# test.py

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# Testing Library Management System

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from info import \*

print("\n--- INITIAL DATA ---")

print("Books:", books)

print("Members:", members)

# 1️⃣ Test: Add a new book

print("\n--- TEST 1: Add Book ---")

add\_book("002", "To Kill a Mockingbird", "Harper Lee", "Fiction", 2)

add\_book("003", "A Brief History of Time", "Stephen Hawking", "Non-Fiction", 4)

add\_book("004", "The Hobbit", "J.R.R. Tolkien", "Fantasy", 5)

print("Books after addition:", books)

# 2️⃣ Test: Add a new member

print("\n--- TEST 2: Add Member ---")

add\_member(2, "Rahman", "rahman@email.com")

add\_member(3, "Sade", "sade@email.com")

print("Members after addition:", members)

# 3️⃣ Test: Search for a book

print("\n--- TEST 3: Search Book ---")

search\_book("1984")

search\_book("Stephen Hawking")

# 4️⃣ Test: Update book details

print("\n--- TEST 4: Update Book ---")

update\_book("004", new\_title="The Hobbit: Illustrated Edition", new\_total=6)

print("Books after update:", books["004"])

# 5️⃣ Test: Borrow books

print("\n--- TEST 5: Borrow Book ---")

borrow\_book(1, "001") # Isha borrows 1984

borrow\_book(2, "002") # Rahman borrows To Kill a Mockingbird

borrow\_book(2, "003") # Rahman borrows A Brief History of Time

print("Books after borrowing:", books)

print("Members after borrowing:", members)

# 6️⃣ Test: Return a book

print("\n--- TEST 6: Return Book ---")

return\_book(1, "001") # Isha returns 1984

print("Books after return:", books)

print("Members after return:", members)

# 7️⃣ Test: Delete a book

print("\n--- TEST 7: Delete Book ---")

delete\_book("004") # Should delete successfully

delete\_book("002") # Should fail if borrowed

print("Books after deletion:", books)