

## The `if` command's logical friends

You can use the logical operators `&&` and `||` to help the `if` command make multiple decisions in one statement:

The `&&` is the logical AND operator.

The `||` is the logical OR operator.

Table 14-1 explains both.

<i>Operator</i>	<i>Meaning</i>	<i>"True" Examples</i>
<code>  </code>	Or	<code>true    true</code>
		<code>true    false</code>
		<code>false    true</code>
<code>&amp;&amp;</code>	And	<code>true    true</code>

The logical operator is used on two standard `if` command comparisons. For example:

```
if(temperature>65 && temperature<75)
{
    printf("My, but it's nice weather outside\n");
}
```

In this example, the `if` command makes two comparisons: `temperature>65` and `temperature<75`. If both are true, the `&&`, logical AND condition is also true and the entire statement passes; the `printf()` function then displays the string. Table 14-2 shows the possibilities of how you can figure it out.

<i>Temperature</i>	<i>temperature&gt;65</i>	<i>(and)</i>	<i>temperature&lt;75</i>	<i>Logical AND result</i>
45	<code>45&gt;65</code>		<code>45&lt;75</code>	
	FALSE	<code>&amp;&amp;</code>	TRUE	FALSE
72	<code>72&gt;65</code>		<code>72&lt;75</code>	