

题目集

题目列表

提交列表

排名

OOP期末复习试题

110 分

I. 判断题

共 10 小题，共计 10 分

II. 单选题

共 15 小题，共计 30 分

III. 填空题

共 10 小题，共计 32 分

IV. 程序填空题

共 4 小题，共计 38 分

剩余时间: 19:14:41

判断题

单选题

填空题

程序填空题

1-1 Order of initialization in the initial list is the order of their declaration in the list. (1分)

☐ T ☒ F

作者: 翁恺
单位: 浙江大学

1-2 An abstract class is a class with at least one pure virtual function. (1分)

☒ T ☐ F

作者: 翁恺
单位: 浙江大学

1-3 The operator `::` can not be overloaded. (1分)

☒ T ☐ F

作者: 翁恺
单位: 浙江大学

1-4 Dynamic binding is used as default binding method in C++. (1分)

☐ T ☒ F

作者: 翁恺
单位: 浙江大学

1-5 One class can have more than one super classes. (1分)

☒ T ☐ F

作者: 翁恺
单位: 浙江大学

1-6 The index of an array of pointers to objects starts from 1. (1分)

☐ T ☒ F

作者: 翁恺
单位: 浙江大学

1-7 In C++, inheritance allows a derived class to directly access all of the functions and data of its base class. (1分)

☐ T ☒ F

作者: 翁恺
单位: 浙江大学

1-8 Destructors can not be overloaded. (1分)

☒ T ☐ F

作者: 翁恺
单位: 浙江大学

1-9 Every C++ compiler guarantees that `sizeof(int)` is less than `sizeof(long)`. (1分)

☐ T ☒ F

作者: 翁恺
单位: 浙江大学

1-10 A program is a bunch of objects telling each other how to do by sending messages. (1分)

☐ T ☒ F

作者: 翁恺
单位: 浙江大学

保存

判断题

1	2	3	4	5
6	7	8	9	10

单选题

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15

填空题

1	2	3	4	5
6	7	8	9	10

程序填空题

1	2	3	4
---	---	---	---

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IV. 程序填空题

共 4 小题，共计 38 分

剩余时间: 19:14:30

判断题

单选题

填空题

程序填空题

2-1 Who can access a private member of a class? (2分)

- ☐ A. Only member functions of that class.
- ☒ B. Only member functions of that class and friend functions or member functions of friend classes
- ☐ C. Only member functions of that class and derived classes
- ☐ D. None of the others

作者: 翁恺
单位: 浙江大学

判断题

1	2	3	4	5
6	7	8	9	10

单选题

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15

填空题

1	2	3	4	5
6	7	8	9	10

程序填空题

1	2	3	4
---	---	---	---

2-2 Resolver `::` is used to: (2分)

- ☐ A. Define a member function outside class declaration
- ☐ B. Access a member of a namespace
- ☐ C. Access a static member of a class
- ☒ D. All of the others

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单位: 浙江大学

2-3 Given:

```
class ResId {
public:
    ResId(int Id);
};
```

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单位: 浙江大学

The expression `ResId res = 5` means: (2分)

- ☐ A. A temporary object of class ResId will be created by 5
- ☒ B. An object of class ResId will be created by 5
- ☐ C. An object of class ResId will be created by a temporary object
- ☐ D. The object res will be assigned with the temporary object that was created by 5

2-4 Given:

```
void f(int i) { cout << "Func1" << endl; }
template<class T>
void f(T t) { cout << "Func2" << endl; }
main() {
    f(2);
}
```

作者: 翁恺
单位: 浙江大学

The result is :(2分)

- ☒ A. Func1
- ☐ B. Func2
- ☐ C. *nothing*
- ☐ D. undetermined

2-5 Given:

```
class A {
    A() {};
    virtual f() {};
    int i;
};
```

作者: 翁恺
单位: 浙江大学

which statement is NOT true: (2分)

- ☐ A. i is private

- ☒ B. f() is an inline function
- ☐ C. i is a member of class A
- ☒ D. sizeof(A) == sizeof(int)

类内定义的函数都是内联函数

2-6 Given:

```
class A {
    A() {}
    virtual f() = 0;
    int i;
};
```

不能定义抽象类的对象

作者: 翁恺

单位: 浙江大学

which statement below is **NOT** true: (2分)

- ☐ A. i is private
- ☒ B. Objects of class A can not be created
- ☐ C. i is a member of class A
- ☒ D. sizeof(A) == sizeof(int)

2-7 Given:

```
class X {
    int i;
    virtual void f() {};
};
```

作者: 翁恺

单位: 浙江大学

If sizeof(int *) == sizeof(int) == 4, then sizeof(X) == ? (2分)

- ☐ A. 4
- ☐ B. 6
- ☒ C. 8
- ☐ D. Undetermined

类中的非静态成员变量的大小。
虚函数使编译器为类添加一个额外的指针指向虚函数表

2-8 Which one below is copy constructor of class X?(2分)

- ☐ A. X()
- ☒ B. X(const X& x)
- ☐ C. X(const X& x, int i)
- ☐ D. X(const X* x)

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单位: 浙江大学

2-9 Given:

```
template < class T >
void swap( T& x, T& y ) {
    T temp = x;
    x = y;
    y = temp;
}
int i, j;
float f, m;
```

作者: 翁恺

单位: 浙江大学

Which statement is incorrect? (2分)

- ☐ A. swap(i,j);
- ☐ B. swap(j,i);
- ☐ C. swap(f,m)
- ☒ D. swap(i,f);

2-10 For the code below:

```
class A {
    static int i;
    //...
};
```

作者: 翁恺

单位: 浙江大学

Which statement is NOT true?(2分)

- ☒ A. All objects of class A reserve a space for i
- ☐ B. All objects of class A share the space of i
- ☐ C. i is a member variable of class A
- ☒ D. i is allocated in global data space

2-11 Which one is the characteristic of abstract class? (2分)

- ☐ A. May have virtual functions
- ☐ B. May have constructors overloaded
- ☐ C. May have friend function
- ☒ D. Can not make instance of this class

作者: 翁恺

单位: 浙江大学

2-12 In C++ language , function prototype doesn' t identify (2分)

作者: 翁恺

单位: 浙江大学

题目集

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- ☐ A. The return type of the function.
- ☐ B. The number of arguments of the function.
- ☒ C. The functionality of the function
- ☐ D. The type of arguments of the function.

2-13 In a C++ program, objects communicate each other by (2分)

- ☐ A. inheritance
- ☐ B. encapsulation
- ☒ C. calling member functions
- ☐ D. function overloading

作者: 翁恺
单位: 浙江大学

2-14 For an arbitrary class, the number of destructors can't be greater than (2分)

- ☐ A. 0
- ☐ B. 2
- ☒ C. 1
- ☐ D. 3

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单位: 浙江大学

2-15 Suppose a class is defined without any keywords such as public, private and protected, all members default to (2分)

- ☐ A. public
- ☐ B. protected
- ☒ C. private
- ☐ D. static

作者: 翁恺
单位: 浙江大学

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共 4 小题，共计 38 分

剩余时间: 19:14:18

判断题

单选题

填空题

程序填空题

4-1 write the output of the code below.

作者: hulanqing
单位: 浙江大学

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

class INCREMENT
{
public:
    INCREMENT( int v = 0, int i = 1 );
    void addIncrement()
    {
        v += increment;
    }
    void print() const;
    int get() const
    {
        return v;
    }
private:
    int v;
    const int increment;
};

INCREMENT::INCREMENT( int v, int i ) : v( v ),
increment( i )
{
}

void INCREMENT::print() const
{
    cout << v << endl;
}

int main()
{
    INCREMENT value( 1, 2);
    value.print();

    for ( int j = 1; j <= 2; j++ )
    {
        value.addIncrement();
        value.print();
    }
    return 0;
}
```

One for each line:

line 1: (1分) line 2:

3 (1分)

line 3: (1分)

4-2 write the output of the code below.

作者: hulanqing
单位: 浙江大学

判断题

1	2	3	4	5
6	7	8	9	10

单选题

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填空题

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程序填空题

1	2	3	4
---	---	---	---

题目集

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```
#include<iostream>
using namespace std;
class TEST
{
    int num;
public:
    TEST( int num=0);
    void increment( ) ;
    ~TEST( );
};
TEST::TEST(int num) : num(num)
{
    cout << num << endl;
}
void TEST::increment()
{
    num++;
}
TEST::~~TEST( )
{
    cout << num << endl;
}
int main( )
{
    TEST array[2];
    array[0].increment();
    array[1].increment();
    return 0;
}
```

One for each line:

line 1: (1分)

line 2: (1分)

line 3: (1分)

line 4: (1分)

4-3 write the output of the code below.

```
#include<iostream>
using namespace std;
class Base{
protected:
    int x;
public:
    Base(int b=0): x(b) { }
    virtual void display() const {cout << x << endl;}
};
class Derived: public Base{
    int y;
public:
    Derived(int d=0): y(d) { }
    void display() {cout << x << ", " << y << endl;}
};
int main()
{
    Base b(1);
    Derived d(2);
    Base *p = &d;
    b.display();
    d.display();
    p->display();
    return 0;
}
```

作者: hulanqing
单位: 浙江大学

One for each line:

line 1: (1分)

line 2: (1分)

line 3: (1分)

4-4 write the output of the code below.

作者: hulanqing
单位: 浙江大学

题目集

题目列表

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

enum NOTE { middleC, Csharp, Cflat };
class Instrument {
public:
    virtual void play(NOTE) const = 0;
    virtual char* what() const = 0;
    virtual void adjust(int) = 0;
};

class Wind : public Instrument {
public:
    void play(NOTE) const {
        cout << 1 << endl;
    }
    char* what() const { return "Wind"; }
    void adjust(int) {}
};

class Percussion : public Instrument {
public:
    void play(NOTE) const {
        cout << 2 << endl;
    }
    char* what() const { return "Percussion"; }
    void adjust(int) {}
};

class Stringed : public Instrument {
public:
    void play(NOTE) const {
        cout << 3 << endl;
    }
    char* what() const { return "Stringed"; }
    void adjust(int) {}
};

class Brass : public Wind {
public:
    void play(NOTE) const {
        cout << 11 << endl;
    }
    char* what() const { return "Brass"; }
};

class Woodwind : public Wind {
public:
    void play(NOTE) const {
        cout << 12 << endl;
    }
    char* what() const { return "Woodwind"; }
};

void tune(Instrument& i) {
    i.play(middleC);
}

void f(Instrument& i) { i.adjust(1); }

int main() {
    Wind flute;
    Percussion drum;
    Stringed violin;
    Brass flugelhorn;
    Woodwind recorder;
    tune(flute);
    tune(drum);
    tune(violin);
    tune(flugelhorn);
    tune(recorder);
    f(flugelhorn);
    return 0;
}
```

One for each line:

line 1: (1分)line 2: (1分)line 3: (1分)

题目集

题目列表

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line 4: (1分)

line 5: (1分)

4-5 write the output of the code below.

```
#include<iostream>
using namespace std;
class A{
public:
    A& operator=(const A& r)
    {
        cout << 1 << endl;
        return *this;
    }
};
class B{
public:
    B& operator=(const B& r)
    {
        cout << 2 << endl;
        return *this;
    }
};
class C{
private:
    B b;
    A a;
    int c;
};

int main()
{
    C m,n;
    m = n;
    return 0;
}
```

作者: hulanqing
单位: 浙江大学

One for each line:

2 (1分)

1 (1分)

4-6 write the output of the code below.

```
#include <iostream>
using namespace std;
class MYCLASS{
public:
    MYCLASS(int x):val(x){}
    void print() const
    {
        cout << val << endl;
    }
    void print()
    {
        cout << val << endl;
    }
private:
    int val;
};

int main()
{
    MYCLASS ob1(1);
    const MYCLASS ob2(2);
    ob2.print();
    ob1.print();
    return 0;
}
```

作者: hulanqing
单位: 浙江大学

One for each line.

line 1: (1分)

line 2: (1分)

4-7 write the output of the code below.

作者: hulanqing
单位: 浙江大学

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

class counter{
private:
    int value;
public:
    counter():value(0) {}
    counter& operator++();
    int operator++(int);
    void reset()
    {
        value = 0;
    }
    operator int() const
    {
        return value;
    }
};

counter& counter::operator++()
{
    if (3 == value)
        value = 0;
    else
        value += 1;
    return *this;
}

int counter::operator++(int)
{
    int t = value;
    if (3 == value)
        value = 0;
    else
        value += 1;
    return t;
}

int main()
{
    counter a;
    while (++a)
        cout << "***\n";
    cout << a << endl;
    while (a++)
        cout << "***\n";
    cout << a << endl;
    return 0;
}
```

One for each line:

***	(1分)
***	(1分)
***	(1分)
0	(1分)
1	(1分)

4-8 write the output of the code below.

```
#include <iostream>
using namespace std;
int& f(int &i )
{
    i += 10;
    return i ;
}
int main()
{
    int k = 0;
    int& m = f(k);
    cout << k << "#";
    f(m)++;
    cout << k << endl;
    return 0;
}
```

10#21 (2分)

4-9 write the output of the code below.

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单位: 浙江大学

作者: hulanqing

题目集

题目列表

提交列表

排名

单位: 浙江大学

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

class Sample{
    friend long fun(Sample s);
public:
    Sample(long a)
    {
        x = a;
    }
private:
    long x;
};

long fun(Sample s)
{
    if (s.x < 2) return 1;
    return s.x * fun(Sample(s.x-1));
}

int main()
{
    int sum = 0;
    for(int i=0;i<6;i++)
    {
        sum += fun(Sample(i));
    }
    cout << sum;
    return 0;
}
```

154 (1分)

4-10 write the output of the code below.

1.the output at //1 is 1 (1分)

2.the output at //2 is 2 (1分)

3.the output at //3 is 7 (1分)

4.the output at //4 is 0 (1分)

5.the output at //5 is 0 (1分)

作者: hulanqing
单位: 浙江大学

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

class Testing
{
private:
    string words;
    int number ;
public:
    Testing(const string & s = "Testing")
    {
        words = s ;
        number = words.length();
        if (words.compare("Testing")==0)
            cout << 1;
        else if (words.compare("Heap1")==0)
            cout << 2;
        else
            cout << 3;
    }
    ~Testing()
    {
        cout << 0;
    }
    void show() const
    {
        cout << number;
    }
};

int main()
{
    Testing *pc1 , *pc2;
    pc1 = new Testing ; //1
    pc2 = new Testing("Heap1"); //2
    pc1->show(); //3
    delete pc1 ; //4
    delete pc2 ; //5
    return 0;
}
```

题目集

保存

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OOP期末复习试题

110 分

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剩余时间: 19:14:11

判断题 单选题 填空题 程序填空题

5-1 Run the following program, Enter: 1, the output is: 55 34 21 13 8 5 3 2 1 1

作者: hulanqing
单位: 浙江大学
时间限制: 400 ms
内存限制: 64 MB

判断题				
1	2	3	4	5
6	7	8	9	10
单选题				
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
填空题				
1	2	3	4	5
6	7	8	9	10
程序填空题				
1	2	3	4	

题目集

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

enum ERROR{UnderFlow,OverFlow};
template<typename T>
class StackTemplate {
    enum { ssize = 100 };
    T stack[ssize];
    int top;
public:
    StackTemplate() : top(0) {}
    void push(const T& i) {
        if (top >= ssize)
            throw OverFlow (1分);
        stack[top++] = i;
    }
    T pop() {
        if (top<=0 (1分))
            throw UnderFlow;
        return stack[--top] (1分);
    }
    int size() const
    { return top; }
};

int fibonacci(int n);

int main() {
    try (1分) {
        StackTemplate<int> (1分) is;
        for(int i = 0; i < 20; i++)
            is.push(fibonacci(i));
        for(int k = 0; k < 20; k++)
            cout << is.pop() << "\t";
    }
    catch( ERROR e ) {
        switch(e (1分))
        {
            case OverFlow:
                exit;
            case UnderFlow:
                exit;
        }
    }
    catch(...)
    {
        exit;
    }
    return 0;
}

int fibonacci(int n)
{
    const (1分) int sz = 100;
    int i;
    static int f[sz];
    if (n >= sz) throw OverFlow (1分);
    f[0] = f[1] = 1;
    for(i = 0; i < sz; i++)
        if(f[i] == 0) break;
    while(i <= n) {
        f[i] (1分) = f[i-1]
+ f[i-2];
        i++;
    }
    return f[n] (1分);
}
```

5-2 Run the following program, the output is: B::f()

作者: hulanqing

单位: 浙江大学

时间限制: 400 ms

内存限制: 64 MB

题目集

题目列表

提交列表

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```
#include <iostream>
using namespace std;
class A{
public:
    virtual (1分){ cout<<"A::f()\n"; }
};
class B:public A{
public:
    void f() {cout<<"B::f()\n"; }
};
int main()
{
    B b;
    A &p =b (1分);
    p.(1分)f();
    return 0;
}
```

5-3

```
#include <iostream>
using namespace std;
class IndexError{};
template <typename T> (2分)
class ARRAY
{
    size_t m_size;
    T *m_ptr;
public:
    ARRAY(size_t size) : m_size(size)
    {
        m_ptr = new T[size];
        memset(m_ptr, 0, size*sizeof(int));
    }
    ~ARRAY()
    {
        delete[] m_ptr;
    }
    T& at(int index);
};

template <typename T>
T& ARRAY<T> (2分)::at(int index)
{
    if(index<0||index>=m_size (2分))
    {
        throw (2分)
        IndexError();
    }
    return m_ptr[index];
}

int main()
{
    ARRAY<int> a(50);
    int i;
    cin >> i;
    try (2分)
    {
        for(int j=0;j<i;j++)
            a.at(i) = j;
    }
    catch(IndexError e)
    {
        return 0;
    }
    return 0;
}
```

作者: hulanqing

单位: 浙江大学

时间限制: 400 ms

内存限制: 64 MB

5-4 Run the following program, Enter: 1, the output is:
S1 == S2 HfLLO HfLLO

作者: hulanqing

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题目集

题目列表

提交列表

排名

```
#include <iostream>
using namespace std;
class ERROR{};
class STRING
{
    char *m_pStr;
    int m_len;
public:
    STRING(char *str=NULL){
        if (str != NULL) {
            m_len = strlen(str);
            m_pStr = (1
分);
            strcpy((1分));
        }
        else {
            m_len = 0;
            m_pStr = NULL;
        }
    }
    (1分) operator=(char
*str)
    {
        (1分) m_pStr ;
        m_len = strlen(str)+1;
        m_pStr = new char[m_len];
        strcpy((1分));
        return (1分);
    }

    bool operator==(STRING str)
    (1分)
    {
        return ((1分)(m_pStr,
str.m_pStr)== 0);
    }
    char operator [] (int i)
    (1分)
    {
        if (i<m_len && i>=0) return m_pStr[i];
        throw (1分);
    }
    char& operator[](int i) (1分)
    {
        if (i<m_len && i>=0) return m_pStr[i];
        ERROR e;
        (1分);
    }
    (1分) ostream&
operator<<(ostream& out ,STRING s);
};
ostream& operator<<(ostream& out ,STRING s)
{
    out << s.m_pStr;
    return out;
}

int main()
{
    STRING s1,s2("HELLO");
    int i;
    cin >> i;
    s1 = s2;
    if (s1 == s2) cout << "S1 == S2\n";
    s1[1] = s1[1] + 1;
    cout << s1 << endl;;

    (1分){
        if(s1[i]>='a' && s1[i]<='z') s1[i] = s1[i]
- 32;
        cout << s1 << endl;
    }
    (1分)( ERROR& e)
    {
        cout << "upperbound overflow";
    }
}
```

题目集

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```
return 0;
}
```

保存