



STRINGS AND C-STRINGS

C++ Supports Two String Types



C-STRINGS

- The original string type inherited from the C Programming Language
- The name stands for either
 - C-Style strings
 - Character strings
- Considered a primitive data type
- Composed of characters arrays were a special character, called a null-terminator, marks the end of character data in the string
- Still used for command line arguments and systems programming



STRING CLASS

- The C++ string class is very similar to the Java String class
- Considered a high-level data type (the class wraps a character array)
- More dynamic than a C-string (manages its own memory)
- Numerous functions and operators are supported
 - `#include <string>`
 - `==, !=, <, <=, >, >=, =, +, +=`
 - Individual characters are accessed with “at” function or the '[' and ']' operators



STRING CHARACTERISTICS

- Character data
 - The characters saved in or represented by the string
- Length or size
 - The number of characters currently saved
- Capacity
 - The maximum number of characters a fundamental string can hold
 - The maximum number of characters a string can hold before growing

