Queue Built-in Functions

1. Constructor

Name	Details	Time Complexity
queue<type>q;	Construct an empty queue.	O(1)
queue<type>q(c);	Construct a queue by copying another container c.	O(N)

2. Capacity

Name	Details	Time Complexity
q.size()	Returns the number of elements in the queue.	O(1)
q.empty()	Returns true if the queue is empty, false otherwise.	O(1)

3. Modifiers

Name	Details	Time Complexity
q.push(value)	Pushes the value onto the end of the queue.	O(1)
q.pop()	Removes the element at the front of the queue.	O(1)
q.emplace(args...)	Constructs and inserts a new element at the end of the queue.	O(1)
q.swap(queue)	Exchanges the contents of the queue with those of another queue.	O(1)

4. Element Access

Name	Details	Time Complexity
q.front()	Returns a reference to the front element in the queue.	O(1)
q.back()	Returns a reference to the last element in the queue.	O(1)