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### 12.1 Examples

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


### 12.2 Program

- 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 $\qquad$
$\qquad$
$\qquad$
$\qquad$

[^0]$\qquad$
$\qquad$
$\qquad$

```
if/else/if statements (4.4)
- What if there are more than two alternatives?
        if (expression1)
    {
        statement1;
    }
    else if (expression2)
    {
        statement2;
    }
    else
    {
        default statement;
    }
9/27/06
```

$\qquad$

### 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

- Write a program that displays a letter grade corresponding to an exam score
$\qquad$
90-100 A $\qquad$
80-89 B
70-79 C $\qquad$
60-69D
0-59 F
$\qquad$
$\qquad$
$\qquad$



### 12.5 Example

- Write nested if statements that perform the following test:
- If amount 1 is greater than 10 and amount2 is less than 100, display the greater of the two
- Can you write the solution to the above problem without nested if statements



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