Std class string member functions

Member Functions of the Standard Class `string`

Example	Remarks
Constructors	
`string str;`	Default constructor creates empty `string` object `str`.
`string str("sample");`	Creates a `string` object with data `"sample"`.
`string str(a_string);`	Creates a `string` object `str` that is a copy of `a_string`; `a_string` is an object of the class `string`.
Element access	
`str[i]`	Returns read/write reference to character in `str` at index `i`. Does not check for illegal index.
`str.at(i)`	Returns read/write reference to character in `str` at index `i`. Same as `str[i]`, but this version checks for illegal index.
`str.substr(position, length)`	Returns the substring of the calling object starting at `position` and having `length` characters.
Assignment/modifiers	
`str1 = str2;`	Initializes `str1` to `str2`'s data,
`str1 += str2;`	Character data of `str2` is concatenated to the end of `str1`.
`str.empty( )`	Returns *true* if `str` is an empty string; *false* otherwise.
`str1 + str2`	Returns a string that has `str2`'s data concatenated to the end of `str1`'s data.
`str.insert(pos, str2);`	Inserts `str2` into `str` beginning at position `pos`.
`str.remove(pos, length);`	Removes substring of size `length`, starting at position `pos`.
Comparison	
`str1 == str2` `str1 != str2`	Compare for equality or inequality; returns a Boolean value.
`str1 < str2` `str1 > str2` `str1 <= str2` `str1 >= str2`	Four comparisons. All are lexicographical comparisons.
Finds	
`str.find(str1)`	Returns index of the first occurrence of `str1` in `str`.
`str.find(str1, pos)`	Returns index of the first occurrence of string `str1` in `str`; the search starts at position `pos`.
`str.find_first_of(str1, pos)`	Returns the index of the first instance in `str` of any character in `str1`, starting the search at position `pos`.
`str.find_first_not_of` `   (str1, pos)`	Returns the index of the first instance in `str` of any character not in `str1`, starting the search at position `pos`.