



CODERS LODGE

OBJECT ORIENTED PROGRAMMING USING C++

OOPS CONCEPT(CL1.OOC++)

Kindly read the instructions carefully

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1. Which of the following explains Polymorphism?

- a. `int func(int, int);`
`float func1(float, float);`
- b. `int func(int);`
`int func(int);`
- c. `int func(float);`
`float func(int, int, char);`
- d. `int func();`
`int new_func();`

Answer: C

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2. Which of the following feature of OOPs is not used in the following C++ code?

```
class A
{
    int i;
    public:
    void print(){cout<<"hello"<<i;}
```

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```
}
```

```
class B: public A
```

```
{
```

```
    int j;
```

```
    public:
```

```
    void assign(int a){j = a;}
```

```
}
```

- a) Abstraction
- b) Encapsulation
- c) Inheritance
- d) Polymorphism

Answer: d

3. Predict the output of below C++ programs.

```
#include<iostream>
```

```
using namespace std;
```

```
class Base1 {
```

```
public:
```

```
    Base1()
```

```
    { cout << " Base1's constructor called" << endl; }
```

```
};
```

```
class Base2 {
```

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public:

Base2()

```
{ cout << "Base2's constructor called" << endl; }
```

```
};
```

```
class Derived: public Base1, public Base2 {
```

public:

Derived()

```
{ cout << "Derived's constructor called" << endl; }
```

```
};
```

```
int main()
```

```
{
```

```
Derived d;
```

```
return 0;
```

```
}
```

**Output: Base1's constructor called
Base2's constructor called
Derived's constructor called**

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4. Predict the output of below C++ programs.

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

class A {
public:
    A(int ii = 0) : i(ii) {}
    void show() { cout << "i = " << i << endl;}
private:
    int i;
};

class B {
public:
    B(int xx) : x(xx) {}
    operator A() const { return A(x); }
private:
    int x;
};

void g(A a)
{ a.show(); }

int main() {
    B b(10);
    g(b);
    g(20);
    getchar();
    return 0;
}
```

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Output: i = 10

i = 20

5. What will be the output of the following C++ code?

```
#include <iostream>
using namespace std;
class A{
public:
    A(){
        cout<<"Constructor called\n";
    }
    ~A(){
        cout<<"Destructor called\n";
    }
};

int main(int argc, char const *argv[])
{
    A *a = new A[5];
    delete a;
    return 0;
}
```

a) "Constructor called" five times and then "Destructor called" five times

b) "Constructor called" five times and then "Destructor called"

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once

c) Error

d) Segmentation fault

Answer: d

6. Predict the output of below C++ programs.

```
#include<iostream>

using namespace std;

class P {
public:
void print()
{ cout <<" Inside P::"; }
};
```

```
class Q : public P {
public:
void print()
{ cout <<" Inside Q"; }
};
```

```
class R: public Q {
};
```

```
int main(void)
```

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```
{  
    R r;  
    r.print();  
    return 0;  
}
```

Output: Inside Q

7. What will be the output of the following C++ code?

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

```
class A  
{  
    int a;  
    A() { a = 5;}  
};
```

```
int main()  
{  
    A *obj = new A;  
    cout << obj->a;  
}
```

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- a) 5
- b) Garbage value
- c) Compile-time error
- d) Run-time error

Answer: c

8. Predict the output of below C++ program.

```
#include<iostream>
#include<stdio.h>
using namespace std;
class Base
{
public:
Base()
{
    fun(); //note: fun() is virtual
}
virtual void fun()
{
    cout<<"\nBase Function";
}
};

class Derived: public Base
```

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```
{  
public:  
Derived(){}  
virtual void fun()  
{  
    cout<<"\nDerived Function";  
}  
};  
int main()  
{  
    Base* pBase = new Derived();  
    delete pBase;  
    return 0;  
}
```

Output: Base Function

9. Predict the output of below C++ program.

```
#include<iostream>  
using namespace std;  
  
int x = 10;  
void fun()  
{
```

```
    int x = 2;
```

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```
{  
    int x = 1;  
    cout << ::x << endl;  
}  
}
```

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

Output: 10

10. Predict the output of below C++ program.

```
#include<iostream>  
using namespace std;  
int &fun() {  
    static int a = 10;  
    return a;  
}
```

```
int main() {  
    int &y = fun();  
    y = y + 30;  
    cout<<fun();  
    return 0;  
}
```

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Output: 40

11. What will be the output of the following C++ code?

```
#include<iostream>

using namespace std;

class A
{
    ~A(){
        cout<<"Destructor called\n";
    }
};

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

- a) Destructor called
- b) Nothing will be printed
- c) Error
- d) Segmentation fault

Answer: c

12. What will be the output of the following C++ code?

```
#include <iostream>

using namespace std;
```

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```
class Test
{
    static int x;
public:
    Test() { x++; }
    static int getX() {return x;}
};
int Test::x = 0;
int main()
{
    cout << Test::getX() << " ";
    Test t[5];
    cout << Test::getX();
}
```

- a) 0 0
- b) 5 0
- c) 0 5
- d) 5 5

Answer: c

13. Predict the output of below C++ program.

```
#include<iostream>

using namespace std;
```

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```
class Test {  
    int value;  
  
public:  
    Test (int v = 0) {value = v;}  
    int getValue() { return value; }  
};  
  
int main() {  
    const Test t;  
    cout << t.getValue();  
    return 0;  
}
```

Output: Compiler Error

14. What will be the output of the following C++ code?

```
#include <iostream>  
using namespace std;  
int main()  
{  
    int x = -1;  
    unsigned int y = 2;  
  
    if(x > y)  
    {  
        cout << "x is greater";  
    }  
}
```

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```
    }  
    else  
    {  
        cout << "y is greater";  
    }  
}
```

- a) x is greater
- b) y is greater
- c) implementation defined
- d) arbitrary

Answer: a

15. Predict the output of following C++ program.

```
#include<iostream>  
using namespace std;  
class Test1  
{  
    int x;  
public:  
    void show() { }  
};  
class Test2  
{  
    int x;
```

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```
public:  
    virtual void show() { }  
};
```

```
int main(void)  
{  
    cout<<sizeof(Test1)<<endl;  
    cout<<sizeof(Test2)<<endl;  
    return 0;  
}
```

**Output: 4
8**

16. Predict the output of following C++ program.

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

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```
class Test  
{  
private:  
    static int count;  
public:  
    static Test& fun();  
};
```

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```
int Test::count = 0;
```

```
Test& Test::fun()
```

```
{
```

```
    Test::count++;
```

```
    cout<<Test::count<<" ";
```

```
    return *this;
```

```
}
```

```
int main()
```

```
{
```

```
    Test t;
```

```
    t.fun().fun().fun().fun();
```

```
    return 0;
```

```
}
```

Output: Compiler Error: 'this' is unavailable for static member functions

17. Predict the output of following C++ program.

```
#include<iostream>
```

```
#include<string.h>
```

```
using namespace std;
```

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```
class String
{
    char *p;
    int len;
public:
    String(const char *a);
};

String::String(const char *a)
{
    int length = strlen(a);
    p = new char[length + 1];
    strcpy(p, a);
    cout << "Constructor Called " << endl;
}

int main()
{
    String s1("Coders");
    const char *name = "codersLodge";
    s1 = name;
    return 0;
}
```

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Output: Constructor Called Constructor Called

18. What will be the output of the following C++ code?

```
#include <iostream>
using namespace std;
int main()
{
    int i;
    const char *arr[] = {"C", "C++", "Java", "VBA"};
    const char *(*ptr)[4] = &arr;
    cout << ++(*ptr)[2];
    return 0;
}
```

- a) ava
- b) java
- c) c++
- d) compile time error

Answer: a

19. Predict the output of following C++ program.

```
#include<iostream>
using namespace std;
class Test
{
```

private :

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```
int marks = 85;

public :

Test(int marks)
{
    cout<< this->marks;
    cout<<endl;
}

};

int main()
{
    Test t(95);
    return 0;
}
```

Output: 85

20. Predict the output of following C++ program.

```
#include<iostream>

using namespace std;
```

```
class A
{
```

```
    public :
```

```
        A()
```

```
        {
```

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```
func();  
}  
~A()  
{  
    func();  
}  
void func()  
{  
    cout<< 3;  
    cout<<endl;  
}  
void fun()  
{  
    func();  
}  
};  
class B : public A  
{  
    void func()  
    {  
        cout<< 2;  
        cout<<endl;  
    }  
}
```

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```
};  
int main()  
{  
    B b;  
    b.fun();  
    return 0;  
}
```

Output: 3
3
3

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