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1  #include <iostream>
2  #include <cstring>
3
4  using std::cout;
5  using std::endl;
6
7  class Allat {
8  private:
9      char *nev;
10 protected:
11     enum { tele, ures } bendo;
12 public:
13     Allat(const char *knev) : bendo(ures) {
14         nev = new char[strlen(knev) + 1];
15         strcpy(nev, knev);
16     }
17     bool isEhes() { return bendo==ures; }
18     const char *getNev() { return nev; }
19     virtual void jatszikk(Allat *pajtas) = 0;
20     virtual void hallat() = 0;
21     virtual ~Allat() {
22         cout<< "~" << nev << endl;
23         delete [] nev;
24     }
25 };
26
27 class Majom : public Allat {
28 protected:
29     static const char* HANG;
30 public:
31     Majom(const char *knev) : Allat(knev) { }
32     void jatszikk(Allat *pajtas) {
33         this->hallat();
34         pajtas->hallat();
35     }
36     void hallat() { cout << HANG << ":" << getNev() << endl; }
37     ~Majom() { cout << HANG << HANG << " "; }
38 };
39
40 const char* Majom::HANG = "Mak";
41
42 class Tigris : public Allat {
43 public:
44     Tigris(const char *knev) : Allat(knev) { }
45     void jatszikk(Allat *pajtas) {
46         delete pajtas;
47         bendo = tele;
48     }
49     void hallat() { cout << "HRRR" << endl;}
50 };
51
52

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53 class CirkusziTigris : private Tigris {
54 public:
55     CirkusziTigris(const char *knev) : Tigris(knev) { }
56     void hallat() {
57         Tigris::hallat();
58         cout << getNev() << " vagyok, idomított tigris.\n";
59     }
60 };
61
62 int main() {
63     Allat *cicus = new Tigris("Cicus");
64     Allat *csita = new Majom("Csita");
65     Allat *tarzan = new Majom("ÁIÁIÁIÁ");
66     cout << "-= Csita játszik -= " << endl;
67     csita->jatszik(tarzan);
68     csita->jatszik(cicus);
69     cout << "-= Cicus játszik -= " << endl;
70     cicus->jatszik(csita);
71     cicus->jatszik(tarzan);
72     cout << "-= Attrakció -= " << endl;
73     CirkusziTigris *ubul = new CirkusziTigris("Ubul");
74     ubul->hallat();
75     delete cicus;
76     delete ubul;
77 }

```

```

#include <iostream>
using namespace std;
class A {
protected:
    int k;
public:
    A(const int i = 0) :k(i){ cout << 'k'; }
    A(const A& a) { k = a.k; cout << 'c'; }
    void operator=(A& a) { k = a.k; f(a); cout << 'e'; }
    A& operator*(int i) { cout << i*100; return *this; }
    virtual void f(A a) { k++; cout << 'f'; }
    ~A() { cout << 'd'; }
};
class B :public A {
    int k;
public:
    B(const int i = 0) :k(i){ cout << 'K'; }
    B(B& b) :k(b.k) { cout << k << 'C'; }
    B& operator*(int i) { cout << i; return *this; }
    void f(A a) { A::f(a); cout << 'F' << A::k; }
    ~B() { cout << 'D' << k; }
};
B& operator*( int i, B& b ) { cout << i; return b; }
void main() {
    B b(12); cout << '\n';    // .....
    A a = b; cout << '\n';    // .....
    b = b * 2; cout << '\n';  // .....
    b = 3 * b; cout << '\n';  // .....
}
// .....

```