

Course: CPA - Programming Essentials

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Module 2 Test

● Online

Progress (5%)

☰

Item 1/20

Time Left: 29:57

What is the output of the following snippet?

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

class X {
public:
    virtual void shout() { cout << "X"; }
};

class Y : public X {
public:
    void shout() { cout << "Y"; }
};

class Z : public Y {
public:
    void shout() { cout << "Z"; }
};

int main() {
    Z *z = new Z();
    static_cast<Y*>(z) -> shout();
    return 0;
}
```

☐ X

☒ Z

☐ Y

☐ Compilation fails

Next →

In the first class of the hierarchy "X" the "shout()" method is declared as virtual.

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Module 2 Test

Online

Progress (10%)

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Item 2/20

Time Left: 29:38

What is the output of the following snippet?

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

class X {
public:
    virtual void shout() { cout << "X"; }
};

class Y : public X {
public:
    void shout() { cout << "Y"; }
};

class Z : public Y {
public:
    void shout() { cout << "Z"; }
};

int main() {
    Y *y = new Z();
    dynamic_cast<X*>(y) -> shout();
    return 0;
}
```

In the first class of the hierarchy "X" the "shout()" method is declared as virtual.

☐ X

☐ Compilation fails

☒ Z

☐ Y

← Prev

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Progress (15%)

Item 3/20

Time Left: 29:23

What is the output of the following snippet?

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

class A {
    int *val;
public:
    A() { val = new int; *val = 0; }
    int get() { return ++(*val); }
};

int main() {
    A a,b = a;
    cout << a.get() << b.get();
    return 0;
}
```

☐ 20

☐ Compilation fails

☐ 22

☐ 21

← Prev

Next →

The correct answer is 12.

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Progress (20%)

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Item 4/20

Time Left: 29:09

What is the output of the following snippet?

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

class A {
public:
    A() : val(0) {}
    int val;
    virtual void run() { cout << val; }
};

class B : public A {
};

class C : public B {
public:
    void run() { cout << val + 2; }
};

void Do(A *a) {
    B *b;
    C *c;
    if(b = dynamic_cast<B *>(a))
        b->run();
    if(c = dynamic_cast<C *>(a))
        c->run();
    a->run();
}

int main() {
    A *a = new C();
    Do(a);
}
```

☐ 212

☐ 210

☒ 222

☐ Compilation fails

← Prev

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Progress (25%)

☰

Item 5/20

Time Left: 28:58

What is the output of the following snippet?

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

class X {
public:
    void shout() { cout << "X"; }
};

class Y : public X {
public:
    void shout() { cout << "Y"; }
};

int main() {
    X *x = new Y();
    static_cast<Y*>(x) -> shout();
    return 0;
}
```

☐ It prints nothing

☒ Y

☐ Compilation fails

☐ X

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Progress (30%)

☰

Item 6/20

Time Left: 28:46

What is the output of the following snippet?

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

class A {
public:
    const int v;
    A(int x) : v(x + 1) {}
    int get() { return ++v; }
};

int main() {
    A a(2);
    cout << a.get();
    return 0;
}
```

☐ 3

☐ 2

☒ Compilation fails

☐ 1

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Progress (35%)

☰

Item 7/20

Time Left: 28:36

What is the output of the following snippet?

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

class X {
private:
    int v;
};

class Y : public X {
    Y() : v(0) {}
}

int main() {
    Y y;
    cout << y.v;
    return 0;
}
```

🚩

☐ Compilation fails

☐ -1

☐ 1

☐ 0

← Prev

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Progress (40%)

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Item 8/20

Time Left: 28:22

What is the output of the following snippet?

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

class X {
public:
    int v;
    void put(int x) { v = x; }
    int get(void) { return v; }
};

class Y : public X {
public:
    Y() { put(0); }
    void write(int x) { put(x + 1); }
    int read(void) { return get() - 1; }
};

int main() {
    Y *y = new Y();
    y->write(1);
    cout << y->read();
    delete y;
    return 0;
}
```

🚩

Compilation fails

☒ 1

☐ 0

☐ -1

← Prev

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Progress (45%)

☰

Item 9/20

Time Left: 28:09

What is the output of the following snippet?

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

class A {
public:
    A() : val(0) {}
    int val;
    void inc() { ++val; }
};

void Do(A a) {
    a.inc();
}

int main() {
    A a;
    Do(a);
    a.inc();
    cout << a.val;
    return 0;
}
```

☒ 1

☐ 2

☐ Compilation fails

☐ 0

← Prev

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Progress (50%)

☰

Item 10/20

Time Left: 27:56

What is the output of the following snippet?

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

class A {
    int *val;
public:
    A() { val = new int; *val = 0; }
    A(A &a) { val = new int; *val = a.get(); }
    int get() { return ++(*val); }
};

int main() {
    A a,b = a;
    cout << a.get() << b.get();
    return 0;
}
```

☒ 20

☐ Compilation fails

☐ 21

☐ 22

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Progress (55%)

☰

Item 11/20

Time Left: 27:45

What is the output of the following snippet?

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

class A {
public:
    A() : val(0) {}
    int val;
    int inc() { ++val; return val--; }
};

void Do(A *a) {
    a-> val = a->inc();
}

int main() {
    A a;
    Do(&a);
    cout << a.inc();
    return 0;
}
```

☐ Compilation fails

☐ 0

☒ 2

☐ 1

← Prev

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Progress (60%)

☰

Item 12/20

Time Left: 27:31

What is the output of the following snippet?

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

class X {
public:
    void shout() { cout << "X"; }
};

class Y : public X {
public:
    virtual void shout() { cout << "Y"; }
};

class Z : public Y {
public:
    void shout() { cout << "Z"; }
};

int main() {
    Y *y = new Z();
    dynamic_cast<X*>(y) -> shout();
    return 0;
}
```

☒ x

☐ z

☐ Compilation fails

☐ y

← Prev

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Progress (65%)

Item 13/20

Time Left: 27:19

What is the output of the following snippet?

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

class A {
friend class B;
private:
    int field;
public:
    int set(int x) { return field = ++x; }
    int get() { return ++field; }
};

class B {
public:
    void kill(A &a) { a.field = 0; }
};

int main() {
    A a; B b;
    a.set(1);
    b.kill(a);
    cout << a.get();
    return 0;
}
```

☐ 0

☐ 2

☒ 1

☐ Compilation fails

← Prev

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● Online

Progress (70%)

☰

Item 14/20

Time Left: 27:07

What is the output of the following snippet?

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

class X {
protected:
    int v;
};

class Y : protected X {
    Y() : v(0) {}
}

int main() {
    Y *y = new Y();
    cout << y->v;
    delete y;
    return 0;
}
```

☐ Compilation fails

☐ -1

☐ 0

☐ 1

← Prev

Next →

The attribute “v” is protected in class X and Y.

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Progress (75%)

Item 15/20

Time Left: 26:57

What is the output of the following snippet?

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

class X {
public:
    void shout() { cout << "X"; }
};

class Y : public X {
};

class Z : public Y {
public:
    void shout() { cout << "Z"; }
};

int main() {
    Z *z = new Z();
    static_cast<Y*>(z) -> shout();
    return 0;
}
```

☐ z

☐ Compilation fails

☒ x

☐ y

← Prev

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Module 2 Test

● Online

Progress (80%)

Item 16/20

Time Left: 26:46

What is the output of the following snippet?

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

class A {
public:
    A() : val(0) {}
    int val;
    void run() { cout << val; }
};

class B : public A {
public:
    virtual void run() { cout << val + 2; }
};

class C : public B {
};

void Do(A *a) {
    B *b;
    C *c;
    if(b = static_cast<B *>(a))
    |   b->run();
    if(c = dynamic_cast<C *>(b))
    |   c->run();
    a->run();
}

int main() {
    A *a = new C();
    Do(a);
}
```

☐ 220

☐ Compilation fails

☐ 222

☐ 221

← Prev

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● Online

Progress (85%)

☰

Item 17/20

Time Left: 26:34

What is the output of the following snippet?

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

class X { };
class Y : public X { };
class Z : public X { };

int main() {
    Z *z = new Z();
    Y *y = new Y();
    z = y;
    cout << (z == y);
    return 0;
}
```

☐ 1

☒ Compilation fails

☐ -1

☐ 0

← Prev

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● Online

Progress (90%)

☰

Item 18/20

Time Left: 26:25

What is the output of the following snippet?

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

class A {
public:
    int v;
    A(int x) : v(x + 1) {}
    int get() const { return v; }
};

int main() {
    A a(2);
    A b(a);
    cout << a.get() << b.get();
    return 0;
}
```

☐ 23

☒ 33

☐ Compilation fails

☐ 13

← Prev

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Module 2 Test

● Online

Progress (95%)

☰

Item 19/20

Time Left: 26:14

What is the output of the following snippet?

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

class X { };
class Y : public X { };
class Z : public X { };

int main() {
    Z *z = new Z();
    X *x = new X();
    x = z;
    cout << (x == z);
    return 0;
}
```

☐ Compilation fails

☐ -1

☐ 0

☒ 1

← Prev

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Progress (100%)

☰

Item 20/20

Time Left: 26:02

What is the output of the following snippet?

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

class A {
friend void f();
private:
    int field;
public:
    int set(int x) { return field = ++x; }
    int get() { return ++field; }
};

void f(A &a) { a.field /= 2; }

int main() {
    A a;
    a.set(2);
    f(a);
    cout << a.get();
    return 0;
}
```

☐ 1

☒ Compilation fails

☐ 0

☐ 2

← Prev

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The friend function is not correctly declared inside the class. It should be "friend void f(A &amp;a);"

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