Chapter 4
1. Write out the truth table for the &\& logical operator.
2. Write out the truth table for the || logical operator.
3. Which logical operator should be used to determine whether a number is **inside** a numeric range?
4. Which logical operator should be used to determine whether a number is **outside** a numeric range?
5. Which logical operator should be used to determine if two values are **not equal**?
6. An expression using the conditional operator is called a ________ expression.
7. A relational expression is either ________ or ________.
8. The if statement regards an expression with a nonzero value as ________.
9. **TRUE** or **FALSE**: The = operator and the == operator perform the same operation when used in a Boolean expression.
10. **TRUE** or **FALSE**: A conditionally executed statement should be indented one level from the if statement.
11. **TRUE** or **FALSE**: In an if/else statement it is possible for both blocks of code to be executed.
12. **TRUE** or **FALSE**: You can use the relational operators to compare string objects.
13. Assume the following variables have been initialized:
    
    ```
    int x = 5;
    int y = 6;
    int z = 8;
    ```
    Indicate whether each expression will return **true** or **false**:
    13.1. x == 5  
    13.2. 7 <= (x+2)  
    13.3. z < 4  
    13.4. (2 + x) != y  
    13.5. z >= 9  
    13.6. z <= (y * 2)