

Repetitorium Test 3

Repetitorium Test 3

```
#include <iostream>
using namespace std;
class X {
    static int n;
    int no;
public:
    X(): no {n++} {cout << no;}
    X(const X& x): no {x.no*3} {}
    X& operator=(const X& x) {
        no = 2*x.no;
        return *this;
    }
    ~X() {cout << no;}
};
int X::n {5};

int main()
{
    X a, b, c{b = a};
    return 0;
}
```

5630105

```
#include <iostream>
using namespace std;
class X {
    static int n;
    int no;
public:
    X(): no {n++} {cout << no;}
    X(const X& x): no {x.no*5} {}
    X& operator=(const X& x) {
        no = 7*x.no;
        return *this;
    }
    ~X() {cout << no;}
};
int X::n {4};

int main()
{
    X a;
    {
        X b{a};
    }
    X d;
    return 0;
}
```

420554

Repetitorium Test 3

```
#include <iostream>
using namespace std;

class X {
    int a;
public:
    X(int n=9): a{n} {
        cout << a;
    }
    ~X() {
        cout << a;
    }
};

int main() {
    X y[3] {6, 2};
    {
        X *xp = new X[3] {4, 7};
    }
    return 0;
}
```

629479926

```
#include <iostream>
using namespace std;
class X {
    static int n;
    int no;
public:
    X(): no {n++} {cout << no;}
    X(const X& x): no {x.no*3} {}
    X& operator=(const X& x) {
        no = 5*x.no;
        return *this;
    }
    ~X() {cout << no;}
};
int X::n {2};

void f(const X& x1) {
    X *x2 {new X[2]};
}
int main()
{
    X a;
    f(a);
    return 0;
}
```

2342

Repetitorium Test 3

```
#include <iostream>
using namespace std;

class X {
protected:
    int x;
public:
    X(int i = 6): x {i} {}
    virtual void print() const { cout << x; }
    void operator-(const X rop) { this->print(); rop.print();}
};

class Y : public X {
    void print() const { cout << '=' << x; }
};

int main() {
    X x {9};
    Y y;
    x - y;
    y - x;
    return 0;
}
```

96=69

```
#include <iostream>
using namespace std;

class X {
    int a;
public:
    X(int n = 7): a{n} {
        cout << a++;
    }
    X f() {
        return a+2;
    }
    ostream& print(ostream& o) { return o << a; }
};

int main() {
    X x, a {x.f()};
    a.print(cout);
    return 0;
}
```

71011

Repetitorium Test 3

```
#include <iostream>
using namespace std;
class X {
    static int n;
    int no;
public:
    X(): no {n++} {cout << no;}
    X(const X& x): no {x.no*5} {}
    X& operator=(const X& x) {
        no = 8*x.no;
        return *this;
    }
    ~X() {cout << no;}
};
int X::n {4};

void f(const X& x1) {
    X x2 {x1};
}

int main()
{
    X a;
    f(a);
    return 0;
}
```

4204

```
#include <iostream>
using namespace std;

class X {
    int a;
public:
    X(int n = 3): a(n) { cout << a; }
    X(const X& x): a {x.a} {
        cout << 7*a;
    }
    ~X() {cout << a;}
    X& operator=(const X& x) {
        cout << a << x.a;
        return *this;
    }
};

void f(X a, const X& b) {
    a = b;
}

int main() {
    X x, y {5};
    f(x,y);
    return 0;
}
```

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Repetitorium Test 3

```
#include <iostream>
using namespace std;

class X {
public:
    int a;
    X(int n = 2): a {n} {
    }
    X(const X& x): a {x.a+6} {
        cout << a << x.a;
    }
};

int f(X x) {
    return x.a * 4;
}

int main() {
    X x;
    cout << f(x);
    return 0;
}
```

8232

```
#include <iostream>
using namespace std;
class X {
    static int n;
    int no;
public:
    X(): no {n++} {cout << no;}
    X(const X& x): no {x.no*3} {}
    X& operator=(const X& x) {
        no = 7*x.no;
        return *this;
    }
    ~X() {cout << no;}
};
int X::n {2};

int main()
{
    X *ptr = nullptr;
    {
        X *a {new X};
        ptr = a;
    }
    X b, c;
    delete ptr;
    X d;
    return 0;
}
```

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Repetitorium Test 3

```
#include <iostream>
using namespace std;

class X {
    static int no;
public:
    X(int i = 8) {
        cout << ++no;
    }
    ~X() {
        cout << --no;
    }
};
int X::no {4};

int main() {
    X x, y {2};
    for (int i {0}; i<2; ++i) {
        X x {6};
    }
    X a;
    return 0;
}
```

5676767654

```
#include <iostream>
using namespace std;

class X {
    int a;
public:
    X(int n = 4): a{n} {
        cout << a;
    }
    X f() {
        X res {a+7};
        return res;
    }
    void print() {
        cout << "a:" << a;
    }
};

int main() {
    X x;
    x.f().print();
    return 0;
}
```

411a:11

Repetitorium Test 3

```
#include <iostream>
using namespace std;
class X {
protected:
    static int n;
    int no;
public:
    X(): no {n++} {cout << no;}
    virtual void f(const X& x) {cout << "X" << no << x.no;}
};
int X::n {5};
class Y : public X {
public:
    void f(const X& x) {cout << "Y" << no;}
};

int main()
{
    X a, b;
    Y c;
    b = c;
    b.f(a);
    return 0;
}
```

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```
#include <iostream>
using namespace std;

class X {
    int a;
public:
    X(int n = 6): a {n} {}
    friend ostream& operator<<(ostream&, X);
};

ostream& operator<<(ostream& o, X x) {
    return o << x.a+7;
}

int main() {
    X x {9};
    X y;
    y = x;
    cout << x << y;
    return 0;
}
```

1616

Repetitorium Test 3

```
#include <iostream>
using namespace std;
class X {
protected:
    static int n;
    int no;
public:
    X(): no {n++} {cout << no;}
    virtual ostream& print (ostream& o) const {return o << ':' << no;}
    void f(X x) const {
        this->print(cout);
        x.print(cout);
    }
};
int X::n {4};

class Y : public X {
public:
    ostream& print(ostream& o) const{X::print(o); return o << no+8;}
};

int main()
{
    Y a, b;
    a.f(b);
    return 0;
}
```

45:412:5