More on switch

Consider this code fragment inside a switch:

```
case 'a':
 case 'e':
 case 'i':
 case 'o':
 case 'u':
     cout << "vowel";
     break;</pre>
```

As you can see, **break** statements are **not required** at the end of each **case**. If the **break** is missing, the program continues executing the **next clause** after it finishes the selected one. We say the **case falls-through**.

This is useful as shown here where the output is printed for all of the lower-case vowels.

```
case ' ': case '\t': case '\n':
cout << "whitespace";
break;</pre>
```

If there is nothing in the body of the case, it may be more readable to format it like the whitespace block shown here.

If there is **any code** inside a **case** block that falls through, most compilers will issue a warning. If you **intend** to fall through, and you want to suppress the warning, add a comment like this, just before the second case:

```
// fall through
```

A Few More Rules

- Two case labels may not have the same value
- A label must precede a statement or another case label. It may not be alone.
- Variables **may not** be defined inside one **case** block and then used in another.

