

Removing compiled files...

Compiling...

Running the program....

```
./hw10
```

													\	\	/	/	\
													\	\			
		/	\	'	'	\	/	\	\	/	/	\	'		/	/	
		(\	v	v	/	(<	/	/	
		\	/				\	/	\	/	\			\	/		\

1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9: 1

Enter the ID of the student: 6666

Cemal Bolat borrowed the following books

The Grapes of Wrath

The Great Gatsby

1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9: 9

Exiting...

=====
[SUCCESS] Completed tests....

cbolat@DESKTOP-EIJM40P:/mnt/c/Users/cemal/Desktop/hw10_1/hw10 (1)/hw10\$ cat student.txt

Name,ID,Borrowed Book

Cemal Bolat,6666,The Grapes of Wrath

Cemal Bolat,6666,The Great Gatsby

Hasan Bolat,1234,The Lord of the Rings

cbolat@DESKTOP-EIJM40P:/mnt/c/Users/cemal/Desktop/hw10_1/hw10 (1)/hw10\$

ISBN	Title	Author	Publication Year	Reserved Status
1	To Kill a Mockingbird	Harper Lee	1960	0
2	The Great Gatsby	F. Scott Fitzgerald	1925	1
3	The Grapes of Wrath	John Steinbeck	1939	1
4	The Catcher in the Rye	J.D. Salinger	1951	0
5	To Kill a Mockingbird	Harper Lee	1960	0
6	The Color Purple	Alice Walker	1982	0
7	1984	George Orwell	1949	0
9	Beloved	Toni Morrison	2019	0
10	The Lord of the Rings	J.R.R. Tolkien	1954	1
11	The Hobbit	J.R.R. Tolkien	1937	0
12	Harry Potter and the Sorcerer's Stone	J.K. Rowling	1997	0
13	Harry Potter and the Chamber of Secrets	J.K. Rowling	1998	0
14	Harry Potter and the Prisoner of Azkaban	J.K. Rowling	1999	0
15	ZARTINGEN	J.K. Rowling	2000	0
16	Harry Potter and the Order of the Phoenix	J.K. Rowling	2003	0
17	The Alchemist	J.K. Rowling	2000	0

Homework 10

1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9: 2

Enter ISBN: 18

Enter Title: Kasagi

Enter Author: Omer Seyfettin

Enter Publication Year: 1918

Enter 0 to FIFO 1 TO LIFO : 0

1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9: 9

Exiting...

```
cbolat@DESKTOP-EIJM40P:/mnt/c/Users/cemal/Desktop/hw10_1/hw10 (1)/hw10$ cat book.txt
```

```
ISBN,Title,Author,Publication Year,Reserved Status
```

```
1,To Kill a Mockingbird,Harper Lee,1960,0
2,The Great Gatsby,F. Scott Fitzgerald,1925,1
3,The Grapes of Wrath,John Steinbeck,1939,1
4,The Catcher in the Rye,J.D. Salinger,1951,0
5,To Kill a Mockingbird,Harper Lee,1960,0
6,The Color Purple,Alice Walker,1982,0
7,1984,George Orwell,1949,0
9,Beloved,Toni Morrison,2019,0
10,The Lord of the Rings,J.R.R. Tolkien,1954,1
11,The Hobbit,J.R.R. Tolkien,1937,0
12,Harry Potter and the Sorcerer's Stone,J.K. Rowling,1997,0
13,Harry Potter and the Chamber of Secrets,J.K. Rowling,1998,0
14,Harry Potter and the Prisoner of Azkaban,J.K. Rowling,1999,0
15,ZARTINGEN,J.K. Rowling,2000,0
16,Harry Potter and the Order of the Phoenix,J.K. Rowling,2003,0
17,The Alchemist,J.K. Rowling,2000,0
18,Kasagi,Omer Seyfettin,1918,0
```

```
cbolat@DESKTOP-EIJM40P:/mnt/c/Users/cemal/Desktop/hw10_1/hw10 (1)/hw10$
```

1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9: 2

Enter ISBN: 0

Enter Title: Romeo ve juliet

Enter Author: Sheakespeare

Enter Publication Year: 1560

Enter 0 to FIFO 1 TO LIFO : 1

1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9: 9

Exiting...

=====

```
cbolat@DESKTOP-EIJM40P:/mnt/c/Users/cemal/Desktop/hw10_1/hw10 (1)/hw10$ cat book.txt
```

```
ISBN,Title,Author,Publication Year,Reserved Status
```

```
0,Romeo ve juliet,Sheakespeare,1560,0
```

```
1,To Kill a Mockingbird,Harper Lee,1960,0
```

```
2,The Great Gatsby,F. Scott Fitzgerald,1925,1
```

```
3,The Grapes of Wrath,John Steinbeck,1939,1
```

```
4,The Catcher in the Rye,J.D. Salinger,1951,0
```

```
5,To Kill a Mockingbird,Harper Lee,1960,0
```

```
6,The Color Purple,Alice Walker,1982,0
```

```
7,1984,George Orwell,1949,0
```

```
9,Beloved,Toni Morrison,2019,0
```

```
10,The Lord of the Rings,J.R.R. Tolkien,1954,1
```

```
11,The Hobbit,J.R.R. Tolkien,1937,0
```

```
12,Harry Potter and the Sorcerer's Stone,J.K. Rowling,1997,0
```

```
13,Harry Potter and the Chamber of Secrets,J.K. Rowling,1998,0
```

```
14,Harry Potter and the Prisoner of Azkaban,J.K. Rowling,1999,0
```

```
15,ZARTİNGEN,J.K. Rowling,2000,0
```

```
16,Harry Potter and the Order of the Phoenix,J.K. Rowling,2003,0
```

```
17,The Alchemist,J.K. Rowling,2000,0
```

```
18,Kasagi,Omer Seyfettin,1918,0
```

1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9: 3

Enter the ISBN of the book you want to delete: 0

1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9: 3

Enter the ISBN of the book you want to delete: 18

1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9: 9

Exiting...

```
cbolat@DESKTOP-EIJM40P:/mnt/c/Users/cemal/Desktop/hw10_1/hw10 (1)/hw10$ cat book.txt
```

```
ISBN,Title,Author,Publication Year,Reserved Status
```

```
1,To Kill a Mockingbird,Harper Lee,1960,0
```

```
2,The Great Gatsby,F. Scott Fitzgerald,1925,1
```

```
3,The Grapes of Wrath,John Steinbeck,1939,1
```

```
4,The Catcher in the Rye,J.D. Salinger,1951,0
```

```
5,To Kill a Mockingbird,Harper Lee,1960,0
```

```
6,The Color Purple,Alice Walker,1982,0
```

```
7,1984,George Orwell,1949,0
```

```
9,Beloved,Toni Morrison,2019,0
```

```
10,The Lord of the Rings,J.R.R. Tolkien,1954,1
```

```
11,The Hobbit,J.R.R. Tolkien,1937,0
```

```
12,Harry Potter and the Sorcerer's Stone,J.K. Rowling,1997,0
```

```
13,Harry Potter and the Chamber of Secrets,J.K. Rowling,1998,0
```

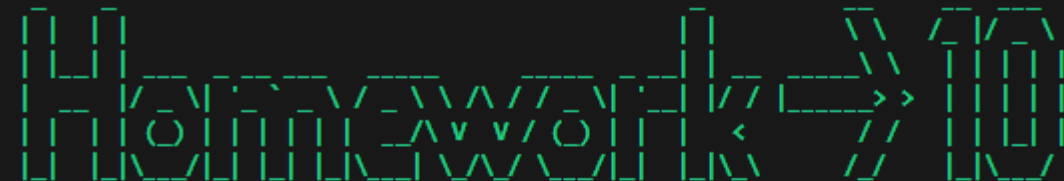
```
14,Harry Potter and the Prisoner of Azkaban,J.K. Rowling,1999,0
```

```
15,ZARTINGEN,J.K. Rowling,2000,0
```

```
16,Harry Potter and the Order of the Phoenix,J.K. Rowling,2003,0
```

```
17,The Alchemist,J.K. Rowling,2000,0
```

./hw10



- 1. Students Borrowed Books
- 2. Add Book
- 3. Delete Book
- 4. Update Book
- 5. Filter and Sort Books
- 6. Reverse Book List
- 7. Search Books
- 8. Borrow and Return Books
- 9. Exit

Enter a number from 1 to 9: 4
Enter the ISBN of the book you want to update: 1
Enter the feature you want to update
>> 1. Title, 2. Author, 3. Publication Year <<
>> 1
Enter the new title: aAaAaAaA

- 1. Students Borrowed Books
- 2. Add Book
- 3. Delete Book
- 4. Update Book
- 5. Filter and Sort Books
- 6. Reverse Book List
- 7. Search Books
- 8. Borrow and Return Books
- 9. Exit

Enter a number from 1 to 9: 9

Exiting...

```
cholat@DESKTOP-EIJM40P:/mnt/c/Users/cemal/Desktop/hw10_1/hw10 (1)/hw10$ cat book.txt
```

```
ISBN,Title,Author,Publication Year,Reserved Status
```

```
1,aAaAaAaAa,Harper Lee,1960,0
2,The Great Gatsby,F. Scott Fitzgerald,1925,1
3,The Grapes of Wrath,John Steinbeck,1939,1
4,The Catcher in the Rye,J.D. Salinger,1951,0
5,To Kill a Mockingbird,Harper Lee,1960,0
6,The Color Purple,Alice Walker,1982,0
7,1984,George Orwell,1949,0
9,Beloved,Toni Morrison,2019,0
10,The Lord of the Rings,J.R.R. Tolkien,1954,1
11,The Hobbit,J.R.R. Tolkien,1937,0
12,Harry Potter and the Sorcerer's Stone,J.K. Rowling,1997,0
13,Harry Potter and the Chamber of Secrets,J.K. Rowling,1998,0
14,Harry Potter and the Prisoner of Azkaban,J.K. Rowling,1999,0
15,ZARTINGEN,J.K. Rowling,2000,0
16,Harry Potter and the Order of the Phoenix,J.K. Rowling,2003,0
17,The Alchemist,J.K. Rowling,2000,0
```

1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9: 5

Enter the feature you want to filter

>> 0. Author 1. Publication Year <<

>> 0

Enter the filter << case-sensitive >> : J.R.R. Tolkien

Enter the feature you want to sort

>> 0. Title 1. Author 2. Publication Year <<

>> 2

ISBN: 11

Title: The Hobbit

Author: J.R.R. Tolkien

Publication Year: 1937

Reserved Status: 0

ISBN: 10

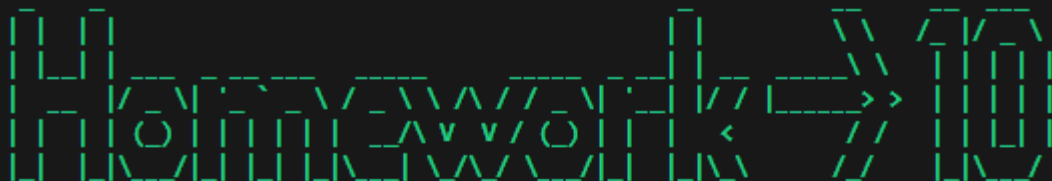
Title: The Lord of the Rings

Author: J.R.R. Tolkien

Publication Year: 1954

Reserved Status: 1

./hw10



1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9: 6

ISBN: 17

Title: The Alchemist

Author: J.K. Rowling

Publication Year: 2000

Reserved Status: 0

ISBN: 16

Title: Harry Potter and the Order of the Phoenix

Author: J.K. Rowling

Publication Year: 2003

Reserved Status: 0

ISBN: 15

Title: ZARTINGEN

Author: J.K. Rowling

Publication Year: 2000

Reserved Status: 0

ISBN: 4
Title: The Catcher in the Rye
Author: J.D. Salinger
Publication Year: 1951
Reserved Status: 0

ISBN: 3
Title: The Grapes of Wrath
Author: John Steinbeck
Publication Year: 1939
Reserved Status: 1

ISBN: 2
Title: The Great Gatsby
Author: F. Scott Fitzgerald
Publication Year: 1925
Reserved Status: 1

ISBN: 1
Title: aAaAaAaAa
Author: Harper Lee
Publication Year: 1960
Reserved Status: 0

```
cbolat@DESKTOP-EIJM40P:/mnt/c/Users/cemal/Desktop/hw10_1/hw10 (1)/hw10$ cat book.txt
```

```
ISBN,Title,Author,Publication Year,Reserved Status
```

```
17,The Alchemist,J.K. Rowling,2000,0
```

```
16,Harry Potter and the Order of the Phoenix,J.K. Rowling,2003,0
```

```
15,ZARTINGEN,J.K. Rowling,2000,0
```

```
14,Harry Potter and the Prisoner of Azkaban,J.K. Rowling,1999,0
```

```
13,Harry Potter and the Chamber of Secrets,J.K. Rowling,1998,0
```

```
12,Harry Potter and the Sorcerer's Stone,J.K. Rowling,1997,0
```

```
11,The Hobbit,J.R.R. Tolkien,1937,0
```

```
10,The Lord of the Rings,J.R.R. Tolkien,1954,1
```

```
9,Beloved,Toni Morrison,2019,0
```

```
7,1984,George Orwell,1949,0
```

```
6,The Color Purple,Alice Walker,1982,0
```

```
5,To Kill a Mockingbird,Harper Lee,1960,0
```

```
4,The Catcher in the Rye,J.D. Salinger,1951,0
```

```
3,The Grapes of Wrath,John Steinbeck,1939,1
```

```
2,The Great Gatsby,F. Scott Fitzgerald,1925,1
```

```
1,aAaAaAaAa,Harper Lee,1960,0
```

1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9: 7

Search by 0. ISBN 1. Author 2. Title

Enter a number from 0 to 2: 0

Enter the search term: 2

ISBN: 2

Title: The Great Gatsby

Author: F. Scott Fitzgerald

Publication Year: 1925

Reserved Status: 1

1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9: 7

Search by 0. ISBN 1. Author 2. Title

Enter a number from 0 to 2: 1

Enter the search term: Alice Walker

ISBN: 6

Title: The Color Purple

Author: Alice Walker

Publication Year: 1982

Reserved Status: 0

1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9:

1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9: 8

0. Borrow 1. Return

Enter a number from 0 to 1: 0

Enter the ISBN of the book you want to borrow: 1

Enter name: Ela Bolat

Enter ID: 77

Book successfully borrowed

1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9: 1

Enter the ID of the student: 77

Ela Bolat borrowed the following books

aAaAaAaAa

1. Students Borrowed Books
2. Add Book
3. Delete Book
4. Update Book
5. Filter and Sort Books
6. Reverse Book List
7. Search Books
8. Borrow and Return Books
9. Exit

Enter a number from 1 to 9: 9

Exiting...

=====

[SUCCESS] Completed tests....

cbolat@DESKTOP-EIJM40P:/mnt/c/Users/cemal/Desktop/hw10_1/hw10 (1)/hw10\$ cat student.txt

Name,ID,Borrowed Book

Cemal Bolat,6666,The Grapes of Wrath

Cemal Bolat,6666,The Great Gatsby

Hasan Bolat,1234,The Lord of the Rings

Ela Bolat,77,aAaAaAaAa

cbolat@DESKTOP-EIJM40P:/mnt/c/Users/cemal/Desktop/hw10_1/hw10 (1)/hw10\$

```
cbolat@DESKTOP-EIJM40P:/mnt/c/Users/cemal/Desktop/hw10_1/hw10 (1)/hw10$ cat book.txt
```

```
ISBN,Title,Author,Publication Year,Reserved Status
```

```
1,aAaAaAaAa,Harper Lee,1960,1
```

```
2,The Great Gatsby,F. Scott Fitzgerald,1925,1
```

```
3,The Grapes of Wrath,John Steinbeck,1939,1
```

```
4,The Catcher in the Rye,J.D. Salinger,1951,0
```

```
5,To Kill a Mockingbird,Harper Lee,1960,0
```

```
6,The Color Purple,Alice Walker,1982,0
```

```
7,1984,George Orwell,1949,0
```

```
9,Beloved,Toni Morrison,2019,0
```

```
10,The Lord of the Rings,J.R.R. Tolkien,1954,1
```

```
11,The Hobbit,J.R.R. Tolkien,1937,0
```

```
12,Harry Potter and the Sorcerer's Stone,J.K. Rowling,1997,0
```

```
13,Harry Potter and the Chamber of Secrets,J.K. Rowling,1998,0
```

```
14,Harry Potter and the Prisoner of Azkaban,J.K. Rowling,1999,0
```

```
15,ZARTINGEN,J.K. Rowling,2000,0
```

```
16,Harry Potter and the Order of the Phoenix,J.K. Rowling,2003,0
```

```
17,The Alchemist,J.K. Rowling,2000,0
```

- 1. Students Borrowed Books
- 2. Add Book
- 3. Delete Book
- 4. Update Book
- 5. Filter and Sort Books
- 6. Reverse Book List
- 7. Search Books
- 8. Borrow and Return Books
- 9. Exit

Enter a number from 1 to 9: 8
0. Borrow 1. Return
Enter a number from 0 to 1: 1
Enter the ISBN of the book you want to return : 1

Book successfully returned

- 1. Students Borrowed Books
- 2. Add Book
- 3. Delete Book
- 4. Update Book
- 5. Filter and Sort Books
- 6. Reverse Book List
- 7. Search Books
- 8. Borrow and Return Books
- 9. Exit

Enter a number from 1 to 9: 9

Exiting...

```
=====
[SUCCESS] Completed tests....
cbolat@DESKTOP-EIJM40P:/mnt/c/Users/cemal/Desktop/hw10_1/hw10 (1)/hw10$ cat student.txt
Name,ID,Borrowed Book
Cemal Bolat,6666,The Grapes of Wrath
Cemal Bolat,6666,The Great Gatsby
Hasan Bolat,1234,The Lord of the Rings
cbolat@DESKTOP-EIJM40P:/mnt/c/Users/cemal/Desktop/hw10_1/hw10 (1)/hw10$ cat book.txt
ISBN,Title,Author,Publication Year,Reserved Status
1,aAaAaAaAa,Harper Lee,1960,0
2,The Great Gatsby,F. Scott Fitzgerald,1925,1
3,The Grapes of Wrath,John Steinbeck,1939,1
4,The Catcher in the Rye,J.D. Salinger,1951,0
5,To Kill a Mockingbird,Harper Lee,1960,0
6,The Color Purple,Alice Walker,1982,0
7,1984,George Orwell,1949,0
9,Beloved,Toni Morrison,2019,0
10,The Lord of the Rings,J.R.R. Tolkien,1954,1
11,The Hobbit,J.R.R. Tolkien,1937,0
12,Harry Potter and the Sorcerer's Stone,J.K. Rowling,1997,0
```