

THE C++ STRING CLASS

#include <string>

INTRODUCTION TO THE C++ STRING CLASS

- The C++ string class is similar to the Java String class
 - Class name begins with a lower case s
 - Must #include <string>
 - Supports more operators
- The string class is related to C-strings
 - Supports operators (C-strings do NOT support operators)
 - Manages its own memory
 - Can convert to and from C-string

STRING CONSTRUCTORS

Prototype	Example	Comments
string();	string s1;	Default constructor
string(const char* s);	string s1("Hello");	Conversion constructor
string(const string& s);	string s2(s1);	Copy constructor

STRING OPERATORS

Operator	Meaning	Example
=	Assignment	s1 = s2
+	Concatenation	s = s1 + s2;
+=	Concatenation with assignment	s += s2;
==	Equality	if $(s1 == s2)$
!=	Inequality	if (s1 != s2)
<, <=, >, and >=	Relational	if (s1 < s2)
[] and at()	Character access	char $c = s1[i];$
		char $c = sl.at(i);$
<<	Output	cout << s2;