

Course: CPA - Programming Essentials

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Module 1 Quiz

● Online

Progress (10%)

☰

Item 1/10

Time Left: 14:54

What is the output of the following program?

```
#include <iostream>
using namespace std;
class A {
    int a;
};

int main(void) {
    A a;
    a.a = 1/2;
    cout << a.a << endl;
    return 0;
}
```

☐ the program will cause a compilation error

☐ 0

☐ 1

☐ 0.5

Next →

"a" variable is declared as private.

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Module 1 Quiz

● Online

Progress (20%)

☰

Item 2/10

Time Left: 14:35

What is the output of the following program?

```
#include <iostream>
using namespace std;
class A {
    int a;
public:
    int b;
    A(void) { a = b = 1; }
};

int main(void) {
    A a;
    a.b /= 2;
    cout << a.b << endl;
    return 0;
}
```

☐ the program will cause a compilation error

☐ 0.5

☐ 1

☒ 0

← Prev

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Progress (30%)

☰

Item 3/10

Time Left: 14:21

What is the output of the following program?

```
#include <iostream>
using namespace std;
class A {
    int a;
public:
    A(void) { a = 1; }
    int b(void) { return ++a; }
};

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

☐ the program will cause a compilation error

☐ 2

☐ 1

☒ 3

← Prev

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Progress (40%)

Item 4/10

Time Left: 14:09

What is the output of the following program?

```
#include <iostream>
using namespace std;
class A {
public:
    A() { a[0] = 1; a[1] = 0; }
    int a[2];
    int b(void) { int x=a[0];a[0]=a[1];a[1]=x; return x; }
};

int main(void) {
    A a;
    a.b();
    cout << a.b() << a.a[1] << endl;
    return 0;
}
```

☐ 11

☒ 00

☐ the program will cause a compilation error

☐ 01

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Since C++ 17 the execution order is deterministic and thus a.b() and then a.a[1].

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Progress (50%)

☰

Item 5/10

Time Left: 13:58

What is the output of the following program?

```
#include <iostream>
using namespace std;
class A {
public:
    A() { a.a = a.b = 1; }
    struct { int a,b; } a;
    int b(void);
};
int A::b(void) { int x=a.a;a.a=a.b;a.b=x; return x; };
int main(void) {
    A a;
    a.a.a = 0;
    a.b();
    cout << a.b() << a.a.b << endl;
    return 0;
}
```

☐ 10

☒ 11

☐ the program will cause a compilation error

☐ 01

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Progress (60%)

☰

Item 6/10

Time Left: 13:46

What is the output of the following program?

```
#include <iostream>
using namespace std;
class A {
public:
    int a;
    A() { a = 1; }
    A(int aa) { a = 2; }
    A(A &aa) { a = 3; }
};

int main(void) {
    A a(1),b(a);
    cout << a.a + b.a << endl;
    return 0;
}
```

☐ the program will cause a compilation error

☐ 3

☐ 1

☒ 5

← Prev

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Progress (70%)

Item 7/10

Time Left: 13:35

What is the output of the following program?

```
#include <iostream>
using namespace std;
int z = 1;
class A {
public:
    int a;
    A() { a = 1; z++; }
    A(A &a) { a = 3; z++; }
    ~A() { z--; }
};
void fun(void) {
    A a,b(a),c(b);
}
int main(void) {
    cout << z << endl;
    return 0;
}
```

☒ 1

☐ 5

☐ the program will cause a compilation error

☐ 3

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Progress (80%)

Item 8/10

Time Left: 13:23

What is the output of the following program?

```
#include <iostream>
using namespace std;
class A {
public:
    static int a;
    A() { a = 1; a++; }
    A(A &aa) { a++; }
};
int main(void) {
    A a,b(a),c(b);
    cout << A.a << endl;
    return 0;
}
```

☒ the program will cause a compilation error

☐ 5

☐ 1

☐ 3

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The static variable "a" has not been initialized.

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Progress (90%)

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Item 9/10

Time Left: 13:11

What is the output of the following program?

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

☐ 5

☐ 1

☐ the program will cause a compilation error

☒ 3

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Progress (100%)

☰

Item 10/10

Time Left: 12:56

What is the output of the following program?

```
#include <iostream>
using namespace std;
class A {
public:
    int a;
    A() { a = 0; }
    A(int b) { a = b + 1; }
};
class B {
public:
    A a;
    B() : a(0) { }
};

int main(void) {
    B *b = new B();
    cout << b->a.a << endl;
    return 0;
}
```

☐ 3

☐ 5

☒ 1

☐ the program will cause a compilation error

← Prev

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