```
#include <iostream>
using namespace std;
class ratio {
    private: long zaehl, nenn;
    friend ostream & operator << (ostream &, ratio &);
};
class object {
    public: void aus(){};
             virtual ~object(){ cout<<"Destruktor object\n"; }</pre>
};
ostream &operator<<(ostream & cout, ratio &z){
    return cout<<z.zaehl<<" "<<z.nenn;</pre>
class intObject : public object {
    public: intObject(int x=0):wert(x){};
             int wert;
             void aus(){ cout<<wert<<endl; }</pre>
             virtual ~intObject(){ cout<<"Destruktor intObject\n"; }</pre>
};
class charptrObject : public object {
    public: charptrObject(char *s=""):
                             adr(s?strcpy(new char[strlen(s)+1], s):0){}
             char *adr;
             void aus(){ cout<<(adr?adr:"0")<<endl;</pre>
                           cout<<typeid(*this).name()<<endl;</pre>
             virtual ~charptrObject(){ delete [] adr; adr=0;
                                          cout<<"Destruktor charptrObject\n";</pre>
             }
};
class ratioObject : public ratio, public object {
    public: ratioObject(long z=0L, long n=1L):ratio(z,n){};
             void aus(){ cout<<*this<<endl; }</pre>
             virtual ~ratioObject(){ cout<<"Destruktor ratioObject\n"; }</pre>
};
void main(){
  object *feld[3];
  feld[0]=new intObject(4711);
  feld[1]=new charptrObject("HTW");
  feld[2]=new ratioObject(3,4);
//Nachteil zu virtual: spezifische casts notwendig
  ((intObject *)feld[0])->aus(); // 4711
  ((charptrObject *)feld[1])->aus();// HTW class charptrObject
((ratioObject *)feld[2])->aus(); // 3 4
//Allgemein mit dynamic_cast
  for(int i=0; i<3; i++){
   if(dynamic_cast<object *>(feld[i])) ((object *)feld[i])->aus();
   if(dynamic_cast<intObject *>(feld[i])) ((intObject *)feld[i])->aus();
if(dynamic_cast<charptrObject *>(feld[i])) ((charptrObject *)feld[i])->aus();
   if(dynamic_cast<ratioObject *>(feld[i])) ((ratioObject *)feld[i])->aus();
  delete feld[0]; feld[0]=0; delete feld[1]; feld[1]=0;
  delete feld[2]; feld[2]=0;
```