Test results

Normal operation test

1. BOOK ENTRY 2. BOOK MESSAGE 3. BOOK D 4. READER ENTRY 5. READER MESSAGE 6. BOOK D 7. BOOK RETURN 8. BORROW MESSAGE 9. BOOK C	
0. QUIT	
PLEASE ENTER OPERATION ID: 1 STARTING THE BOOKENTRY FUNCTION PLEASE ENTER THE BOOK ID: 0000002	
PLEASE ENTER THE BOOK NAME: MITHI13 PLEASE ENTER THE AUTHOR: Unknown PLEASE ENTER THE PRICE:	entry
36.6 PLEASE ENTER THE YEAR: 2021 PLEASE ENTER THE PUBLISHER: XJTLU OPERATION SUCCESSFULLY COMPLETED	
BOOK SYSTEM	

			6. BOOK BORROV 9. BOOK COUNT 0. QUIT		
PLEASE ENTI 2	ER OPERATION	ID:	Test	book me	essage
STARTING T	HE BOOKMESSAG	E FUNCTION			
bID		author	r price	e year	publisher
2345214	C++ norg	aem	23 4	2020	X ITI II

	BOOK SYSTEM	
4. READER ENTRY	2. BOOK MESSAGE 5. READER MESSAGE 8. BORROW MESSAGE	6. BOOK BORROW
 PLEASE ENTER OPERA	TION ID:	at back dalata

STARTING THE DELETEBOOK FUNCTION
PLEASE ENTER THE BOOK ID THAT YOU WISH TO DELETE:
2345214 PERATION SUCCESSFULLY COMPLETED

	BOOK SYSTEM	
4. READER ENTRY	2. BOOK MESSAGE 5. READER MESSAGE 8. BORROW MESSAGE	6. BOOK BORROW
 PLEASE ENTER OPERA 4	TION ID:	

STARTING THE READERENTRY FUNCTION PLEASE ENTER THE STUDENT ID: 00000004

00000004 PLEASE ENTER THE NAME: Daniel PLEASE ENTER THE GENDER: 1 for Male, 2 for Female

PLEASE ENTER THE EMAIL: PLEASE ENTER THE EMAIL: Daniel@xjtlu.edu.cn PLEASE ENTER THE COLLEGE: XJTLU OPERATION SUCCESSFULLY COMPLETED

	BOOK SYSTEM	
4. READER ENTRY	2. BOOK MESSAGE 5. READER MESSAGE 8. BORROW MESSAGE	6. BOOK BORROW
DI DACE ENTED ODEDA	TION ID.	

<u>Test reader message</u>

Test reader entry

email college Zhiqing. Du21@xjtlu. edu. cnXJTLU Mike@xjtlu. edu. cnXJTLU Nancy@xjtlu. edu. cnXJTLU Linda@xjtlu. edu. cnXJTLU Daniel@xjtlu. edu. cnXJTLU

-BOOK SYSTEM-1. BOOK ENTRY
4. READER ENTRY
7. BOOK RETURN2. BOOK MESSAGE
5. READER MESSAGE
8. BORROW MESSAGE
8. BORROW MESSAGE
9. BOOK COUNT3. BOOK DELETE
6. BOOK BORROW
9. BOOK COUNT 0. QUIT PLEASE ENTER OPERATION ID: Test book borrow STARTING THE BORROWBOOK FUNCTION
PLEASE ENTER THE BOOK ID THAT YOU WISH TO BORROW: PLEASE ENTER THE STUDENT ID: 0000001 OPERATION SUCCESSFULLY COMPLETED

	BOOK SYSTEM
	1. BOOK ENTRY 2. BOOK MESSAGE 3. BOOK DELETE 4. READER ENTRY 5. READER MESSAGE 6. BOOK BORROW 7. BOOK RETURN 8. BORROW MESSAGE 9. BOOK COUNT 0. QUIT
F 7	Test book return
S	STARTING THE RETURNBOOK FUNCTION
F	PLEASE ENTER THE BOOK ID THAT YOU WISH TO RETURN:
	000001
ſ	PERATION SUCCESSFULLY COMPLETED

	BOOK SYSTEM	
4. READER ENTRY	2. BOOK MESSAGE 5. READER MESSAGE 8. BORROW MESSAGE	6. BOOK BORROW
 PLEASE ENTER OPERA 8	TION ID: <u>Test b</u>	ook message
STARTING THE BORRO BOOK ID 1 2 OPERATION SUCCESSF	BORROW is not is not	STATUS borrowed borrowed

	BOOK SYSTEM	
1. BOOK ENTRY 4. READER ENTRY 7. BOOK RETURN	2. BOOK MESSAGE 5. READER MESSAGE 8. BORROW MESSAGE	3. BOOK DELETE 6. BOOK BORROW 9. BOOK COUNT 0. QUIT
PLEASE ENTER OPERA' 9	ΓΙΟΝ ID: <u>Test b</u>	ook count
STARTING THE COUNTI BOOKS IN LIBRARY 2 OPERATION SUCCESSFI	BORROWED BOOKS 0	TOTAl AMOUNT 2

1. BOOK ENTRY 4. READER ENTRY 7. BOOK RETURN	2. BOOK MESSAGE 5. READER MESSAGE 8. BORROW MESSAGE		
PLEASE ENTER OPERA 0 SYSTEM CLOSED	TION ID:		Test book quit
E:\c++\Project5\x6 要在调试停止时自动 按任意键关闭此窗口	4\Debug\Project5. e 关闭控制台,请启用 · · ·	xe(进程 20704)已 "工具"->"选项"	退出,代码为 0。 -> "调试"> "调试停止时自动关闭控制台"。

Abnormal operation test

```
1. BOOK ENTRY 2. BOOK MESSAGE 3. BOOK DELETE
4. READER ENTRY 5. READER MESSAGE 6. BOOK BORROW
7. BOOK RETURN 8. BORROW MESSAGE 9. BOOK COUNT
0. QUIT

PLEASE ENTER OPERATION ID:
hello
ERROR INVALID INPUT
Please enter a valid operation ID:
1
STARTING THE BOOKENTRY FUNCTION
PLEASE ENTER THE BOOK ID:
ERROR INVALID INPUT
Please enter a numerical value:
```

If user don't choose a valid operation ID.

When user enter book entry

	BOOK SYSTEM	
4. READER ENTRY	2. BOOK MESSAGE 5. READER MESSAGE 8. BORROW MESSAGE	6. BOOK BORROW
PLEASE ENTER OPERATE STARTING THE BOOKEN PLEASE ENTER THE BO BEROR INVALID INPUT Please enter a nume 2345214 ERROR BOOK ID ALREA Please enter a non-	NTRY FUNCTION DOK ID: Ferical value: ADY EXISTS	

If user doesn't input number, the system will report error.

If user input an existent ID, the system will report error.

PLEASE ENTER THE BOOK NAME:
DTS 102
PLEASE ENTER THE AUTHOR:
Unknown
PLEASE ENTER THE PRICE:
hello
ERROR INVALID INPUT
Please enter a numerical value:

If user doesn't input a number when enters the price, the system will report error.

When user enter book delete

```
-BOOK SYSTEM
                       2. BOOK MESSAGE
5. READER MESSAGE
8. BORROW MESSAGE
   1. BOOK ENTRY
                                              3. BOOK DELETE
   4. READER ENTRY
7. BOOK RETURN
                                             6. BOOK BORROW
9. BOOK COUNT
                                              0. QUIT
PLEASE ENTER OPERATION ID:
STARTING THE DELETEBOOK FUNCTION
PLEASE ENTER THE BOOK ID THAT YOU WISH TO DELETE:
hello
ERROR INVALID INPUT
Please enter a numerical value:
1234567
ERROR BOOK ID DOES NOT EXIST
Please enter an existent ID:
```

If user doesn't input number, the system will report error.

If user input a non-existent ID, the system will report error.

If user doesn't input a number when enters student ID, the system will report error.

If user input an existent student ID, the system will display student ID already exists.

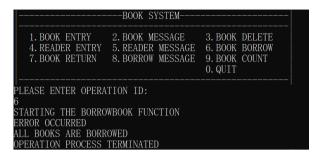
-BOOK SYSTEM-2. BOOK MESSAGE 3. BOOK DELETE 1. BOOK ENTRY 5. READER MESSAGE 8. BORROW MESSAGE 6. BOOK BORROW 9. BOOK COUNT 4. READER ENTRY 7. BOOK RETURN 0. QUIT LEASE ENTER OPERATION ID: STARTING THE READERENTRY FUNCTION PLEASE ENTER THE STUDENT ID: CRROR INVALID INPUT PLEASE ENTER THE NAME: Nancy PLEASE ENTER THE GENDER: 1 for Male, 2 for Female emale CRROR INVALID INPUT lease enter 1 for Male or 2 for Female: PLEASE ENTER THE EMAIL: 123456 ERROR INVALID INPUT

Please enter a valid email address:

If user doesn't input a 1or 2 when enter the gender, the system will report error.

If user doesn't input a email when enters the email, the system will report error.

When user enter borrow book



If all books have been borrowed, the system will display all books are borrowed.

-BOOK SYSTEM-2. BOOK MESSAGE 1. BOOK ENTRY 3. BOOK DELETE 5. READER MESSAGE 8. BORROW MESSAGE 4. READER ENTRY 6. BOOK BORROW 9. BOOK COUNT 7. BOOK RETURN 0. QUIT PLEASE ENTER OPERATION ID: STARTING THE BORROWBOOK FUNCTION PLEASE ENTER THE BOOK ID THAT YOU WISH TO BORROW: CRROR INVALID INPUT lease enter a numerical value: 0000002 ERROR BOOK ID DOES NOT EXIST

If user doesn't input number, the system will report error.

If user input a existent ID, the system will report error.

1. BOOK ENTRY 2. BOOK MESSAGE 3. BOOK DELETE
4. READER ENTRY 5. READER MESSAGE 6. BOOK BORROW
7. BOOK RETURN 8. BORROW MESSAGE 9. BOOK COUNT
0. QUIT

PLEASE ENTER OPERATION ID:
6
STARTING THE BORROWBOOK FUNCTION
PLEASE ENTER THE BOOK ID THAT YOU WISH TO BORROW:
hello
ERROR INVALID INPUT
Please enter a numerical value:
0000002
ERROR BOOK ID DOES NOT EXIST
Please enter an existent ID:
0000001
ERROR BOOK IS ALREADY BORROWED
Please enter another book ID:

If the book user wants to borrow have been borrowed, the system will display the book is already borrowed.

Please enter another book ID: 2345214 PLEASE ENTER THE STUDENT ID: hello ERROR INVALID INPUT Please enter a numerical value:

PLEASE ENTER THE STUDENT ID: 0000003 ERROR STUDENT ID DOES NOT EXIST Please enter 1 to input an existent ID or 2 to register new reader: After user input an existent ID, user needs to enter the student ID. If user doesn't input a number or inputs a non-existent student ID, the system will report error.

```
ERROR STUDENT ID DOES NOT EXIST
Please enter 1 to input an existent ID or 2 to register new reader
1
0000001
OPERATION SUCCESSFULLY COMPLETED

ERROR STUDENT ID DOES NOT EXIST
Please enter 1 to input an existent ID or 2 to register new reader:
2
STARTING THE REGISTRATION FUNCTION FOR STUDENT ID: 3
PLEASE ENTER THE NAME:
Linda
PLEASE ENTER THE GENDER:
1 for Male, 2 for Female
2
PLEASE ENTER THE EMAIL:
Linda@xjtlu.edu.en
PLEASE ENTER THE COLLEGE:
XJTLU
```

And then, user can choose 1 to input an existent student ID or choose 2 to register a new student ID.

When user enter return book

```
1. BOOK ENTRY 2. BOOK MESSAGE 3. BOOK DELETE
4. READER ENTRY 5. READER MESSAGE 6. BOOK BORROW
7. BOOK RETURN 8. BORROW MESSAGE 9. BOOK COUNT
0. QUIT

PLEASE ENTER OPERATION ID:
7
STARTING THE RETURNBOOK FUNCTION
PLEASE ENTER THE BOOK ID THAT YOU WISH TO RETURN:
hello
ERROR INVALID INPUT
Please enter a numerical value:
```

If user doesn't input number, the system will report error.

```
1. BOOK ENTRY 2. BOOK MESSAGE 3. BOOK DELETE
4. READER ENTRY 5. READER MESSAGE 6. BOOK BORROW
7. BOOK RETURN 8. BORROW MESSAGE 9. BOOK COUNT
O. QUIT

PLEASE ENTER OPERATION ID:
7
STARTING THE RETURNBOOK FUNCTION
PLEASE ENTER THE BOOK ID THAT YOU WISH TO RETURN:
hello
ERROR INVALID INPUT
Please enter a numerical value:
0000002
ERROR BOOK ID DOES NOT EXIST
Please enter an existent ID:
```

The book user wants to return doesn't exist, the system will display the book ID does not exist.

```
1. BOOK ENTRY 2. BOOK MESSAGE 3. BOOK DELETE
4. READER ENTRY 5. READER MESSAGE 6. BOOK BORROW
7. BOOK RETURN 8. BORROW MESSAGE 9. BOOK COUNT
0. QUIT

PLEASE ENTER OPERATION ID:
7
STARTING THE RETURNBOOK FUNCTION
PLEASE ENTER THE BOOK ID THAT YOU WISH TO RETURN:
0000001
ERROR BOOK IS NOT BORROWED
Please enter another book ID:
```

The book user wants to return is not borrowed, the system will display the book is not borrowed.