Red-Black Trees in C++

(public member function)

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extracts nodes from the container

splices nodes from another container

swap

extract (C++17)

merge (C++17)

C++ provides us a balanced BST as part of the standard library:

		Lookup		
		count	returns the number of elements matching specific key (public member function)	
Modifiers		find	finds element with specific key (public member function)	
clear	clears the contents (public member function)	contains (C++20)	checks if the container contains element with specific key (public member function)	
insert	inserts elements or node (public member function)	equal_range	returns range of elements matching a specific key (public member function)	
<pre>insert_or_assign(C++17)</pre>	inserts an element or ass (public member function)	lower bound	returns an iterator to the first element not less than the given key	
emplace(C++11)	constructs element in-pla (public member function)	(public member function)		
emplace_hint(C++11)	constructs elements in-p (public member function)	upper_bound	returns an iterator to the first element greater than the given key (public member function)	
try_emplace(C++17)	inserts in-place if the key (public member function)	does not exist, does nothing if the k	ey exists	
erase	erases elements (public member function)			
swan	swaps the contents			