core::rb_tree

template <class Key, class Value, class KeyOfValue, class KeyCompare = less<Key>, class Allocator = allocator<T> > class rb_tree;

Member types

member type	definition	notes
key_type	The first template parameter (Key)	
value_type	The second template parameter (Value)	
key_compare	The fourth template parameter (KeyCompare)	defaults to: less<Key>
allocator_type	The fifth template parameter (Allocator)	defaults to: allocator<Value>
reference	value_type&	
const_reference	const value_type&	
pointer	value_type*	
const_pointer	const value_type*	
iterator	a bidirectional iterator to value_type	convertible to: const_iterator
const_iterator	a bidirectional iterator to const value_type	
reverse_iterator	a bidirectional reverse iterator to value_type	
const_reverse_iterator	a bidirectional reverse iterator to const value_type	
primitive_iterator	a bidirectional primitive iterator to value_type	convertible to: const_primitive_iterator
const_primitive_iterator	a bidirectional primitive iterator to const value_type	
reverse_primitive_iterator	a bidirectional reverse primitive iterator to value_type	

const_reverse_primitive_iterator	a bidirectional reverse primitive iterator to const value_type	
size_type	an unsigned integral type that can represent any non-negative value of difference_type	usually the same as size_t
difference_type	a signed integral type	usually the same as ptrdiff_t

Member functions

(constructor)	Construct red-black tree (public member function)
(destructor)	Red-black destructor (public member function)
operator=	Assign content (public member function)

Iterators:

begin	Return iterator to beginning (public member function)
end	Return iterator to end (public member function)
rbegin	Return reverse_iterator to reverse beginning (public member function)
rend	Return reverse_iterator to reverse end (public member function)
cbegin	Return const_iterator to beginning (public member function)
cend	Return const_iterator to end (public member function)
crbegin	Return const_reverse_iterator to reverse beginning (public member function)
crend	Return const_reverse_iterator to reverse end (public member function)
pbegin	Return primitive_iterator to beginning (public member function)
pend	Return primitive_iterator to end (public member function)
rpbegin	Return reverse_primitive_iterator to reverse beginning (public member function)
rpend	Return reverse_primitive_iterator to reverse end (public member function)
cpbegin	Return const_primitive_iterator to beginning (public member function)
cpend	Return const_primitive_iterator to end (public member function)

crpbegin	Return const_reverse_primitive_iterator to reverse beginning (public member function)
crpend	Return const_reverse_primitive_iterator to reverse end (public member function)

Capacity:

empty	Test whether container is empty (public member function)
size	Return size (public member function)
max_size	Return maximum size (public member function)

Modifiers:

emplace_equal	Construct and insert a repeatable element (public member function)
insert_equal	Insert repeatable elements (public member function)
emplace_unique	Construct and insert a unique element (public member function)
insert_unique	Insert unique elements (public member function)
erase	Erase elements (public member function)
swap	Swap content (public member function)
clear	Clear content (public member function)

Operations:

find	Get iterator to element (public member function)
lower_bound	Return iterator to lower bound (public member function)
upper_bound	Return iterator to upper bound (public member function)

Observers:

key_comp	Return key comparison object (public member function)
get_allocator	Get allocator (public member function)