Member Functions of basic_string Class

append
    Adds characters to the end of a string.

assign
    Assigns new character values to the contents of a string.

at
    Returns a reference to the element at a specified location in the string.

back
    Returns a reference to the last element in the string

begin
    Returns an iterator addressing the first element in the string.

c_str
    Converts the contents of a string as a C-style, null-terminated, string.

capacity
    Returns the largest number of elements that could be stored in a string without increasing the memory allocation of the string.

cbegin
    Returns a const iterator addressing the first element in the string.

cend
    Returns a const iterator that addresses the location succeeding the last element in a string.

clear
    Erases all elements of a string.

compare
    Compares a string with a specified string to determine if the two strings are equal or if one is lexicographically less than the other.

copy
    Copies at most a specified number of characters from an indexed position in a source string to a target character array. Deprecated. Use **basic_string::_Copy_s** instead.

crbegin
    Returns a **const iterator** that addresses the first element in a reversed string.

crend
    Returns a **const iterator** that addresses the location succeeding the last element in a reversed string.

_Copy_s
    Copies at most a specified number of characters from an indexed position in a source string to a target character array.

data
    Converts the contents of a string into an array of characters.

empty
    Tests whether the string contains characters.

end
    Returns an iterator that addresses the location succeeding the last element in a string.

erase
    Removes an element or a range of elements in a string from a specified position.

find
    Searches a string in a forward direction for the first occurrence of a substring that matches a specified sequence of characters.

find_first_not_of	**Searches** through a string for the first character that is not any element of a specified string.
find_first_of	**Searches** through a string for the first character that matches any element of a specified string.
find_last_not_of	**Searches** through a string for the last character that is not any element of a specified string.
find_last_of	**Searches** through a string for the last character that is an element of a specified string.
front	**Returns** a reference to the first element in a string.
get_allocator	**Returns** a copy of the **allocator** object used to construct the string.
insert	**Inserts** an element or a number of elements or a range of elements into the string at a specified position.
length	**Returns** the current number of elements in a string.
max_size	**Returns** the maximum number of characters a string could contain.
pop_back	**Erases** the last element of the string.
push_back	**Adds** an element to the end of the string.
rbegin	**Returns an iterator** to the first element in a reversed string.
rend	**Returns an iterator** that points just beyond the last element in a reversed string.
replace	**Replaces** elements in a string at a specified position with specified characters or characters copied from other ranges or strings or C-strings.
reserve	**Sets** the capacity of the string to a number at least as great as a specified number.
resize	**Specifies a new size** for a string, appending or erasing elements as required.
rfind	**Searches** a string in a backward direction for the first occurrence of a substring that matches a specified sequence of characters.
shrink_to_fit	**Discards** the excess capacity of the string.

size
       Returns the current number of elements in a string.

substr
       Copies a substring of at most some number of characters from a string beginning from a specified position.

swap
       Exchange the contents of two strings.

Operators of basic_string Class

operator+=
       Appends characters to a string.

operator=
       Assigns new character values to the contents of a string.

operator[]
       Provides a reference to the character with a specified index in a string.