(d2);

        d3 = d1.cong(d2);
    cout<<"\n d1 + d2 = ";
    d3.xuat();

        return 0;
}
```
Bài tập về DSLK
```cpp
#include <iostream>
```

```cpp
#include <stdlib.h>
#include <string.h>
#include <stdio.h>
using namespace std;
//mo ta cau truc cua nut trong dslk
class Hocphan
{
    private:
        char *mahp,*tenhp;
        int sotc;
    public:
        Hocphan *next;
        //ham tao de khoi tao gia tri cac thuoc tinh
        Hocphan(char *mhp,char *thp, int tc)
        {
            mahp = new char[strlen(mhp)+1];
            tenhp = new char[strlen(thp)+1];
            strcpy(mahp,mhp);
            strcpy(tenhp,thp);
            sotc = tc;
        }
        //cac ham lay gia tri thuoc tinh
        char *GetMaHP()
        {
            return mahp;
        }
        char *GetTenHP()
        {
```

```cpp
                return tenhp;
        }
        int GetSoTC()
        {
                return sotc;
        }
        //ham gan gia tri cho cac thuoc tinh, dung cho ham sapxep
        void Set(char *mhp,char *thp, int tc)
        {
                mahp = new char[strlen(mhp)+1];
                tenhp = new char[strlen(thp)+1];
                strcpy(mahp,mhp);
                strcpy(tenhp,thp);
                sotc = tc;
        }
};
//lop List de mo ta cac doi tuong la dslk
class List
{
        private:
                Hocphan *first;
        public:
                List()  //khoi tao danh sach rong
                {
                        first = NULL;
                }
                void Nhap();
                void HienThi();
```

```cpp
            void SapXep();

            Hocphan *TimKiem(char *hp);

            void Xoa(char *hp);

};
void List::Nhap()    //bo sung dau danh sach
{
       char mhp[10],thp[30];
       int tc;
       do
       {
         cout<<"\n Nhap ma hoc phan: ";
         fflush(stdin); gets(mhp);
         if(strcmpi(mhp,"") != 0)
          {
                  cout<<"\n  Nhap ten hoc phan: ";
         fflush(stdin); gets(thp);
                  cout<<"\n  Nhap so tin chi: "; cin>>tc;
                  //cap phat bo nho va gan du lieu cho p
                  Hocphan *p = new Hocphan(mhp,thp,tc);
                  //chen dau dslk
                  p->next = first;
                  first = p;
           }
        }while(strcmpi(mhp,"") != 0) ;
}


void List::HienThi()
{
```

```cpp
        Hocphan * p = first;

        while(p != NULL)

        {

         cout<<"\n\n----------------------------";

         cout<<"\n   Ma hoc phan: "<<p->GetMaHP();

         cout<<"\n   Ten hoc phan: "<<p->GetTenHP();

         cout<<"\n   So tin chi: "<<p->GetSoTC();

         cout<<"\n\n----------------------------";

         p = p->next;

        }

}
void List::SapXep()

 {

        Hocphan *p,*q;

        char temmahp[30],temthp[30];

        int temtc;

        if(first != NULL)

         for(p = first; p->next != NULL; p= p->next)

          for(q = p->next; q != NULL; q = q->next)

                 if(strcmp (p->GetMaHP(),q->GetMaHP()) > 0)

                  {

                         strcpy(temmahp,p->GetMaHP());

                         strcpy(temthp,p->GetTenHP());

                         temtc = p->GetSoTC();

                         p->Set(q->GetMaHP(),q->GetTenHP(),

             q->GetSoTC());

                         q->Set(temmahp,temthp,temtc);

                  }
```

```cpp
    }
Hocphan * List::TimKiem(char *mhp)
{
        Hocphan *p = first;
        while (p!=NULL && strcmpi(p->GetMaHP(),mhp)!=0)
         p = p->next;
        return p;
}
void List::Xoa(char *mhp)
{
        while (first!=NULL &&
        strcmpi(first ->GetMaHP(),mhp) == 0) //xoa nut dau
        {
                Hocphan *tam = first;
                first = first ->next;
                delete tam;
        }
        if(first!=NULL)
         {
                Hocphan *p = first;
                while(p->next!=NULL)
                 if(strcmpi(p->next->GetMaHP(),mhp) == 0)
                 {
                  Hocphan *tam = p->next;
                  p->next = p->next->next;
                  delete tam;
                 }
                else
```

```
                p = p->next;

        }

}


int main()

{

        List ds;  //khai bao 1 ds doi tuong cua lop List

        ds.Nhap();

        cout<<"\n Hien thi danh sach hoc phan: ";

        ds.HienThi();


        ds.SapXep();

        cout<<"\n Hien thi sau khi sap xep: ";

        ds.HienThi();


        char mhp[10],thp[30];

        cout<<"\n Nhap vao ma hp muon xoa: ";

    fflush(stdin); gets(mhp);

        ds.Xoa(mhp);


        cout<<"\n Hien thi sau khi xoa: ";

        ds.HienThi();

        cout<<"\n Nhap vao ma hp muon tim kiem ";

    fflush(stdin); gets(mhp);


        Hocphan *p = ds.TimKiem(mhp);

        char c;

        if(p!= NULL)
```

```cpp
    {
        cout<<"\n Da tim thay hp cua ban! ";
        cout<<"\n Ma hp :"<<p->GetMaHP();
        cout<<"\n Ten hp:"<<p->GetTenHP();
        cout<<"\n So tc:"<<p->GetSoTC();
    }
    else
        cout<<"\n Khong tim thay ma hoc phan nay";
    return 0;
}
```