

Задача 5. (10 точки) Дадена е следната програма, написана на C++. Разгледайте кода на програмата. След като отстраните грешките, намерете резултата от изпълнението ѝ.

<pre>#include <iostream> #include <string> using namespace std; class Base { char *name; protected: Base(char *nn = "Base") { if (nn != NULL) { name = new char[16]; strncpy(name, nn, 16); } } public: virtual void f1() { cout << name << ": f1 " << endl; } virtual ~Base() { delete [] name; } private: virtual void f2() { cout << name << ": f2 " << endl; } public: virtual void f3() { cout << name << ": f3 " << endl; } }; class Der : public Base { char *name; public: Der(char *nn = "Der") : Base("Der.Base") { if (nn != NULL) { name = new char[16]; strncpy(name, nn, 16); } } ~Der() { cout << name << ": destr" << endl; delete [] name; } };</pre>	<pre>protected: void f1() { cout << name << ": f1" << endl; } public: void f2() { cout << name << ": f2" << endl; } private: void f3() { cout << name << ": f3" << endl; } }; int main() { Base *p = new Der("Dyn"); Der d("Stat"); Base b; Base *q = &d; b.f1(); p -> f1(); d.f1(); q -> f1(); b.f2(); p -> f2(); d.f2(); q -> f2(); b.f3(); p -> f3(); d.f3(); q -> f3(); delete p; return 0; }</pre>
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