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Progress (3%)

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Item 1/30

Time Left: 44:55

What is the output of the following snippet?

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

int main() {
    int i = 1;
    if (--i == 1) {
        cout << i;
    } else {
        cout << --i;
    }
    return 0;
}
```

☐ 0

☐ 1

☐ --1

☒ -1

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Progress (7%)

Item 2/30

Time Left: 44:16

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
char fun(char *p)
{
    char c = *p;
    (*p)++;
    return c;
}
int main()
{
    |   char array[3]={'a', 'b', 'c'};
    |   fun(array + 1);
    |   cout << fun(array + 1);
    |   return 0;
}
```

☐ b

☐ c

☐ Compilation fails

☐ a

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Progress (10%)

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Item 3/30

Time Left: 43:11

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int main()
{
    |   char i = '1';
    |   switch(i)
    |   {
    |   |   case '1':
    |   |   |   cout<<"Hello ";
    |   |   |   case '2':
    |   |   |   cout<<"world "; break;
    |   |   |   case '3':
    |   |   |   cout<<"!";
    |   |   }
    |   }
    |   return 0;
}
```

☐ Hello world !

☐ Hello

☒ Hello world

☐ It prints nothing

← Prev

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Progress (17%)

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Item 4/30

Time Left: 41:57

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
class one {
public:
    void foo() { cout << 1; }
};
class two {
public:
    void foo() { cout << 2; }
};
int main() {
    two objects[2];
    two *object = objects;
    for(int i = 0; i < 2; i++)
        (object++)->foo();
    return 0;
}
```

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Progress (17%)

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Item 5/30

Time Left: 41:12

Variable `c` in class `B`, will be:

```
class A {
    int a;
protected:
    int b;
public:
    int c;
};

class B : public A {
    float f;
public:
    void foo() {
        cout << f << c;
    }
};
```

☐ private

☒ public

☐ protected

☐ none of these

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Progress (20%)

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Item 6/30

Time Left: 40:42

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
class One
{
public:
    void out(){ cout<<"One";}
};

int main()
{
    One arr[2];
    for(int i = 0; i < 1; i++)
        arr[i].out();
}
```

☐ Runtime error

☐ OneOne

☒ One

☐ Compilation error

← Prev

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Progress (23%)

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Item 7/30

Time Left: 36:27

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int var = -1;
int static Static(int i)
{
    static int y = 0;
    y += ++i;
    return y;
}
int main()
{
    var++;
    Static(var++);
    cout << var << Static(var);
}
```

☐ 7

☒ 13

☐ 11

☐ 9

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Progress (27%)

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Item 8/30

Time Left: 36:11

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
class Zero
{ public: void out(){ cout << 0; } };
class One : public Zero
{ public: void out(){ cout << 1; } };
class Two : public Zero
{ public: void out(){ cout << 2; } };

int main()
{
    Zero *obj;
    One obj1;
    obj = &obj1;
    obj->out();
    Two obj2;
    obj = &obj2;
    obj->out();
    return 0;
}
```

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Progress (30%)

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Item 9/30

Time Left: 35:17

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
void foo(int parameter)
{
    | | parameter *= 2;
}
int main()
{
    | int var = 2;
    | foo(var);
    | cout << var;
    | return 0;
}
```

☐ 2

☐ 8

☐ 1

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Progress (33%)

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Item 10/30

Time Left: 33:29

What is the output of the following snippet?

```
#include <iostream>
#include <string>
#include <exception>
using namespace std;
class a
{
public: virtual string whose()
| { return "mine"; }
};
class b
{
public: virtual string whose()
| { return "yours"; }
};
int main () {
a b;
try { throw b; }
catch (a& e) { cout << e.whose() << endl; }
return 0;
}
```

☐ mineyours

☐ yoursmine

☒ mine

☐ yours

← Prev

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Progress (37%)

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Item 11/30

Time Left: 32:37

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int main()
{
    char str[] = "Hello\0World\0";
    cout << str;
    return 0;
}
```

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☐ Compilation fails

☒ Hello

☐ Hello\0World

☐ HelloWorld

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Progress (40%)

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Item 12/30

Time Left: 31:43

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int sub(int x, int y)
{
    |   x -= y;
    |   return x;
}
int main()
{
    |   int a = 0, b = 1, c, d;
    |   c = sub(a,b);
    |   d = sub(c,b);
    |   cout << c << d;
    |   return 0;
}
```

☐ 1-2

☒ -1-2

☐ 12

☐ -12

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Progress (43%)

☰

Item 13/30

Time Left: 30:54

What is the output of the following snippet?

```
#include <iostream>
#include <sstream>
#include <string>
using namespace std;
int main(void)
{
    string s;
    s = "abod";
    s.append(s);
    s.resize(s.size() / 2);
    cout << s;
    return 0;
}
```

☐ It prints an empty string

☐ abcdabcd

☐ Compilation fails

☒ abcd

← Prev

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Progress (47%)

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Item 14/30

Time Left: 30:39

What is the output of the following snippet?

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

class SupClass {
public:
    void show(int par){ cout << par + 1;}
};

class SubClass : public SupClass {
public:
    void show(float par){ cout << par + 2;}
};

int main()
{
    SubClass o;
    o.show(2.0);
}
```

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Progress (50%)

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Item 15/30

Time Left: 30:01

Which of the following statements are correct about the following array?

```
char array[255];
```

☐ The expression `tab[255]` designates the last element in the array.

☐ The expression `tab[2]` designates the second element in the array.

☐ The array can store 255 elements.

☐ The array may be initialized at the time of declaration.

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Summary Test

● Online

Progress (53%)

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Item 16/30

Time Left: 29:22

What is the output of the following snippet?

```
#include <iostream>
#include <string>
using namespace std;
int f(int a)
{
    |   return a + a;
}
int main()
{
    |   int i = 0;
    |   for(int a = 0; a < 2; a++)
    |       i = f(i + 1);
    |   cout << i;
    |   return 0;
}
```

☐ 3

☐ 9

☐ 2

☒ 6

← Prev

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Progress (57%)

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Item 17/30

Time Left: 27:44

Which code, inserted into function `main`, generates the output `abba`? Choose all correct answers.

```
#include <iostream>
#include <string>
using namespace std;
string fun(string s)
{
    |   return s.substr(0,1)+s.substr(1,1)+s.substr(1,1)+s.substr(0,1);
}
int main()
{
    |   string *s = new string("ab");
    |   //insert code here
    |   return 0;
}
```

☒ `cout << fun("ab");`

☐ `cout << fun(s);`

☒ `cout << fun(*s);`

☒ `cout << fun("abba");`

← Prev

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Progress (60%)

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Item 18/30

Time Left: 27:17

Which code, inserted into the `B` class, generates the output `ef` ?

```
#include <iostream>
#include <string>
using namespace std;
class Alpha {
|   int p;
protected:
|   int q;
public:
|   int r;
|   Alpha():p(2),q(3),r(4) {}
};
class Beta : public Alpha {
|   string s;
public:
|   int y;
|   void assign() { y = 4; s = "f"; }
|   void out() {
|       // insert code here
|   }
};
int main () {
|   Beta b;
|   b.assign();
|   b.out();
|   return 0;
}
```

☒ `cout << char('a' + r) << s;`

☐ `cout << p << r;`

☐ `cout << r << s;`

☐ `cout << 'a' + r << s;`

← Prev

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Progress (63%)

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Item 19/30

Time Left: 25:18

What is the output of the following snippet?

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

☐ None of these

☐ 120

☒ 010

☐ 012

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Summary Test

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Progress (67%)

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Item 20/30

Time Left: 24:32

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int main()
{
    |   int a = -1, *p = &a;
    |   cout << (p == NULL) ? 1.1 : 2.2;
    |   return 0;
}
```

☐ 1.1

☐ None of these

☐ Compilation error

☒ 2.2

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Progress (70%)

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Item 21/30

Time Left: 23:51

What is the output of the following snippet?

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

using namespace std;

int main()
{
    string s1[]= {"A","Z"};
    string s="";

    for (int i=0; i<2; i++)
    |   cout << s.append(s1[i]).insert(1,"_");
    return( 0 );
}
```

☒ A \_ A \_ Z

☐ A \_ A \_ Z

☐ A \_ A

☐ A \_ Z

← Prev

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Progress (73%)

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Item 22/30

Time Left: 22:51

What is the output of this program if the string `bar` is supplied as input?

```
#include <iostream>
#include <string>
using namespace std;
int main()
{
    string s1 = "foo";
    string s2;
    getline(cin,s2);
    cout << s2.append(s1);
    return( 0 );
}
```

☐ `bar`

☐ `foobar`

☒ `barfoo`

☐ `foo`

← Prev

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Progress (77%)

Item 23/30

Time Left: 21:19

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
class C1 {
    friend class C2;
protected: int y;
public: int z;
private: int x;
public: C1() { x = y = z = 11; }
};

class C2 {
public: C1 a;
    C2 () { a.x = 22; };
    void foo() {
        cout << a.x << a.y << a.z;
    }
};

int main()
{
    C2 c;
    c.foo();
    return 0;
}
```

☒ 221111

☐ 112211

☐ 111122

☐ Compilation fails

← Prev

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Progress (80%)

Item 24/30

Time Left: 20:21

Which code, inserted into the `main` function, generate the output `a 2` ?

```
#include <iostream>
using namespace std;
namespace Space
{
    char a = 'a', b = 'b';
}
int a = 1, b = 2;
int main () {

    // insert code here
    cout << a << " " << b;
    return 0;
}
```

☐ `using namespace Space::a;`

☐ `using namespace Space;`

☒ `using Space::a;`

☐ None of these

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Progress (83%)

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Item 25/30

Time Left: 20:02

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int main(){
    int *Int = new int;
    *Int = 1 / 2 * 2 / 1. * 2. / 4 * 4;
    cout << *Int;
    return 0;
}
```

☐ 2.5

☒ 0

☐ 1

☐ 8

← Prev

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Progress (87%)

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Item 26/30

Time Left: 19:30

Which of the following is user defined data type? Choose all correct answers.

```
1: | enum Enum {One, Two, Three};
2: |
3: | int Int=2;
4: |
5: | char Char;
6: |
7: |
8: | struct Struct
9: | {
10: | | char Char;
11: | | int Int;
12: | };
13: |
```

☐ 3

☐ 1

☐ 4

☐ 2

← Prev

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Progress (90%)

Item 27/30

Time Left: 18:51

What is the output of the following snippet?

```
#include <iostream>
using namespace std;
int main (int argc, const char * argv[])
{
    |   double dbl = -5.55;
    |   cout << (int)dbl;
}
```

☐ -5.5

☐ -6

☐ 0

☒ -5

← Prev

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Progress (93%)

Item 28/30

Time Left: 18:04

What is the output of the following snippet?

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

#define A    0
#define B    A+1
#define C    1-B

int main() {
    cout << C;
    return 0;
}
```

☒ 0

☐ 3

☐ 1

☐ 2

← Prev

Next →

Macro directives simply perform a replacement

$$C = 1 - A + 1 = 1 - 0 + 1 = 2$$
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Summary Test

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Item 29/30

Time Left: 17:54

Which code, inserted into the `Class`, generates the output `abcd`?

```
#include <iostream>
using namespace std;
class Class {
public:
    static char value;
    Class() { value++; };
    ~Class () { value++; };
    //insert code here
    void print() { cout << value;}
};

char Class::value = 'a';

int main () {
    Class a,"b;
    b = new Class();
    b->set('a');
    b->print();
    delete b;
    a.print();
    a.set('c');
    a.print();
    a.set();
    a.print();
    return 0;
}
```

☐ `void set(char c) { value = c; }`

☐ `void set() { value = 'd'; }`

☒ `void set(char c = 'd') { value = c; }`

☐ `void set(char c) { cout << c; }`

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Item 30/30

Time Left: 17:37

Which code, inserted into the `One` class, generates the output `123` ?

```
#include <iostream>
using namespace std;
class One {
public:
    //insert code here
};
class Two : public One {
public:
    void foo(){ cout << 2; }
};
class Three : public Two {
public:
    void foo(){ cout << 3; }
};
int main()
{
    One o1;
    Two o2;
    Three o3;
    One *o = &o1;
    o->foo();
    o = &o2; o->foo();
    o = &o3; o->foo();
}
```

☐ `static void foo(){ cout << 1; }`

☐ None of these

☒ `virtual void foo(){ cout << 1; }`

☐ `void foo(){ cout << 1; }`

← Prev

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