OOP244SCC Quiz 4: Print Full Name: @myseneca.ca Student number: Seneca Email ID: 1- When classifying operators, they fall in three categories. Name the three categories. 2- There are two ways to overload an operator, Name them. 3- Explain what is a unary operator. 4- Explain what is a binary operator. 5- Explain what is a ternary operator. 6- Explain the difference between a member and a helper operator. 7- What are the four parts of the signature of a member operator. 8- What is the general signature of a binary member operator? 9- What is the general signature of a unary pre-fix member operator? 10-What is the general signature of a post-fix member operator? Having the following class answer the upcoming questions: class Container { int m_volume; int m_capacity; public: Container(); Container(int volume, int capacity); // 11 _ operator____(); // 12 operator____(___); // 13 ___ operator____(_____); // 14 _____; // 16 ___ operator____ _____ ___ left, ______ ___ right); **}**; Fill in the blank in the questions below and their declaration above: 11- Overload the pre-fix "++" operator to add one to the volume of the Container only if the volume is less than the capacity. This operator returns the reference of the current Container object. ___::operator____(){ } return _____; } 12-Overload the post-fix "++" operator to add one to the volume of the Container only

if the volume is less than the capacity. This operator returns a copy of the

current Container object before the addition.

	() {
	;
}	if () {
	j
	}
	return temp;
	13-Overload the "+=" operator to add an integer value to the volume of the Container only if the sum is not greater than the capacity and then return the volume
	if () {
}	};
	return m_volume;
	14-Overload the type conversion operator in a Container, to convert it to an integer by returning the volume.
	(){ {
}	return;
	15-Overload the "+" helper operator by reusing the += member operator. This operator returns a Container that has the sum of the volume of the left Container reference and the right Container reference operands.
	operator
	(left, right) {
	temp = left;
}	return temp;
	16-Overload the ">" friend helper operator that returns true if the volume of the left Container operand is greater that the right Container operand.
	operator
	(left, right){
	return >;
}	