Programación Avanzada I Tarea 18

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Problema 6.

La diferencia entre poner o no la "r" al principio antes del nombre de cada función es para indicar si es *reverse* o no, es decir, para ver si el iterador comienza al principio o al final.

Agrego las definiciones:

Fuente: http://www.cplusplus.com/reference/string/string/begin/

1.1. string::begin

public member function

iterator begin(); const_iterator begin() const;

Return iterator to beginning

Returns an iterator referring to the first character in the string.

Parameters

none

Return Value

An iterator to the beginning of the string.

The type of this iterator is either string::iterator member type or string::const_iterator member type, which are compiler specific iterator types suitable to iterate through the elements of a string object.

1.2. string::end

public member function

iterator end(); const_iterator end() const;

Return iterator to end

Returns an iterator referring to the next element after the last character in the string.

Parameters

none

Return Value

An iterator past the end of the string.

The type of this iterator is either string::iterator member type or string::const_iterator member type, which are compiler specific iterator types suitable to iterate through the elements of a string object.

2.1 string::rbegin

public member function

reverse_iterator rbegin(); const_reverse_iterator rbegin() const;

Return reverse iterator to reverse beginning

Returns a reverse iterator referring to the last character in the string, which is considered the reverse beginning.

rbegin refers to the character right before the one that would be referred to by member end.

Parameters

none

Return Value

A reverse iterator to the reverse beginning of the string (i.e., the last character).

The type of this iterator is either string::reverse_iterator member type or string::const_reverse_iterator member type, which are compiler specific iterator types suitable to perform a reverse iteration through the elements of a string object.

2.2. string::rend

public member function

reverse_iterator rend(); const_reverse_iterator rend() const;

Return reverse iterator to reverse end

Returns a reverse iterator referring to the element right before the first character in the string, which is considered the reverse end.

rend refers to the character right before the one that would be referred to by member begin.

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Parameters

none

Return Value

A reverse iterator to the reverse end of the string (i.e., the element right before its first character).

The type of this iterator is either string::reverse_iterator member type or string::const_reverse_iterator member type, which are compiler specific iterator types suitable to perform a reverse iteration through the elements of a string object.

3. Para una contenedor <T>, el tipo iterator actúa como un **T***, mientras que const_iterator actúa como un **const T***. Para más detalles se puede consultar:

Fuente: http://www.aristeia.com/Papers/CUJ_June_2001.pdf