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Capitulo 11

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his activity	v contains 29 questions.	
1.	Section 11.1 Introduction	
	$11.1\ Q1:$ Which of the following is not an operator overloaded by the C++ language?	
	O >>.	
	o pow.	
	O <<.	
	O +.	
2.	Section 11.2 Fundamentals of Operator Overloading	
	11.2 Q1: To use an operator on user-defined class objects, operator overloading:	
	Must always be used.	
	Must always be used, with three exceptions.	
	Must never be used.	
	Must never be used, with three exceptions.	
3.	11.2 Q2: The correct function name for overloading the addition (+) operator is:	
	operator+.	
	operator(+).	
	operator_+.	
	operator:+.	
4.	Section 11.3 Restrictions on Operator Overloading	
	11.3 Q1: Which of the following operators cannot be overloaded?	
	The -> operator.	
	The . operator.	

The & operator. The [] operator.

5.	11.3 Q2: Which statement about operator overloading is false?
	 The precedence of an operator cannot be changed by overloading. Certain overloaded operators can change the number of arguments they take. New operators can never be created. Overloading cannot change how an operator works on built-in types.
6	11.3 Q3: To implicitly overload the += operator:
6.	The += operator cannot be overloaded implicitly. Both the + and = operators need to be overloaded. Only the + operator needs to be overloaded. Only the = operator needs to be overloaded.
7.	Section 11.4 Operator Functions as Class Members vs. Global Functions
	11.4 Q1: Which of the following operators can be overloaded as a global function? ==. () (). () []. +=.
8.	11.4 Q2: Which situation would require the operator to be overloaded as a global function? The overloaded operator is =.
	 The left most operand must be a class object (or a reference to a class object). The left operand is an int. The operator returns a reference.
9.	11.4 Q3: An overloaded + operator takes a class object and a double
	as operands. For it to be commutative (i.e., a + b and b + a both

operator+ must be a member function of the class from which the objects are

work):

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instantiated.
It must be overloaded twice; the operator+ function that takes the object as the left operand must be a member function, and the other operator+ function must be a global function.
The + operator cannot be overloaded to be commutative.
operator+ must be a non-member function.
Section 11.5 Overloading Stream Insertion and Stream Extraction Operators
11.5 Q1: Suppose you have a programmer-defined data type Data and want to overload the << operator to output your data type to the screen in the form cout << dataToPrint; and allow cascaded function calls. The first line of the function definition would be:
ostream &operator<<(const Data &dataToPrint, ostream &output).
ostream operator<<(const Data &dataToPrint, ostream &output).
ostream &operator<<(ostream &output, const Data &dataToPrint).
ostream operator<<(ostream &output, const Data &dataToPrint).
Section 11.6 Overloading Unary Operators 11.6 Q1: Suppose the unary! operator is an overloaded member function of class String. For a String object s, which function call is generated by the compiler when it finds the expression!s? output suppose the unary! operator is an overloaded member function of class String. For a String object s, which function call is generated by the compiler when it finds the expression!s? s.operator!(). operator!(). operator!(default_value1, default_value2,). operator!(s).
A compiler error results because no arguments are given.
Section 11.7 Overloading Binary Operators
11.7 Q1: y and z are user-defined objects and the $+=$ operator is an overloaded member function. The operator is overloaded such that y $+=$ z adds z and y, then stores the result in y. Which of the following expressions is always equivalent to $y += z$?
\bigcirc y.operator+=(z).
\cap v = v operator+= z.

y = y + z.

 \bigcirc y operator+=(y + z).

13.	11.7 Q2: For operators overloaded as non-static member functions:	
	 Both binary and unary operators take one argument. Binary operators can have two arguments and unary operators can have one. Neither binary nor unary operators can have arguments. 	
	Binary operators can have one argument, and unary operators cannot have any.	
14.	Section 11.8 Case Study: Array Class	
	11.8 Q1: Which of the following is false?	
	Two arrays cannot be meaningfully compared with equality or relational operators.	
	C++ ensures that you cannot "walk off" either end of an array.	
	Arrays cannot be assigned to one another (i.e., array1 = array2;).	
	An entire non-char array cannot be input or output at once.	
15.	11.8 Q2: The array subscript operator [], when overloaded, cannot:	
	Take a float as an operand.	
	Take multiple values inside (e.g., [4 8]).	
	Be used with linked list classes.Take user-defined objects as operands.	
	Take user defined objects as operands.	
16.	11.8 Q3: A copy constructor:	
	None of the above.	
	Is a constructor with only default arguments.	
	Is a constructor that takes no arguments.	
	 Is a constructor that initializes a newly declared object to the value of an existing object of the same class. 	

11.8 Q4: Copy constructors must receive its argument by reference because:

	0	Otherwise the constructor will only make a copy of a pointer to an object.	
	0	The copy of the argument passed by value has function scope.	
	0	Otherwise infinite recursion occurs.	
	0	The pointer needs to know the address of the original data, not a temporary copy of it.	
18.	11.8	3 Q5: To prevent class objects from being copied:	
	0	Make the overloaded assignment operator private.	
	0	None of the above.	
	0	Make the copy constructor private.	
	0	Both (a) and (b).	
19.	Sect	tion 11.9 Converting between Types	
	11.9	Q1: Conversion constructors:	
	0	Can convert between user-defined types.	
	0	Cannot convert built-in types to user defined types.	
	0	Are implicitly defined by the compiler if not explicitly written by the programmer.	
	0	Can have multiple arguments.	
20.	11.9 not:	Q2: The prototypes of overloaded cast operator functions do	
	0	Specify a return type.	
	0	Specify the type they convert to.	
	0	Need to be defined inside the class whose objects are being converted.	
	0	Specify the type that is being converted.	
21.	ovei	Q3: Which of the following lines would be the prototype for an rloaded cast operator function that converts an object of userned type Time into a double?	
	0	Time::operator double() const;.	
	0	Time::operator_cast(double) const;.	
	0	Time::static_cast double() const;.	
		d. Time::double() const:.	

22.	Section 11.10 Case Study: String Class
	11.10 Q1: Conversion constructors cannot:
	Be applied implicitly.
	 Be used to convert the arguments for overloaded operators to the types needed by those overloaded operators.
	Be used implicitly in series to match the needs of an overloaded operator.
	Take exactly one argument.
23.	11.10 Q2: Which of the following is not a disadvantage of default memberwise copy with objects containing pointers?
	Having the possibility of leaving a dangling pointer.
	Requiring the explicit overloading of the assignment operator.
	 Allowing the destructor of one object to be called while leaving the second pointer, to the same memory location, intact.
	 Allowing both objects to point to the same dynamically allocated storage.
24.	11.10 Q3: Assume that the function call operator() is overloaded for data type String in the usual sense of selecting a substring from a larger string. For a String object string1 with the character string "ABCDEFGHI", what string does string1(4,2) return?
	○ "EFGHI".
	○ "CDEF".
	O "EF".
	O "CD".
25.	Section 11.11 Overloading ++ and
	11.11 Q1: The conventional way to distinguish between the overloaded preincrement and postincrement operators (++) is:
	To make the argument list of postincrement include an int.
	To assign a dummy value to preincrement.
	 To have the postincrement operator call the preincrement operator.

Implicitly done by the compiler.



11.11 Q2: Because the postfix increment operator returns objects by value and the prefix increment operator returns objects by reference:

- Objects returned by postfix increment cannot be used in larger expressions.
- The postfix increment operator typically returns a temporary object that contains the original value of the object before the increment occurred.
- The postfix increment operator returns the actual incremented object with its new value.
- Prefix increment has slightly more overhead than postfix increment.



Section 11.12 Case Study: A Date Class

11.12 Q1: There exists a data type Date with member function Increment that increments the current Date object by one. The ++ operator is being overloaded to postincrement an object of type Date. Select the correct implementation:

```
Date Date::operator++( int )
{
   Date temp = *this;
   Increment();
   return *temp;
}.
Date Date::operator++( int )
   Date temp = *this;
   return this;
   temp.Increment();
}.
Date Date::operator++( int )
{
   Date temp = *this;
   Increment();
   return temp;
}.
Date Date::operator++( int )
```

Increment();

Date temp = *this;

return temp;
}.

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Section 11.13 Standard Library Class string

11.13 Q1: Which of the following is false?

- A string can be defined to store any data type.
- d. An exception is thrown. if the argument to string's at member function is an invalid subscript.
- Class string's overloaded [] operator returns a vector element as an rvalue or an Ivalue, depending on the context.
- b. Class string provides bounds checking in its member function at.

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Section 11.14 explicit Constructors

11.14 Q1: An explicit constructor:

- Cannot be called outside of the class it is declared in.
- Can be implicitly called by the compiler to perform a data type conversion.
- O Does not initialize its class's data members.
- Must take exactly one argument.

Clear Answers / Start Over

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