

**Esercizio 11.12.** Il seguente programma compila ed esegue correttamente.

```
class A {
    friend class C;
private:
    int k;
public:
    A(int x=2): k(x) {}
    void m(int x=3) {k=x;}
};

class C {
private:
    A* p;
    int n;
public:
    C(int k=3) {if (k>0) {p = new A[k]; n=k;}}
    A* operator->() const {return p;}
    A& operator*() const {return *p;}
    A* operator+(int i) const {return p+i;}
    void F(int k, int x) {if (k<n) p[k].m(x);}
    void stampa() const {
        for(int i=0; i<n; i++) cout << p[i].k << ' ';
    }
};

int main() {
    C c1; c1.F(2,9);
    C c2(4); c2.F(0,8);
    *c1=*c2;
    (c2+3)->m(7);
    c1.stampa(); cout << "UNO\n";
    c2.stampa(); cout << "DUE\n";
    c1=c2;
    *(c2+1)=A(3);
    c1->m(1);
    *(c2+2)=*c1;
    c1.stampa(); cout << "TRE\n";
    c2.stampa(); cout << "QUATTRO";
}
```