

Container	Category	Usage / Features	Common Operations
vector	Sequence	Dynamic array, random access, fast push_back	push_back, pop_back, insert, erase, sort
deque	Sequence	Double-ended queue, fast push/pop from both ends	push_back, push_front, pop_back, pop_front
list	Sequence	Doubly linked list, fast insert/delete anywhere	push_back, push_front, insert, erase, sort
forward_list	Sequence	Singly linked list, fast forward traversal	push_front, insert_after, erase_after
stack	Adapter	LIFO stack using deque or vector	push, pop, top
queue	Adapter	FIFO queue using deque	push, pop, front, back
priority_queue	Adapter	Heap structure, always returns largest element	push, pop, top
set	Associative	Sorted unique elements, fast lookup	insert, erase, find, lower_bound
multiset	Associative	Sorted duplicate elements allowed	insert, erase, find, count
unordered_set	Unordered Associative	Hash table, unique elements, average O(1) operations	insert, erase, find, count
unordered_multiset	Unordered Associative	Hash table, allows duplicates	insert, erase, find, count
map	Associative	Sorted key-value pairs, unique keys	insert, erase, find, at, []
multimap	Associative	Sorted key-value pairs, duplicate keys allowed	insert, erase, find, equal_range
unordered_map	Unordered Associative	Hash table, key-value pairs, unique keys	insert, erase, find, at, []
unordered_multimap	Unordered Associative	Hash table, duplicate keys allowed	insert, erase, find, equal_range