

## Intro

9/26/05

- Last time we
  - o Introduced the idea of selection structures
  - Illustrated selection structures using if statements
  - o Covered logical operators
- · Today we will
  - Complete talking about selection structures using multiple alternative if statements and if/else

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 9.1: Write a program segment that allows the user to input two integer values into variables num1 and num2. Your program is to then exchange the values in the variables num1 and num2 only if num1 is greater than num2

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if/else S	election Structure
This is the m	ultiple alternative if
<ul> <li>Used when a the condition</li> </ul>	lifferent statements should execute if is false
if (condition	) if (condition)
<pre>statementT;</pre>	{
else	<pre>statementsT;</pre>
<pre>statementF;</pre>	}
	else
	{
	<pre>statementsF;</pre>
	}
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## Conditional Operator ?:

- The format of the operator is • ( condition ? true-statement : false-statement )
- The conditional operator works if there is only one statement for a true evaluation and only one statement for a false evaluation

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## Problem

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 9.5: Write a C++ program segment that allows the user the ability to input an integer from the keyboard. If the integer is positive, increment a variable poscount by 1. If the integer is negative, increment a variable negcount by 1. If neither, increment zerocount by 1

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Problem		
<ul> <li>9.6: Write a grade corre</li> </ul>	a program that displays a le esponding to an exam scor	etter e
90 - 100 A		
80 - 89 B		
70 - 79 C		
60 - 69 D		
0-59 F		
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## Summary

- In today's lecture we covered
  - if/else selection structures
  - $\circ$  if structures with multiple statements { }
  - Nested if/else selection structures
- Readings

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- P. 77 78: if/else selection structures
- P. 78 79: conditional operator ?:
- P. 79 81: nested if/else selection structures and if structures with multiple statements

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