Stack Built-in Functions

1. Constructor

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

2. Capacity

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

3. Modifiers

Name	Details	Time Complexity
s.push(value)	Pushes the value onto the top of the stack.	O(1)
s.pop()	Removes the element on the top of the stack.	O(1)
s.emplace(args...)	Constructs and inserts a new element on the top of the stack.	O(1)
s.swap(stack)	Exchanges the contents of the stack with those of another stack.	O(1)

4. Element Access

Name	Details	Time Complexity
s.top()	Returns a reference to the top element in the stack.	O(1)