



**CS-304 Object Oriented Programming
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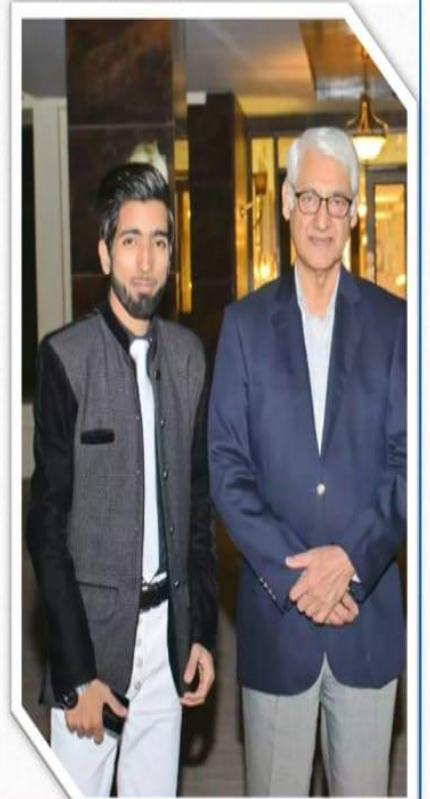
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Which of the following best describes relationship between Book and BookChapter classes?

- A. Association
- B. Inheritance
- C. Aggregation
- D. Composition**

The keyword "friend" should be placed in _____ :

- A. Main Function
- B. Function Definition
- C. Anywhere in program

D. Function Declaration **Google**

Which of the following stores the address of a variable?

- A. Pointer**
- B. Function
- C. Destructor
- D. Constructor

_____ is creating objects of one class inside another class.

- A. Association
- B. Inheritance
- C. Aggregation

D. Composition **Page 125**

Which of the following can be used as an alternative to static members?

- A. Local Variables
- B. Array of Objects
- C. Global Variables**
- D. Constant Variables

What is the general syntax of overloading Unary Operator as member function of the class?

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- A. TYPE & operator OP ();**
- B. TYPE & operator OP (int);
- C. TYPE & operator OP (TYPE &);
- D. TYPE & operator OP (TYPE &, TYPE &);

Which of the following operators operate on one operand?

- A. Unary Operators**
- B. Ternary Operator
- C. Binary Operators
- D. All of the given options

Composition is _____ and aggregation is _____ relationship.

- A. Weak, Weak
- B. Weak, Strong
- C. Strong, Weak**
- D. Strong, Strong

Which of the following function declaration is correct to overload the + operator as member function in Complex class?

- A. Complex +(const Complex & rhs);
- B. operator + Complex (const Complex & rhs);
- C. Complex operator +(const Complex & rhs);**
- D. Complex operator + ::(const Complex & rhs);

Insertion operator is _____ associative.

- A. Left to Left
- B. Right to Left
- C. Left to Right**
- D. Right to Right

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Which of the following statement is TRUE about a class's Static Member Function?

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- A. It can access non-static data members.
- B. It is used to access static data members only.**
- C. It can only be called by a particular object of class.
- D. It can access constant data members of the class.

Which of the following is the correct way of declaring a constant variable named RollNo?

- A. const RollNo;
- B. int const rollNo;
- C. int RollNo const;
- D. const int RollNo;**

Which of the following is defined as stream extraction operator in C++?

- A. *<
- B. <<
- C. *>
- D. >>**

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What will be the output of the following code?

```
#include<iostream>
using namespace std;
int main()
{
int const x = 10;cout << ++x;}

```

- A. 10**
- B. Run Time Error
- C. 11
- D. Compile time Error

In C++, the subscript operator [] must be overloaded as a _____ of the class, with one parameter of _____ type.

- A. Member function, int** **Google**
- B. Member function, char

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- C. Non-member function, int
- D. Non-member function, char

We can get the address of a variable stored in a pointer using _____:

- a. symbol
- B. :: symbol
- C. ->symbol
- D. & symbol** **Google**

Suppose "int a;" is a static data member of a class named test. Which of the following is the correct way of initializing the static variable outside the class test?

- A. test a = 0;**
- B. int test::a = 0;
- C. int test->a = 0;

_____ Operator is used to create objects at run time.

- A. New** **Page 118**
- B. Create
- C. Dynamic
- D. Subscript

Which of the following statement is NOT true about static variable of a class?

- A. They are created even when there is no object of a class.
- B. Static variable belongs to a particular instance of a class.**
- C. Static variable is initialized once only throughout the program.
- D. They remain in memory even when all Objects of a class are destroyed.

Static Data Members can be accessed through _____.

- A. Semi colon

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- B. Dot operator
- C. Scope resolution operator
- D. Dot operator and scope resolution operator**

Suppose we have a class named “Student”; which of the following statement is correctly declaring the pointer to the object for “Student” class?

- A. Student obj;
- B. Student &obj;
- C. Student *obj;**
- D. *Student obj;

Which of the following is the correct syntax of declaring static variable “count” of type int?

- A. int static count;
- B. int count static;
- C. static count int;
- D. static int count;**

In composition _____ are called from composing objects to composed objects.

- A. Pointers
- B. Destructors**
- C. Constructors
- D. Member Functions

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In C++, Composition is a relationship between _____ and _____ objects.

- A. Whole, part
- B. Parent, child**
- C. Base, derived
- D. All given options are correct.

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In which of the following OOP paradigm objects cannot exist independently?

- A. Aggregation
- B. Inheritance
- C. Composition

D. Polymorphism

Page 56

_____ remain in memory even when all objects of a class have been destroyed.

- A. Primitive Variables
- B. Static Data Members**
- C. Constant Data Members
- D. Instance Data Members

Page 114

We can access a private static data member of a class through _____.

- A. Static data member**
- B. Global data member
- C. Static member function
- D. Global member function

Google

Copy constructor is called when:

- A. An object is deleted.
- B. An object is created.
- C. An array of objects is created.

D. An object is created in term of pre existing object.

In expression $b = c / d$, the arity of division (/) operator is _____:

- A. 1
- B. 4
- C. 2**
- D. 3

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If you do not initialize static data member of a class of int type, it is automatically initialized with _____.

- A. 0
- B. 1
- C. Null
- D. -32767

In composition _____ are called from composed objects to composing objects.

- A. Pointers
- B. Variables
- C. Destructors
- D. Constructors

Page 130

In C++, which of the following is defined as stream insertion operator?

- A. *<
- B. <<
- C. *>
- D. >>

Page 158

Which of the following is an example of unary operator?

- A. Division Operator (/)
- B. Equality Operator (=)
- C. Inequality Operator (!=)
- D. Increment Operator (++)

Which of the following issue(s) can be caused by the use of friend functions?

- A. All of the given
- B. Tough debugging
- C. Data vulnerability
- D. Programming bugs

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Identify which of the following overloaded operator function's declaration is appropriate for the given call?

Rational_number_1 + 2.325

Where Rational_number_1

is an object of user defined class Rational_number.

A. operator+(double& obj);

B. None of the given choices

C. Rational_number operator+(Rational_number & obj);

D. Rational_number operator+(Rational_number &obj, double& num);

In C++, which of the following operator can only be overloaded as a member function of the class?

A. Equality Operator: ==

B. Function Operator: ()

C. Inequality Operator: !=

D. Stream Extraction Operator: >>

In _____, Base class can't always be replaced by the derived class.

Specialization

A class can have only _____ destructor(s).

One

Which of the following keyword tells the compiler to substitute the code within the function definition for every instance of a function call?

Inline

In OOP, we can achieve reusability through _____.

Inheritance

Through interface we represent object's _____.

Behaviour

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How many objects of a given class may be constructed in an application?

As many as the application asks for

The process of extracting common characteristics from two or more classes and combining them into a superclass is called _____.

Generalization

“Student registers Course and Teacher teaches the Course.” is an example of _____.

Binary Association

Which of the following concept is more close to encapsulation?

Information Hiding

Aggregation between objects shows that _____.

Objects have weak relationship

Identify the abstract class from the given statement: "Vehicle class is base class. Bus, Car, and Truck are derived classes."

Vehicle

An instance of user defined type is called _____.

Object

Enclosing all the characteristics of an object within the object itself is described as _____.

Encapsulation

Which of the following is a strong relationship?

Inheritance

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Composition is a strong relationship because

_____.
compose object cannot exist independently

Which of the following is NOT an access specifier in C++?

Hidden

How can we identify classes from a given problem statement?

By extracting Nouns from problem statement

If class B inherits from class A then it contains all characteristics of

_____.
Class A

Which of the following represents the two-way association?

Employee works for the company.

Constructor without any parameter is called _____.

Default constructor

All objects of same class has _____ attributes.

Same

Mermaid is an example of _____.

Single inheritance

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