Lab 6 unit testing

## 1: Manage Books

### Add book.

Happy path:

Input: Book title: test Author: TestA ISB: 12

Result: Success, book added

Edge case 1, number title:

Reasoning for potential failure: in case the input is set up in a way to not handle unexpected inputs

Input:Book title: 1 Author: TestA ISB: 12

Result: Success, book added

Edge case 2, number author:

Reasoning for potential failure: in case the input is set up in a way to not handle unexpected inputs

Input:Book title: test Author: 1 ISB: 12

Result: Success, book added

Edge case 3, all letters isbn:

Reasoning for potential failure: in case the input is set up in a way to not handle unexpected inputs

Input:Book title: test3 Author: test3 ISB: dsafdsajhjdlsafhjlk;asdfhkjl;dsf

Result: Success, book added

### Edit book

Happy path:

Input: Enter id: 1001 Book title: asdf Author: test 2 ISBN: 12344321

Result success, changed to input

Happy path2, all blank:

Input: all enters, like the progams says to

Result: success, no change

Edge case: enter id the does not exist:

Reasoning: should not crash, should just go back to menu

Input: id: 12222

Result: Book not found! This is expected result

### 3: delete book

`` Happy path, enter id that exists:

Input: id 1001

Result: Book deleted sucessfully, expected result

Edge case: id does not exist

Input: id: 12344321

Result: Book not found, expected result

### 4: list books:

Happy path:

Result: Lists books sucessfully

### 5: back

Happy path:

Result: goes back successfully

### 6: any other input

No error message, but does repeat menu

## 3.Manage Users

### Add User.

Happy path:

Input: User: test email: TestA

Result: Success, user added

Edge case 1, number name:

Reasoning for potential failure: in case the input is set up in a way to not handle unexpected inputs

Input:User: 1 Email: testa

Result: Success, user added

Edge case 2, number author:

Reasoning for potential failure: in case the input is set up in a way to not handle unexpected inputs

Input:User: test Email: 1

Result: Success, user added

### Edit user

Happy path:

Input: Enter id: 1001 user: asdf email: test2

Result success, changed to input

Happy path2, all blank:

Input: all enters, like the progams says to

Result: success, no change

Edge case: enter id the does not exist:

Reasoning: should not crash, should just go back to menu

Input: id: 12222

Result: user not found! This is expected result

### 3: delete book

`` Happy path, enter id that exists:

Input: id 1001

Result: user deleted sucessfully, expected result

Edge case: id does not exist

Input: id: 12344321

Result: user not found, expected result

### 4: list users:

Happy path:

Result: Lists books sucessfully

### 5: back

Happy path:

Result: goes back successfully

### 6: any other input

No error message, but does repeat menu

## 4. Borrow books

Happy path:

Input: id: 1 User id:1

Result: book borrowed successfully

Edge case 1:

## 5. Return Book

## 6. List Borrowed Books

## 7. Exit