

12.1 Examples

- Write the C++ expressions for each of the following
 - $_{\circ}\,$ x and y are greater than z
 - x is equal to 1.0 or 3.0
 - $_{\circ}\,$ x is the range z to y inclusive
 - x is outside the range z to y

12.2 Program

9/27/06

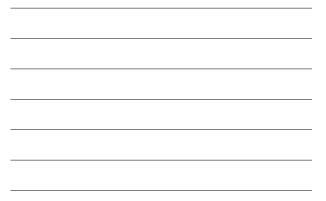
9/27/06

• 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

CS150 Introduction to Computer Science 1

CS150 Introduction to Computer Science 1

if/else/if statements (4.4)
 What if there are more than two alternatives? if (expression1)
<pre>statement1; } else if (expression2)</pre>
<pre>{ statement2; </pre>
} else
<pre>{ default statement; }</pre>
9/27/06 CS150 Introduction to Computer Science 1



12.3 Problem

• 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

12.4 Problem

9/27/06

• Write a program that displays a letter grade corresponding to an exam score

CS150 Introduction to Computer Science 1

CS150 Introduction to Computer Science 1

- 90 100 A
- 80 89 B
- 70 79 C
- 60 69 D
- 0-59 F

9/27/06

Nested if Statements (4.6)

 The second if is only executed if the 	if (x>y) {
first if conditional is	} else
Tarse	{
Note the indentation	if (x == 9)
of the inner if	{
	}
 There may be code 	else
between the { with	{
the first else and the	}
second if	}
9/27/06 CS150 Introduction	to Computer Science 1



12.5 Example

- Write nested if statements that perform the following test:
 - If amount1 is greater than 10 and amount2 is less than 100, display the greater of the two

CS150 Introduction to Computer Science 1

• Can you write the solution to the above problem without nested if statements

Using nested ifs...

9/27/06

9/27/06

• Write a snippet of code that will do the following:

CS150 Introduction to Computer Science 1

- add y to x if x == y
- add x to y if y > x
- add 1 to x if (2 * y) == x
 - int x, y;
 if (