

# Blocks, Style & Indentation

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In previous example, both the **if** body and the **else** body contain a **single statement**, so braces **are not required**, even though I would recommend adding them. When you want to have a **group of statements** in place of a single statement, place those statements in a **block**, sometimes called a **compound statement**, which is a collection of statements enclosed in curly braces.

The placements of braces and indentation are topics of "religious" fervor. You can read more about the "wars", and the different styles [on Wikipedia](#).

The most common styles are **K&R style**, which places the opening brace on the same line as the header, and **Allman** (or **ANSI** or **BSD**) style, which places the opening brace on its own line.

```
// K&R Formatted
cout << "The number " << n << " is ";
if (nt % 2 == 0) {
    cout << "even." << endl;
} else {
    cout << "odd." << endl;
}
```

The K&R style, shown here, is more compact, but, for me, the Allman style (which is what I normally use), is more readable.

Statements inside of a block are usually **indented**. The compiler ignores the indentation, but the visual effect is helpful since it emphasizes the program structure when reading it. Empirical research has shown that **indenting three or four spaces** at each new level makes the program structure easiest to see; in CS150 I'll use four spaces for each new level.

Indentation is critical to good programming, so you should strive to develop a consistent indentation style in your programs.



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