**Exercise 2: Verifying Interactions**

**Mockito’s verify() Syntax**

verify(mock).method(args); // called once

verify(mock, times(n)).method(args); // called n times

verify(mock, never()).method(args); // not called

verify(mock, atLeastOnce()).method(args); // called 1+ times

verify(mock, atMost(2)).method(args); // max 2 times

**Example: Verifying Interactions**

import org.junit.jupiter.api.Test;

import static org.mockito.Mockito.\*;

import java.util.List;

public class VerifyExample {

@Test

void testVerifyInteraction() {

// Arrange (mocking)

List<String> mockList = mock(List.class);

// Act (calling methods on mock)

mockList.add("A");

mockList.add("B");

mockList.add("A");

mockList.clear();

// Assert (verify interactions)

verify(mockList).add("A"); // was called at least once

verify(mockList, times(2)).add("A"); // exactly 2 times

verify(mockList, times(1)).add("B"); // exactly once

verify(mockList, never()).add("C"); // never called

verify(mockList).clear(); // was called

}

}

verify(mockList, times(3)).add(anyString()); // added 3 times with any string