Sequence < Key, Info > Class Template Reference

Basic singly-lined list implementation. More...

Classes

class iterator

Public Member Functions

	Sequence ()
	Sequence (const Sequence< Key, Info > &x)
	~Sequence ()
Sequence< Key, Info > &	operator= (const Sequence< Key, Info > &x)
iterator	begin () const
iterator	end () const
iterator	find (const Key &vKey, int occurrence=1) const
void	clear ()
bool	empty () const
void	push_front (const Key &key, const Info &info)
void	push_front (const iterator ⁢)
bool	push_after (const Key &key, const Info &info, const Key &where, int occurrence=1)
bool	pop_front ()
bool	remove (const Key &key, int occurrence=1)

Friends

template<typename A , typename B > std::ostream & operator<< (std::ostream &cs, const Sequence< A, B > &x)

Detailed Description

template<typename Key, typename Info> class Sequence< Key, Info >

Basic singly-lined list implementation.

Constructor & Destructor Documentation

• Sequence() [1/2]

template<typename Key , typename Info >

Sequence < Key, Info >::Sequence

Constructs the list.

• Sequence() [2/2]

template<typename Key , typename Info >

Sequence < Key, Info >::Sequence (const Sequence < Key, Info > & x)

Copy constuctor.

```
~Sequence()
template<typename Key , typename Info >
Sequence < Key, Info >::~Sequence
Destructs the list
```

Member Function Documentation



empty() template<typename Key , typename Info > bool Sequence < Key, Info >::empty Outputs information about the status of the elements. Returns

: False - if there are elements in the list, True - otherwise.

```
• end()
template<typename Key , typename Info >
iterator Sequence< Key, Info >::end ( ) const
                                                                                                                                                      inline
Iterator to last element of the list + 1.
```

find() template<typename Key , typename Info > Sequence< Key, Info >::iterator Sequence< Key, Info >::find (const Key & vKey, int occurrence = 1 const Method finding an element.

```
• operator=()
```

template<typename Key , typename Info >

Sequence< Key, Info > & Sequence< Key, Info >::operator= (const Sequence< Key, Info > & x)

Assign values to the container

pop_front()

template<typename Key , typename Info >

bool Sequence < Key, Info >::pop_front

Deletes the first element of the list.

Returns

: True - first element was deleted. False - otherwise.

• push_after()

Pushes value and key after the given occurence number of Key.

Parameters

[in] key : Key to be inserted.
[in] info : Info to be inserted

[in] where : Element after which we want to insert.

[in] occurrence: Number of occurences of a where. 1 by default.

Returns

: True - if element has been added, False - otherwise.

• push_front() [1/2]

template<typename Key , typename Info >

void Sequence< Key, Info >::push_front (const iterator & it)

Pushes value and key to the front of the list.

Parameters

[in] key : Key
[in] info : Info

• push_front() [2/2]

Friends And Related Function Documentation

```
◆ operator<</p>
template<typename Key , typename Info >
template<typename A , typename B >
std::ostream& operator<< ( std::ostream & os,</p>
const Sequence< A, B > & x
)
Overloading the << operator.</p>
```