

Course: CPA - Programming Esse

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Module 1 Test

● Online

Progress (10%)

☰

Item 2/20

Time Left: 29:40

What is the output of the following snippet?

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

class A {
public:
    float v;
    float set(float v) {
        v += 1.0;
        this -> v = v;
        return v;
    }
    float get(float d) {
        v += 1.0;
        return v;
    }
};

int main() {
    A a;
    cout << a.get(a.set(a.set(0.5)));
    return 0;
}
```

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☐ Compilation fails

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Module 1 Test

● Online

Progress (15%)

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Item 3/20

Time Left: 29:29

What is the output of the following snippet?

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

class A {
public:
    int cnt;
    void put(int v);
};

void A::put(int v) { cout << ++cnt; }

int main() {
    A a[2];
    a[0].cnt = 0;
    a[1].cnt = 1;
    a[a[0].cnt].put(a[1].cnt);
    return 0;
}
```

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Module 1 Test

● Online

Progress (20%)

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Item 4/20

Time Left: 29:16

What is the output of the following snippet?

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

class A {
public:
    A() { v = 2.5; }
    A(float v) { A::v = v + 1.0; }
    float v;
    float set(float v) {
        | A::v += 1.0;
        | return v;
    }
    float get(float v) {
        | v += A::v;
        | return v;
    }
};

int main() {
    A a,b(1.0);
    cout << a.get(b.set(1.5));
    return 0;
}
```

☐ Compilation fails

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Module 1 Test

● Online

Progress (25%)

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Item 5/20

Time Left: 29:03

What is the output of the following snippet?

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

class A {
public:
    float v;
    A() : v(1.0) {}
    A(A &a) : v(2.0) {}
    A(float f) : v(3.0) {}
    float get() {
        return A::v;
    }
};

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

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☐ Compilation fails

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Module 1 Test

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Progress (30%)

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Item 6/20

Time Left: 28:49

What is the output of the following snippet?

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

class A {
public:
    A() { v = 2.5; }
    float v;
    float set(float v) {
        | A::v += 1.0;
        | return v;
    }
    float get(float v) {
        | v += A::v;
        | return v;
    }
};

int main() {
    A a;
    cout << a.get(a.set(1.5));
    return 0;
}
```

☐ Compilation fails

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Module 1 Test

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Progress (35%)

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Item 7/20

Time Left: 28:37

What is the output of the following snippet?

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

class A {
public:
    float v;
    float set(float v) {
        | A::v += 1.0;
        | A::v = v + 1.0;
        | return v;
    }
    float get(float v) {
        | v += A::v;
        | return v;
    }
};

int main() {
    A a;
    cout << a.get(a.set(a.set(0.5)));
    return 0;
}
```

☐ 1.5

☐ Compilation fails

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Progress (40%)

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Item 8/20

Time Left: 28:25

What is the output of the following snippet?

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

class A {
public:
    A() { v = 2.5; }
    float v;
    float set(float v) {
        | A::v += 1.0;
        | return v;
    }
    float get(float v) {
        | v += A::v;
        | return v;
    }
};

int main() {
    A a;
    a.A();
    cout << a.get(a.set(1.5));
    return 0;
}
```

You cannot call the constructor as a normal method.

☐ Compilation fails

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Progress (45%)

Item 9/20

Time Left: 28:14

What is the output of the following snippet?

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

class A {
public: string a(string b) {
    return b.substr(0,2);
}};

class B {
public: string a(string b) {
    return b.substr(2,2);
}};

int main() {
    A a;
    B b;
    cout << a.a(b.a("ABCD"));
    return 0;
}
```

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Progress (50%)

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Item 10/20

Time Left: 27:59

What is the output of the following snippet?

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

class A {
public:
    float v;
    A() { v = 1.0; }
    A(A &a) { A::v = a.v; cout << "1"; }
    ~A() { cout << "0"; }
    float set(float v) {
        | A::v = v;
        | return v;
    }
    float get(float v) {
        | return A::v;
    }
};

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

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☐ Compilation fails

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Module 1 Test

● Online

Progress (55%)

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Item 11/20

Time Left: 27:22

What is the output of the following snippet?

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

class A {
    int cnt;
    void put(int v) { cout << cnt++; }
};

int main() {
    A a;
    a.cnt = 0;
    a.put(1);
    a.put(1);
    return 0;
}
```

"cnt" is a private attribute.

☐ Compilation fails

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Progress (60%)

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Item 12/20

Time Left: 27:08

What is the output of the following snippet?

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

class A {
public:
    float v;
    float set(float v) {
        |   A::v += 1.0;
        |   return v;
    }
    float set(void) {
        |   A::v = v + 1.0;
        |   return 0.0;
    }
    float get(float v) {
        |   v += A::v;
        |   return v;
    }
};

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

☐ Compilation fails

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Module 1 Test

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Progress (65%)

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Item 13/20

Time Left: 26:55

What is the output of the following snippet?

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

class A {
public:
    A(A &a) { v = a.get(0.0); }
    A(float v) { A::v = v; }
    float v;
    float set(float v) {
        | A::v += v;
        | return v;
    }
    float get(float v) {
        | return A::v + v;
    }
};

int main() {
    A a(0.), b = a;
    cout << a.get(b.set(1.5));
    return 0;
}
```

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☐ Compilation fails

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Module 1 Test

● Online

Progress (70%)

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Item 14/20

Time Left: 26:42

What is the output of the following snippet?

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

class A {
public:
    A(float v) { A::v = v; }
    float v;
    float set(float v) {
        |   A::v += v;
        |   return v;
    }
    float get(float v) {
        |   return A::v + v;
    }
};

int main() {
    A a,b(1.0);
    cout << a.get(b.set(1.5));
    return 0;
}
```

Default constructor is not present.

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☐ Compilation fails

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● Online

Progress (75%)

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Item 15/20

Time Left: 26:31

What is the output of the following snippet?

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

class A {
public:
    A(A *a) { v = a->get(0.0); }
    A(float v) { A::v = v; }
    float v;
    float set(float v) {
        |   A::v += v;
        |   return v;
        |
    }
    float get(float v) {
        |   return A::v + v;
        |
    }
};

int main() {
    A *a = new A(1.0), *b = new A(*a);
    cout << a->get(b->set(a->v));
    return 0;
}
```

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☐ Compilation fails

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Module 1 Test

● Online

Progress (80%)

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Item 16/20

Time Left: 26:20

What is the output of the following snippet?

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

class A {
    int data[3];
public:
    int cnt;
    void put(int v) { data[cnt++] = v; }
};

int main() {
    A a;
    a.cnt = 0;
    a.put(1);
    a.put(1);
    cout << a.cnt;
    return 0;
}
```

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☐ Compilation fails

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Module 1 Test

● Online

Progress (85%)

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Item 17/20

Time Left: 26:07

What is the output of the following snippet?

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

class A {
public:
    float v;
    A(float x) : v(x) {}
};

class B {
public:
    A a;
    float b;
    B(float x) : a(x + 1) { b = a.v; }
};

int main() {
    B b(2.0);
    cout << b.b;
    return 0;
}
```

☐ Compilation fails

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← Prev

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Module 1 Test

● Online

Progress (90%)

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Item 18/20

Time Left: 25:56

What is the output of the following snippet?

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

class A {
public:
    float v;
    A() { v = 1.0; }
    A(A &a) { A::v = a.v; cout << "1"; }
    ~A() { cout << "0"; }
    float set(float v) {
        | A::v = v;
        | return v;
    }
    float get(float v) {
        | return A::v;
    }
};

int main() {
    A a,*b = new A(a),*c = new A(*b);
    c->get(b->get(a.set(1.0)));
    delete b;
    delete c;
    return 0;
}
```

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☐ Compilation fails

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Module 1 Test

● Online

Progress (95%)

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Item 19/20

Time Left: 25:45

What is the output of the following snippet?

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

class A {
public:
    A(float v) { A::v = v; }
    float v;
    float set(float v) {
        |   A::v = v;
        |   return v;
        |   }
    float get(float v) {
        |   return A::v;
        |   }
};

int main() {
    A *a = new A(1.0), *b = new A(*a);
    cout << a->get(b->set(a->v));
    return 0;
}
```

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☐ Compilation fails

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Module 1 Test

● Online

Progress (100%)

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Item 20/20

Time Left: 25:34

What is the output of the following snippet?

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

class A {
public:
    A(A *v) { A::v = v; }
    A() { A::v = 1.0; }
    float v;
    float set(float v) {
        |   A::v = v;
        |   return v;
    }
    float get(float v) {
        |   return A::v;
    }
};

int main() {
    A a,*b = new A(a);
    cout << a->get(b->set(a->v));
    return 0;
}
```

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☐ Compilation fails

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Submit

It is not possible to assign a variable A to a float one: A(A *v) {A::v = v;}

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