

Course: CPA - Programming Essentials

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Module 2 Quiz

Online

Progress (10%)

☰

Item 1/10

Time Left: 14:57

What is the output of the following program?

```
#include <iostream>
using namespace std;
class A {
public:
    char c;
};
class B : A {
};
int main(void) {
    B b;
    A a;
    a.c = b.c = '?';
    cout << int(a.c - b.c) << endl;
    return 0;
}
```

☐ 1

☒ the program will cause a compilation error

☐ 4

☐ 2

Next →

If inheritance qualifier is not specified, it is “private” by default and A “c” attribute becomes private in B.

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Module 2 Quiz

● Online

Progress (20%)

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Item 2/10

Time Left: 14:32

What is the output of the following program?

```
#include <iostream>
using namespace std;
class A {
public:
    int x;
    void d() { x /= 2; }
};
class B : public A {
public:
    int y;
    void d() { y /= 4; }
};
int main(void) {
    B b;
    b.x = b.y = 4;
    b.d();
    cout << b.x / b.y << endl;
    return 0;
}
```

☐ 2

☒ 4

☐ 1

☐ the program will cause a compilation error

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Module 2 Quiz

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Progress (30%)

Item 3/10

Time Left: 13:00

What is the output of the following program?

```
#include <iostream>
using namespace std;
class A {
public:
    int x;
    void d() { x /= 2; }
};
class B : public A {
public:
    int y;
    void d() { A::d(); }
};
int main(void) {
    B b;
    b.x = b.y = 4;
    b.d();
    cout << b.y / b.x << endl;
    return 0;
}
```

☐ 1

☒ 2

☐ the program will cause a compilation error

☐ 3

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Progress (40%)

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Item 4/10

Time Left: 11:54

What is the output of the following program?

```
#include <iostream>
using namespace std;
class A {
public:
    int work(void) { return 4; }
};
class B : public A {
public:
    int relax(void) { return 2; }
};
class C : public A {
public:
    int relax(void) { return 1; }
};
int main(void) {
    A *a0 = new A, *a1 = new B, *a2 = new C;
    cout << a0 -> work() + static_cast<C*>(a2) -> relax() / static_cast<B*>(a1) -> relax() << endl;
    return 0;
}
```

☐ 1

☒ 4

☐ the program will cause a compilation error

☐ 2

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Progress (50%)

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Item 5/10

Time Left: 10:34

What is the output of the following program?

```
#include <iostream>
using namespace std;
class A {
public:
    int p(void) { return 2; }
};
class B : public A {
public:
    int p(void) { return 1; }
};
int main(void) {
    A *a = new B;
    cout << static_cast<A*>(a)->p() << endl;
    return 0;
}
```

☐ 4

☐ 1

☐ the program will cause a compilation error

☒ 2

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Progress (60%)

Item 6/10

Time Left: 09:51

What is the output of the following program?

```
#include <iostream>
using namespace std;
void f(const int &v) {
    ++v;
    return v + 1;
}
int main(void) {
    int i = 1, j = f(i);
    cout << j - i << endl;
    return 0;
}
```

☐ the program will cause a compilation error

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Inside "f" the variable "v" is declared as constant.

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Progress (70%)

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Item 7/10

Time Left: 09:02

What is the output of the following program?

```
#include <iostream>
using namespace std;
class A { friend class B;
    int a;
public:
    A() : a(1) {}
    int f() { return a; }
};
class B {
public:
    static void f(A &a) { a.a++; }
};
int main(void) {
    A a;
    B::f(a);
    cout << a.f() << endl;
    return 0;
}
```

☐ 1

☒ 2

☐ the program will cause a compilation error

☐ 4

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Progress (80%)

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Item 8/10

Time Left: 08:06

What is the output of the following program?

```
#include <iostream>
using namespace std;
class A { friend void i(A*);
    int a;
public:
    A() : a(2) {}
    int f() { return a; }
};
void i(A *a){
    a->a *= 2;
}
int main(void) {
    A a;
    i(&a);
    cout << a.f() << endl;
    return 0;
}
```

☐ 1

☐ the program will cause a compilation error

☐ 2

☒ 4

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Progress (90%)

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Item 9/10

Time Left: 07:25

What is the output of the following program?

```
#include <iostream>
using namespace std;
class A { friend void i(int);
    int a;
public:
    A() : a(4) {}
    int f() { return a; }
};
void i(int a){
    a /= 2;
}
int main(void) {
    A a;
    i(a.a);
    cout << a.f() << endl;
    return 0;
}
```

☐ 4

☐ the program will cause a compilation error

☐ 2

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Progress (100%)

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Item 10/10

Time Left: 06:38

What is the output of the following program?

```
#include <iostream>
using namespace std;
class B;
class A {
    friend class B;
    int a;
public: A() : a(4) {}
    void f(B &b, A &a);
    int out(void) { return a; }
};
class B {
    friend class A;
    int b;
public: B() : b(2) {}
    void f(A &a) { a.a /= b; }
};
void A::f(B &b, A &a) { b.f(*this); }
int main(void) {
    A a;
    B b;
    a.f(b,a);
    cout << a.out() << endl;
    return 0;
}
```

☐ 4

☐ the program will cause a compilation error

☐ 1

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← Prev

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