

C-Style Strings

Exercises

- Describe the structure of a C-style string
- Give two different ways to initialize a C-style string

- How is a string literal implemented?

- Give some of the drawbacks of using C-style string manipulation functions

- Give some advantages of C-style strings compared to `std::string`

- Give some disadvantages of C-style strings compared to `std::string`

- The strcmp function compares two C-style strings
 - Defined in <cstring>, safe if given null-terminated inputs
- strcmp(s1, s2) will return
 - 1 if $s1 > s2$
 - 0 if $s1 == s2$
 - -1 if $s1 < s2$
 - Uses case-sensitive alphabetical ordering (strictly speaking lexicographical, which covers numbers, punctuation etc)

- Using strcmp, write a function my_max() which will compare two C-style strings and return the larger
- Write a program to test your function which calls my_max with two string literals and prints out the returned string
- Amend your program to compare two array-initialized C-style strings
- What happens if the strings are not null terminated?