**> TestNG test class that tests the functionality of the RecentlyPlayedSongsStore class:**

import org.testng.annotations.Test;

import java.util.\*;

import static org.testng.Assert.assertEquals;

public class RecentlyPlayedSongsStoreTest {

private final RecentlyPlayedSongsStore store = new RecentlyPlayedSongsStore(3);

@Test

public void testAddAndGetRecentlyPlayedSongsForUser() {

store.add("user1", "S1");

store.add("user1", "S2");

store.add("user1", "S3");

assertEquals(store.getRecentlyPlayedSongsForUser("user1"), Arrays.asList("S1", "S2", "S3"));

store.add("user1", "S4");

assertEquals(store.getRecentlyPlayedSongsForUser("user1"), Arrays.asList("S2", "S3", "S4"));

store.add("user1", "S2");

assertEquals(store.getRecentlyPlayedSongsForUser("user1"), Arrays.asList("S3", "S4", "S2"));

store.add("user1", "S1");

assertEquals(store.getRecentlyPlayedSongsForUser("user1"), Arrays.asList("S4", "S2", "S1"));

store.add("user2", "S1");

store.add("user2", "S2");

assertEquals(store.getRecentlyPlayedSongsForUser("user2"), Arrays.asList("S1", "S2"));

assertEquals(store.getRecentlyPlayedSongsForUser("user3"), Collections.emptyList());

}

}