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#include <iostream>
#include <string>

class PersoanaAC
{
protected:
    std::string m_sCnp;
    std::string m_sNume;
    std::string m_sAdresa;
public:
    PersoanaAC();
    PersoanaAC(std::string cnp, std::string nume, std::string adresa);
    PersoanaAC(const PersoanaAC&);
    ~PersoanaAC();
    void afisareProfil();
    void schimbareAdresa(std::string adresaNoua);
};

class StudentAC : public PersoanaAC
{
    int m_ianStudiu;
    int m_inotaP2;

public:
    StudentAC();
    StudentAC( std::string cnp, std::string nume, std::string adresa, int anStudiu, ↗
        int notaP2);
    StudentAC(const StudentAC &);
    ~StudentAC();
    void afisareProfil();
    void inscriereAnStudiu(int anStudiuNou);
};

PersoanaAC::PersoanaAC()
{
    std::cout << "constr. fara arg. PersoanaAC" << std::endl;

    m_sCnp = std::string(13, '0');
    m_sNume = "";
    m_sAdresa = "";
}

PersoanaAC::PersoanaAC(std::string cnp, std::string nume, std::string adresa)
{
    std::cout << "constr. cu arg. PersoanaAC" << std::endl;

    m_sCnp = cnp;
    m_sNume = nume;
    m_sAdresa = adresa;
}
```

```
PersoanaAC::PersoanaAC(const PersoanaAC &p)
{
    std::cout << "ctor copiere persoana" << std::endl;
    m_sCnp = p.m_sCnp;
    m_sNume = p.m_sNume;
    m_sAdresa = p.m_sAdresa;
}

PersoanaAC::~PersoanaAC()
{
    std::cout << "destructor PersoanaAC" << std::endl;
}

void PersoanaAC::afisareProfil()
{
    std::cout << "Nume: " << m_sNume << " CNP: " << m_sCnp
        << " Adresa: " << m_sAdresa << std::endl;
}

void PersoanaAC::schimbareAdresa(std::string adresaNoua)
{
    m_sAdresa = adresaNoua;
}

StudentAC::StudentAC()
{
    std::cout << "constr. fara arg. StudentAC" << std::endl;
    m_ianStudiu = 0;
    m_inotaP2 = 0;
}

StudentAC::StudentAC(std::string cnp, std::string nume, std::string adresa, int anStudiu, int notaP2)
    :PersoanaAC(cnp, nume, adresa), m_ianStudiu(anStudiu), m_inotaP2(notaP2)
{
    std::cout << "constr. cu arg. StudentAC" << std::endl;
}

StudentAC::~StudentAC()
{
    std::cout << "destructor StudentAC" << std::endl;
}

StudentAC::StudentAC(const StudentAC &st):PersoanaAC(st)
{
    m_ianStudiu = st.m_ianStudiu;
    m_inotaP2 = st.m_inotaP2;
}
```

```
void StudentAC::afisareProfil()
{
    //cout << "Nume: " << m_sNume << " CNP: " << m_sCnp
    // << " Adresa: " << m_sAdresa << endl;
    PersoanaAC::afisareProfil();
    std::cout << "An studiu: " << m_ianStudiu << " Nota P2: " << m_inotaP2 <<
        std::endl;
}

void StudentAC::inscriereAnStudiu(int anStudiuNou)
{
    m_ianStudiu = anStudiuNou;
}

int main()
{
    PersoanaAC p1("1234567890123", "Ana", "Iasi");
    p1.afisareProfil();

    StudentAC s2;
    s2.afisareProfil();

    StudentAC s1("1234567890122", "Ion", "Vaslui", 2, 10);
    s1.schimbareAdresa("Bucuresti");
    s1.inscriereAnStudiu(3);
    s1.afisareProfil();

    //constructor copiere

    std::cout << "Copiere " << std::endl;

    StudentAC s3(s1);
    s3.afisareProfil();

    return 0;
}
```