

Thank you. Your test submitted.

You have cleared this assessment.

Obtained Percentage

Obtained Marks

65 %

13 / 20

Best Attempt Score:65 % on 23-03-2025

What is the output for the following program?

```
int main(){  
    int a[5] = {5, 1, 15, 20, 25};  
    int i, j, m;  
    i = ++a[1];  
    j = a[1]++;  
    m = a[i++];  
    cout << i << " " << j << " " << m;  
}
```

☒ 3, 2, 15

☐ 2, 3, 20

☐ 2, 1, 15

☐ 1, 2, 20

Find the output for the below code snippet?

```
enum demo {  
    A = 10, B, C  
};  
int main() {  
    cout << A << B << C;  
    return 0;  
}
```

- ☒ 101112
- ☐ 101010
- ☐ 1098
- ☐ 10119

Consider the following recursive function fun(x, y). What is the value of fun(4, 3)

```
int fun(int x, int y) {  
    if (x == 0)  
        return y;  
    return fun(x - 1, x + y);  
}
```

☒ 13

☐ 12

☐ 9

☐ 10

Warning

This operation is disabled

OK

Predict the output of the following code:-

```
int main() {  
    unsigned int m = 32;  
    cout << (m >> 1) << " " << ~m;  
    return 0;  
}
```

- ☐ 16 5
- ☒ 64 -32
- ☐ 16 33
- ☐ 16 -33

Procedural programming is also referred to as ____.

- ☒ Imperative programming
- ☐ Declarative programming
- ☐ Routine programming
- ☐ Functional programming
- ☐ Object-oriented programming

What is the output for the below code:

```
class BaseA {
public:
    BaseA() {
        cout << " Base A's constructor called" << endl;
    }
};

class BaseB {
public:
    BaseB() {
        cout << "Base B's constructor called" << endl;
    }
};

class Derived : public BaseA, public BaseB {
public:
    Derived() {
        cout << "Derived's constructor called" << endl;
    }
};

int main() {
    Derived derived;
    return 0;
}
```

Warning

This operation is

- ☐ Compiler Dependent
- ☐ Base A's constructor called Base B's constructor called Derived's constructor called
- ☐ Base B's constructor called Base A's constructor called Derived's constructor called
- ☒ Compiler Error

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

```
class base {
public:
    void fun_1() { cout << "base-1"; }
    virtual void fun_2() { cout << "base-2"; }
    virtual void fun_3() { cout << "base-3"; }
    virtual void fun_4() { cout << "base-4"; }
};

class derived : public base {
public:
    void fun_1() { cout << "derived-1"; }
    void fun_2() { cout << "derived-2"; }
    void fun_4(int x) { cout << "derived-4"; }
};

int main() {
    base* p;
    derived obj1;
    p = &obj1;
    p->fun_1();
    p->fun_2();
    p->fun_3();
    p->fun_4();
}
```

- ☐ Compile Time Error
- ☐ base-1 derived-2 base-3 base-4
- ☒ base-1 derived-2 derived-3 derived-4
- ☐ base-1 derived-2 base-3 derived-4

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

```
template <typename T>
T max(T x, T y) {
    return (x > y)? x : y;
}

int main() {
    cout << max(3.5) << std::endl;
    cout << max(3.0,5.0) << std::endl;
    cout << max(3,5.0) << std::endl;
    return 0;
}
```

Warning

This operation is disallowed

- ☒ Compiler Error in all cout statements as data type mismatch
- ☐ 5 5.0 5.0
- ☐ Compiler Error in last cout statement as call to max is ambiguous
- ☐ None of the above

What will be the output for the below code snippet:

```
void square (int *x) {  
    *x = (*x + 1) * (*x);  
}
```

```
int main () {  
    int num = 10;  
    square(&num);  
    cout << num;  
    return 0;  
}
```

- ☐ 100
- ☐ Compile Time Error
- ☐ 144
- ☒ 110

Find the Output for the below code snippet:

```
int main() {  
    int i;  
    int arr[5] = {1};  
    for (i = 0; i < 5; i++)  
        cout << arr[i] << " ";  
    return 0;  
}
```

- ☐ 1 followed by four garbage values
- ☒ 1 0 0 0 0
- ☐ 1 1 1 1 1
- ☐ 0 0 0 0 0

Predict the output the of following program.

```
class B;

class A {
    int a;
public:
    A():a(0) { }
    void show(A& x, B& y);
};

class B {
private:
    int b;
public:
    B():b(0) { }
    friend void A::show(A& x, B& y);
};

void A::show(A& x, B& y) {
    x.a = 10;
    cout << "A::a=" << x.a << " B::b=" << y.b;
}

int main() {
    A a;
    B b;
    a.show(a,b);
    return 0;
}
```

- ☐ Compiler Error
- ☒ A::a=10 B::b=0
- ☐ A::a=0 B::b=0
- ☐ None of the above

What is the output of the following C++ code?

```
int fun(int x = 0, int y = 0, int z) {  
    return (x + y + z);  
}
```

```
int main() {  
    cout << fun(10);  
    return 0;  
}
```

☐ 10

☐ 0

☐ 20

☒ Compilation Error

What is the output for the below code snippet:

```
void show(int* arr) {  
    int n = sizeof(arr)/sizeof(arr[0]);  
    int i;  
    for (i = 0; i < n; i++)  
        cout<< arr[i]<< " ";  
}  
  
int main() {  
    int arr[] = {1, 2, 3, 4, 5, 6, 7, 8};  
    show(arr);  
    return 0;  
}
```

- ☐ 1 2 3 4 5 6 7 8
- ☐ Compilation error
- ☐ 1 2
- ☒ Runtime error

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

```
int main(int argc, char const *argv[]) {  
    char str[] = "Hola Infoscians";  
    cout<<str[0];  
    return 0;  
}
```

- ☐ H
- ☐ Hola
- ☒ Error
- ☐ 0

Choose the correct statement for the below program

```
int main() {  
    int *pInt;  
    int **ppInt1;  
    int **ppInt2;  
  
    pInt = (int*)malloc(sizeof(int));  
    ppInt1 = (int**)malloc(10*sizeof(int*));  
    ppInt2 = (int**)malloc(10*sizeof(int*));  
  
    free(pInt);  
    free(ppInt1);  
    free(*ppInt2);  
    return 0;  
}
```

Warning

This operation is disabled

Ok

- ☐ malloc() for ppInt1 and ppInt2 isn't correct. It'll give compile time error
- ☐ free(*ppInt2) is not correct. It'll give compile time error
- ☒ free(*ppInt2) is not correct. It'll give run time error
- ☐ No issue with any of the malloc() and free() i.e. no compile/run time error

Which of the following is true about the following program

```
class Test {
    public:
        int i;
        void get();
};

void Test::get() {
    std::cout << "Enter the value of i: ";
    std::cin >> i;
}

Test t; // Global object

int main() {
    Test t; // local object
    t.get();
    std::cout << "value of i in local t: "<<t.i<<'n';
    ::t.get();
    std::cout << "value of i in global t: "<<::t.i<<'n';
    return 0;
}
```

Warning

This operation i

- ☐ Compiler Error: Cannot have two objects with same class name
- ☐ Compiler Error in Line "::t.get();"
- ☒ Compiles and runs fine
- ☐ None of the above

What will be the output for the below code snippet?

```
int main() {  
    try {  
        throw 100;  
    }  
    catch (...) {  
        cout << "default exception";  
    }  
    catch (int param) {  
        cout << "int exception";  
    }  
    return 0;  
}
```

- ☒ Compile time error
- ☐ Run time error
- ☐ Default exception
- ☐ int exception

What is the output of this program?

```
int main() {  
    struct employee {  
        int empid;  
        char empname[25];  
    };  
    employee e;  
    e.empid = 1001;  
    strcpy(e.empname, "Peter");  
    cout << e.empid << endl;  
    cout << e.empname << endl;  
    return 0;  
}
```

- ☒ 1001 Peter
- ☐ Peter Peter
- ☐ Compile time error
- ☐ None of the above

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

```
class Base {
public:
    virtual void print() const = 0;
};
class DerivedOne : virtual public Base {
public:
    void print() const {
        cout << "1";
    }
};
class DerivedTwo : virtual public Base {
public:
    void print() const {
        cout << "2";
    }
};
class Multiple : public DerivedOne, DerivedTwo {
public:
    void print() const {
        DerivedTwo::print();
    }
};
int main() {
    Multiple both;
    DerivedOne one;
    DerivedTwo two;
    Base *array[ 3 ];
    array[ 0 ] = &both;
    array[ 1 ] = &one;
    array[ 2 ] = &two;
    for ( int i = 0; i < 3; i++ )
        array[ i ] -> print();
    return 0;
}
```

☐ 121

☐ 12

☒ 212

☐ 215

What is the output of the following code?

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

- ☐ Compiler Error
- ☐ 4 4 4 4
- ☐ 1 1 1 1
- ☒ 1 2 3 4