

Course: CPA - Programming Ess...

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Final Test

● Online

Progress (2%)

☰

Item 1/50

Time Left: 64:39

What is the output of the following snippet?

```
#include <iostream>
#include <string>

using namespace std;

int main()
{
    string s1 = "top";
    string s2;
    s2.append(s1).append("down");
    cout << s2;
    return 0;
}
```

☐ down

☐ downtop

☒ topdown

☐ top

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Progress (4%)

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Item 2/50

Time Left: 63:57

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int main()
{
    int i = 2;
    float f = 1.4;
    char c = 'a';
    bool b = true;
    c += i + f + b;
    cout << c;
    return 0;
}
```

☐ c

☒ e

☐ d

☐ f

← Prev

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Progress (6%)

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Item 3/50

Time Left: 62:47

Which code, inserted into the `main` function, generates the output `12` ?

```
#include <iostream>
#include <string>
using namespace std;
string fun(string s1, string s2)
{
    return s1 + s2;
}
int main()
{
    string s="1", *t = &s;
    //insert code here
    return 0;
}
```

☐ `fun(*t, s);`

☐ `fun("^1", *t);`

☒ `fun(*t, "2");`

☐ `fun("^1+2");`

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Progress (8%)

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Item 4/50

Time Left: 61:27

What is the output of the following snippet?

```
#include <iostream>
#include <string>
using namespace std;
class cmplx{
    double re, im;
public:
    cmplx() : re(1),im(1) {}
    cmplx(double r, double i) : re(r),im(i) {}
    cmplx operator+(cmplx &);
    void out() { cout << "(" << re << "," << im << ")"; }
};

cmplx cmplx::operator+ (cmplx &a){
    cmplx c(this->re + a.re, this->im + a.im);
    return c;
}

int main(){
    |   cmplx x(1,2),y,z;
    |   z = x + y;
    |   z.out();
    |   return 0;
}
```

☐ (3, 2)

☒ (2, 3)

☐ (3, 3)

☐ (2, 2)

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Progress (10%)

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Item 5/50

Time Left: 59:38

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int main()
{
    int x = -2, y;
    float f = 2.5, g;
    g = x;
    y = f;
    cout << (int)g / y;
    return 0;
}
```

☐ -0.8

☒ -1

☐ 0.8

☐ 1

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Progress (12%)

Item 6/50

Time Left: 57:01

What is the output of the following snippet?

```
#include <iostream>
#include <string>
using namespace std;
class Uno {
|   int val;
public: Uno(int x) { val = x; }
|   int out() { return val; }
|   void operator++(int var) {
|       |   val += val;
|   }
};
ostream &operator<<(ostream &o, Uno u)
{
|   return o << u.out();
}

int main()
{
|   Uno i(2);
|   i++;
|   cout << i;
|   return 0;
}
```

☐ 1

☒ 4

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Progress (14%)

Item 7/50

Time Left: 56:50

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int main()
{
    int i = 10;
    float f = 2.5;
    cout << float(i) / int(f);
    return 0;
}
```

☒ 5

☐ 0.5

☐ 1

☐ 4

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Progress (16%)

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Item 8/50

Time Left: 56:23

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
namespace OuterSpace
{
    int x = 1;
    int y = 2;
}
namespace InnerSpace
{
    float x = 3.0;
    float y = 4.0;
}
int main () {
    { using namespace InnerSpace;
      cout << x << " ";
    }{
      using namespace OuterSpace; using InnerSpace::y;
      cout << y;
    }
    return 0;
}
```

☐ Compilation error

☒ 3 4

☐ 3 1

☐ 3 2

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Progress (18%)

Item 9/50

Time Left: 56:12

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
char max(char x, char y) {
    if(x > y)
        return y;
    else
        return x;
}

int main()
{
    char chr = max('a', 'z');
    cout << chr;
    return 0;
}
```

☐ az

☒ a

☐ Compilation error

☐ z

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Progress (20%)

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Item 10/50

Time Left: 56:01

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int main()
{
    const char c = '!';
    const char *p;
    p = &c;
    *p = '?';
    cout << *p;
    return 0;
}
```

☐ ?

☐ !

☒ Compilation fails

☐ Prints address of `c`

← Prev

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● Online

Progress (22%)

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Item 11/50

Time Left: 55:50

What is the output of the following snippet?

```
#include <iostream>
#include <string>
using namespace std;
class Uno {
public: Uno() { cout << "X"; }
};

Uno foo(Uno d)
{
    |   Uno e = d;
    |   return e;
}

int main()
{
    |   Uno u;
    |   foo(u);
    |   return 0;
}
```

☐ XXX

☐ XX

☒ X

☐ XXXX

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Progress (24%)

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Item 12/50

Time Left: 55:38

What is the output of the following snippet?

```
#include <iostream>
#include <string>
using namespace std;
class Uno {
public: int Int;
};
class Due : public Uno {
public: Due() { Int = 2;}
       Due(int x) { Int = x == 0 ? 2 : x - 2; }
};
int main () {
    Due d,d2(0);
    cout << d.Int - d2.Int;
    return 0;
}
```

☐ 3

☐ 0

☐ 2

☐ 1

← Prev

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Progress (26%)

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Item 13/50

Time Left: 55:16

What is the output of the following snippet?

```
#include <iostream>
#include <string>
using namespace std;
class Uno {
public: ~Uno() { cout << "X"; }
};

void foo(Uno *d)
{
    |   Uno e;
    |   *d = e;
}

int main()
{
    |   Uno *u = new Uno;
    |   foo(u);
    |   delete u;
    |   return 0;
}
```

☐ X

☐ XXXX

☐ XXX

☒ XX

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Progress (28%)

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Item 14/50

Time Left: 55:06

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int doit(int x) {
    return x << 1;
}
int main(){
    int i;
    i = doit(1) || doit(0);
    cout << i;
    return 0;
}
```

☐ 0

☐ true

☐ false

☒ 1

← Prev

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Final Test

● Online

Progress (30%)

☰

Item 15/50

Time Left: 54:54

What is the output of the following snippet?

```
#include <iostream>
#include <string>
using namespace std;
int boo(int v)
{
    |   v++;
    |   return ++v;
}
int main()
{
    |   float x = 3;
    |   x = boo(x);
    |   cout << x;
    |   return 0;
}
```

☒ 5

☐ -1

☐ 1

☐ 3

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Progress (32%)

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Item 16/50

Time Left: 54:43

What is the output of the following snippet?

```
#include <iostream>
#include <string>
using namespace std;
struct S
{
    char *p;
};
class C
{
    S s;
public:
    C() { s.p = new char; *s.p = 'A'; }
    void p() { cout << ++(*s.p); }
};
int main()
{
    C *c = new C();
    c->p();
    return 0;
}
```

☐ B

☐ It prints garbage value

☐ Compilation error

☐ A

← Prev

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● Online

Progress (34%)

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Item 17/50

Time Left: 54:29

Which code, inserted into class `C`, generates the output `by`? Choose all correct answers.

```
#include <iostream>
#include <string>
using namespace std;
class Uno {
protected: char y;
public:   char z;
};
// insert code here
{
public:
void set() {
|   y = 'a'; z = 'z';
}
void out() { cout << ++y << --z; }
};

int main () {
|   Due b;
|   b.set();
|   b.out();
|   return 0;
}
```

☐ `class Due : public Uno`

☐ `class Due : protected Uno`

☐ `class Due : private Uno`

☐ `class Due`

← Prev

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● Online

Progress (36%)

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Item 18/50

Time Left: 54:17

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
class A
{
public: void out(){ cout << "A"; }
};
class B : public A
{
public: void out(){ cout << "B"; }
};
int main()
{
|   A *a;
|   a = new A();
|   a -> out();
|   a = new B();
|   a -> out();
|   return 0;
}
```

☐ AB

☐ BA

☐ BB

☒ AA

← Prev

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Online

Progress (38%)

Item 19/50

Time Left: 54:05

What is the output of the following snippet?

```
#include <iostream>
#include <string>
using namespace std;
class One {
public: float f;
    One(float f) { this->f = f; }
};
class Two {
public: float f;
    Two (One o) { this->f = o.f; }
    void foo() { cout << (int)f; }
};
int main()
{
    One o1(3.14);
    Two o2 = o1;
    o2.foo();
}
```

☐ 0

☒ 3

☐ Compilation fails

☐ 3.14

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● Online

Progress (100%)

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Item 20/50

Time Left: 31:00

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
class Sup {
public: virtual void out() { cout << "p"; }
};
class Sub : public Sup {
public: virtual void out() { cout << "b"; }
};
int main()
{
    Sub sub;
    Sup *sup;
    sup = &sub;
    sup->out();
    sub.out();
    return 0;
}
```

☐ pb

☐ bp

☒ bb

☐ pp

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Progress (42%)

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Item 21/50

Time Left: 53:22

Variable `z` in class `C3`, will be...

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

class C1
{
public:   int p;
private: int q;
protected int r;
};

class C2 : private C1 {};

class C3 : public C2 {};
```

☐ private

☐ protected

☐ None of these

☐ public

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Progress (44%)

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Item 22/50

Time Left: 53:04

How many times will the program print HI! ?

```
#include <iostream>
using namespace std;
int x = 5;
int main()
{
    cout << "HI!";
    if(x-- > 0)
    {
        main();
    }
    return 0;
}
```

☐ Six

☐ Five

☐ Two

☐ One

← Prev

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Progress (46%)

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Item 23/50

Time Left: 52:51

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
struct S {
    int a;
    char b;
    struct {
        | | float a;
        | | int b;
    } c;
};
int main (int argc, const char *argv[])
{
    S s = { 1, 2, 3, 4 };
    cout << s.c.a << s.c.b;
}
```

☒ 34

☐ 12

☐ 23

☐ 14

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Progress (48%)

Item 24/50

Time Left: 52:40

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
#define CALL(param) { if(param) cout << param++; }
int main()
{
    int i = 1;
    CALL(i);
    cout << i;
    return 0;
}
```

☐ 2

☐ 1

☐ 11

☒ 12

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Progress (50%)

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Item 25/50

Time Left: 52:27

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int main()
{
    |   int cnt = 10;
    |   do {
    |       |   cnt--;
    |       |   if (cnt % 3 == 2)
    |       |       |   break;
    |       |       |   cout << cnt;
    |       |   }
    |   while(cnt);
    |   return 0;
}
```

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Progress (52%)

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Item 26/50

Time Left: 52:15

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int main(){
    int a = 0;
    if (++a == 1) {
        cout << (a >> 1);
    } else {
        cout << (a);
    }
    return 0;
}
```

☐ None of these

☐ 1

☐ 2

☒ 0

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Progress (54%)

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Item 27/50

Time Left: 52:04

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
class X1 {
public: virtual void foo() = 0;
};
class X2 : public X1 {
public: virtual void foo() { cout << "X2"; }
};
class X3 : public X1 {
public: virtual void foo() { cout << "X3"; }
};
int main()
{
    X1 *a = new X2(); *b = new X3();
    b->foo();
    a->foo();
    return 0;
}
```

☐ X2X3

☐ X3X3

☐ X2X2

☒ X3X2

← Prev

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Final Test

● Online

Progress (56%)

☰

Item 28/50

Time Left: 51:44

What is the output of the following snippet?

```
#include <iostream>
#include <string>
using namespace std;
int main()
{
    |   bool t[] = {false, true, false & true};
    |   string u[2] = {"false", "true"};
    |   bool *p;
    |   p = t + 2;
    |   cout << u[*p];
    |   return 0;
}
```

☐ 1

☐ 0

☐ true

☒ false

← Prev

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Progress (58%)

Item 29/50

Time Left: 51:31

Variable `y` in class `Y`, will be...

```
class X {  
    private:    int x;  
    protected: int y;  
    public:    int z;  
};  
class Y : protected X {  
};
```

☐ private

☐ none of these

☒ protected

☐ public

← Prev

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● Online

Progress (60%)

☰

Item 30/50

Time Left: 51:20

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
float doit(int a, int b)
{
    |   return a * b;
}
float doit(float a, float b)
{
    |   return a + b;
}
int main()
{
    |   cout << doit(doit(1,2),doit(3.f,4.f));
    |   return 0;
}
```

☐ Compilation error

☐ 21

☐ 14

☒ 9

← Prev

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● Online

Progress (62%)

☰

Item 31/50

Time Left: 51:05

What happens if we use the operator new and the memory cannot be allocated?

```
#include <iostream>
#include <exception>
using namespace std;
int main () {
    long i = 2000000000;
    try
    { char *text = new char[i]; }
    catch (bad_alloc& e)
    { cout << "1"; }
    catch (exception& e)
    { cout << "2"; }
    catch (...)
    { cout << "3"; }
    return 0;
}
```

☒ It prints 1

☐ It prints 3

☐ It prints 2

☐ None of these

← Prev

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● Online

Progress (64%)

☰

Item 32/50

Time Left: 50:53

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int main (int argc, const char *argv[])
{
    float B = 32;
    { char B = '1'; cout << B; }
    { int B = 2; cout << B; }
    cout << B;
    return 0;
}
```

☐ 3212

☐ 3122

☐ 1.322

☐ None of these

← Prev

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● Online

Progress (66%)

☰

Item 33/50

Time Left: 50:41

What is the output of the following snippet?

```
#include <iostream>
#include <cstdlib>
using namespace std;
int calculate(int &val, int arg)
{
    |   val *= arg;
    |   return arg;
}

int main()
{
    |   int i = 1;
    |   int j = calculate(i,2);
    |   cout << i << j;
    |   return 0;
}
```

☐ 11

☐ 21

☐ 12

☒ 22

← Prev

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● Online

Progress (68%)

☰

Item 34/50

Time Left: 50:22

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
class cmplx{
    double re,im;
public:
    cmplx() : re(0),im(0) {}
    cmplx(double x) { re = im = x; }
    cmplx(double x,double y) { re = x; im = y; }
    void out() { cout << "(" << re << "," << im << ")"; }
};

int main(){
    cmplx c(1,2), cc(c);
    cc.out();
    return 0;
}
```

☐ (2, 1)

☐ (2, 2)

☐ (1, 1)

☒ (1, 2)

← Prev

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● Online

Progress (70%)

☰

Item 35/50

Time Left: 50:10

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int main()
{
    |   char *abc;
    |
    |   abc = new char[26];
    |   for(int i = 0; i < 26; i++)
    |   |   abc[i] = 'a' + i;
    |   cout << *(abc + 2);
    |   return 0;
}
```

☐ b

☐ d

☒ c

☐ a

← Prev

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Progress (72%)

☰

Item 36/50

Time Left: 49:58

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int k = -1;
class Class
{
public: char *adr;
    Class() { adr = new char[k]; }
    ~Class() { delete [] adr; }
};

int fun(void)
{
    Class object;
    return 0.5f;
}

int main()
{
    fun();
    return 0;
}
```

☐ 0

☐ 0.5

☒ Runtime error

☐ 1

← Prev

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Final Test

● Online

Progress (76%)

☰

Item 38/50

Time Left: 49:36

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int main()
{
    |   int i = 0;
    |   for( i < 5; i++);
    |   cout << i;
    |   return 0;
}
```

☐ 4

☐ 012345

☒ 5

☐ 01234

← Prev

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Final Test

Online

Progress (78%)

Item 39/50

Time Left: 49:23

What is the output of the following snippet?

```
#include <iostream>
#include <string>
using namespace std;
const int size = 3;
class Uno {
public: int n;
    Uno() { n = 1; }
    Uno(int v) { n = v;}
};
class Due : public Uno {
public:
    int *arr;
    Due() : Uno() {
        arr = new int[n];
    }
    Due(int a) : Uno(a) {
        arr = new int[n];
    }
    ~Due() { delete arr; }
};
int main () {
    Due d(2);
    Due e;
    cout << d.n + e.n;
    return 0;
}
```

☐ 2

☐ 4

☐ 1

☒ 3

← Prev

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● Online

Progress (80%)

☰

Item 40/50

Time Left: 49:05

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int main()
{
    const PI = 3.14;
    const PI2 = PI * PI;
    cout << PI2;
    return 0;
}
```

☐ 3

☐ 3.14

☐ Compilation fails

☐ 9.8596

← Prev

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Progress (84%)

Item 42/50

Time Left: 48:41

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int doit(int i, int j = 0)
{
    |   return (i * j);
}
int main ()
{
    |   cout << doit(doit(1,2));
    |   return 0;
}
```

☐ 112

☐ 12

☐ 1

☐ 0

← Prev

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Final Test

● Online

Progress (86%)

☰

Item 43/50

Time Left: 48:28

Which code, inserted into the function `main`, generates the output `03` ?

```
#include <iostream>
using namespace std;
class Uno
{ public: void foo(){ cout << "0";}
  | | void bar(){ cout << "1";}
};
class Due : public Uno
{ public: void foo(){ cout << "2";}
  | | void bar(){ cout << "3";}
};
int main()
{
  | Due d;
  | // insert code here
  | d.bar();
}
```

☐ `d->Uno::foo();`

☒ `d.Uno::foo();`

☐ `d->Due::foo();`

☐ `d.Due::foo();`

← Prev

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Final Test

● Online

Progress (88%)

☰

Item 44/50

Time Left: 48:09

What is the output of the following snippet?

```
#include <iostream>
#include <string>
using namespace std;
struct Who
{
    |   string nick;
};

class She
{
    |   Who *who;
public:
    |   She() {
    |       |   who = new Who;
    |       |   who -> nick = "Jane";
    |       |   }
    |   string out () {
    |       |   return who -> nick;
    |       |   }
};

int main()
{
    |   She they[2];
    |   for(int i = 0; i < 2; i++)
    |       |   cout << they[i].out();
    |       |   return 0;
}
```

☐ It prints nothing

☐ Jane

☒ JaneJane

☐ Runtime error

← Prev

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Final Test

● Online

Progress (90%)

☰

Item 45/50

Time Left: 47:51

What is the output of the program if the value of 1 is supplied as input?

```
#include <iostream>
using namespace std;
class Uno {
public: char Char;
};
int main () {
    int switch;
    Uno u;
    u.Char = '5';
    cin >> switch;
    try
    {
        switch (switch)
        {
            case 3: throw 1;
            case 2: throw 3.f;
            case 1: throw u;
        }
    }
    catch (int e)
    { cout << e; }
    catch (Uno e)
    { cout << e.Char; }
    catch (...)
    { cout << "?"; }
    return 0;
}
```

☐ Compilation error

☒ 5

☐ 1

☐ 3

← Prev

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● Online

Progress (92%)

☰

Item 46/50

Time Left: 47:39

What is the output of the following snippet?

```
#include <iostream>
#include <string>
using namespace std;
class Class1 {
|   char a;
protected:
|   char b;
public:
|   char c;
|   Class1() { a='a'; b='b'; c='c'; }
};

class Class2 : public Class1 {
|   char d;
public:
|   void set() {
|   |   c = 'e';
|   |   d = 'd';
|   }
};

int main () {
|   Class2 a;
|   a.set();
|   cout << a.c << a.d;
|   return 0;
}
```

☐ Compilation fails

☐ bd

☐ ed

☐ cd

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Final Test

● Online

Progress (94%)

☰

Item 47/50

Time Left: 47:22

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
bool compare(bool t, bool u)
{
    return t < u;
}
int main()
{
    cout << compare(true, false);
    return 0;
}
```

☐ true

☒ 0

☐ 1

☐ false

← Prev

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● Online

Progress (96%)

☰

Item 48/50

Time Left: 47:08

What is the output of the following snippet?

```
#include <iostream>
#include <string>
using namespace std;
class One
{
|   char value;
public:
|   One() { value = 'A'; }
|   One(char v) : value(v) {}
|   void set(char c) { this -> value = c; }
|   void set() { this -> value = 'd'; }
|   char get(){ return value; }
};

int main()
{
|   One o1,o2;
|   o2 = new One('b');
|   One *p;
|   p = &o1;
|   p -> set();
|   p = o2;
|   p -> set('c');
|   cout << o2->get() - o1.get();
|   return 0;
}
```

☐ 1

☐ 0

☒ -1

☐ Compilation fails

← Prev

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Final Test

● Online

Progress (98%)

☰

Item 49/50

Time Left: 46:57

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
class Alpha {
public: char out(){ return 'A'; }
};
class Beta : public Alpha {
public: virtual char out(){ return 'B'; }
};
class Gamma : public Beta {
public: char out(){ return 'G'; }
};
int main()
{
    Alpha *a = new Alpha();
    Alpha *b = new Beta();
    Alpha *c = new Gamma();
    cout << (a->out()) << (b->out()) << (c->out());
    return 0;
}
```

☐ ABG

☒ AAA

☐ GGG

☐ BBB

← Prev

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Final Test

● Online

Progress (100%)

☰

Item 50/50

Time Left: 46:45

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int doit(int a, float b)
{
    return a / b;
}

int main()
{
    float x = doit(1.5f, 2l);
    cout << x << " " << doit(1, 1.f);
    return 0;
}
```

☐ 1:1

☐ 1:0

☐ 0:0

☒ 0:1

← Prev

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