```
#include <iostream>     // enth1.cpp
using namespace std;
class X {  int i;
   public: X(int n):i(n){ // Konstruktor
               cout<<"Konstruktor X, i = "<<i<<endl;
           }
           ~X(){ cout<<"Destruktor X, i = "<<i<<endl; }
           void display(){ cout<<"class X, i = "<<i<<endl; }
};

class C { X a;              // Komposition
          X* p;             // Aggregation
          X& r;             // Aggregation
          char *s;
  public:
          C(int i, int j, int k, char *s):a(i), p(new X(j)),
            r(*new X(k)),
            s(s?strcpy(new char[strlen(s)+1],s):0){
            cout<<"Konstruktor C"<<endl; show();
          }

          C(X x, X * xp, X & xr, char s[]):a(x),
           p(new X(*xp)),
           r(*new X(xr)),
           s(s?strcpy(new char[strlen(s)+1],s):0){
           cout<<"Konstruktor C"<<endl; show();
          }

          ~C(){ cout<<"Destruktor C"<<endl; show();
            delete p; p=0; delete &r; delete [] s; s=0;
          }

          void show(){ cout<<"class C,  show\n";
             cout<<(s?s:"0")<<endl; a.display(); p->display();
             r.display();
          }
};

void main(){
            C *c=new C(1,2,3,"HTW Dresden");
            c->show();
            delete c; c = 0;
            X x = 1;            // X x(1);
            X *xp = new X(2);
            X &xr = *new X(3);
            C c1(x,xp,xr,"Versuch 2");
            c1.show();
            delete xp; xp = 0;
            delete &xr;         // &xr = 0; nicht moeglich
}
```