## **Comparing C-Strings**

Do not use the relational operators (<, ==, etc.) to compare C-strings. Instead, use the library function strcmp(), which compares s1 and s2 lexicographically and returns an integer indicating their relationship:

- Zero if the two strings are equal.
- Negative if the first string lexicographically precedes the second string. (Lexicographically simply means "in dictionary order").
- Positive if the first string lexicographically follows the second string.

To use **strcmp()** correctly:

- · Call the function and save the int it returns.
- Use the returned value with a relational operator.
- **Don't** treat the return value from **strcmp()** as a Boolean expression.
- Don't repeatedly call **strcmp()** on the same strings (inefficient).

Here's a quick example. The C-strings  ${\tt s1}$  and  ${\tt s2}$  are initialized elsewhere. Since we don't need to modify either argument, we can use "pointer-style" C-strings.



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