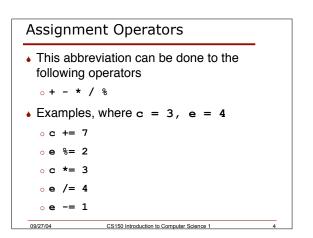
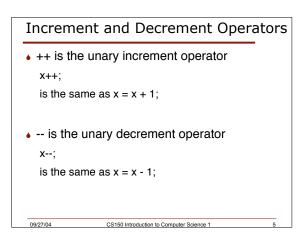


- sum = sum + num;
- Can be abbreviated to
- sum += num;

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Pre	Post	
k =x;	k =x;	
k = ++x;	k = x++;	
Increment/	Assign value of x to	
decrement x	k, then increment	
then assign	or decrement x	
value of x to k		
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Example

```
What is the output if i = 2?

cout << "Value of x is" << i;

cout << "Value of i++ is" << i++;

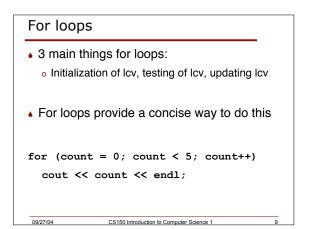
cout << "Value of ++i is" << ++i;

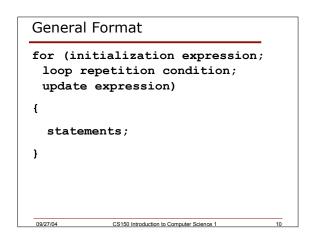
cout << "Value of --i is" << --i;

cout << "Value of i-- is" << i--;

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```

Operator Precedence			
()	L->R	Parentheses	
++,, static_cast <type>()</type>	L->R	Unary	
++,, !, +, -	R->L	Negation, Unary	
*,/,%	L->R	Mult, div, mod	
+, -	L->R	Add, Subtract	
<<, >>	L->R	Insertion/extraction	
<, <=, >, >=	L->R	Relational	
==, !=	L->R	Equality	
& &	L->R	And	
11	L->R	Or	
?:	R->L	Conditional	
=, +=, -=, *=, /=, %=	R->L	Assignment	
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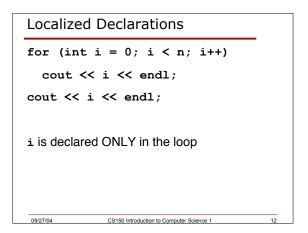


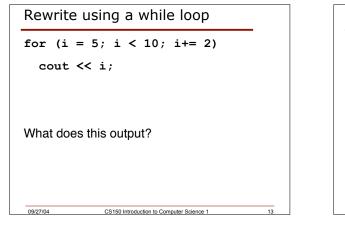
Examples

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- Write a for loop that outputs odd numbers less than 10
- Write a program that computes the factorial of a number

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Problem

• Write a program that will print the sum of the odd integers between 1 and 50 inclusive. Write one program using a while and the other using a for loop.

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Problem

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- Write a program that allows the user to enter an unknown number of integer values one at a time. When the user enters -999, you are to terminate the loop and print the following:
 - o The sum of all integers inputted
 - o The average of all integers inputted
 - o The largest integer of all integers inputted

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Summary

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- In today's lecture we covered
 - o Abbreviating assignment operators
 - o Increment and decrement operators
 - for repetition structures
- Readings

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- o P. 98 Assignment operators
- o P. 99 102 Increment and decrement operators
- o P. 104 113 for repetition structures

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