



Examples to test your final project

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Here are some examples to test your code with. The smaller ones are written out. The larger example has files you can download and rename to use.

IF asked if a person can borrow a book without the number of days given you may assume they are asking to borrow it for lesser than 7 days.

booklist.txt

```
Algorithm Design, Skeina#3#True
```

```
Eye of the world, Jordan#1#False
```

Test 1: Given example in project description.

librarylog.txt

```
1#Algorithm Design, Skeina#Ishan Behoora#6
```

```
2#Eye of the world, Jordan#Jerome Guth#5
```

```
3#The count of Monte Cristo, Dumas#False
```

```
3#Algorithm Design,Skeina#Adam Smith#3
```

```
5#Algorithm Design,Skeina#Adam Smith#RET
```

```
5#Eye of the world, Jordan#Jerome Guth#RET
```

```
9#Algorithm Design, Skeina#Ishan Behoora#RET
```

```
PAY#9#Ishan Behoora#20
```

```
10
```

Sample questions for day 10:

Can "Ishan Behoora" borrow "Algorithm Design, Skeina"? Yes

Can "Jerome Guth" borrow "Algorithm Design, Skeina"? Yes

Can "Piotr Berman" return "Algorithm Design, Skeina"? No

List students with most fines?

Ishan Behoora has fine 10

List top three book usage?

Algorithm Design, Skeina with usage 37.03703703703704

Eye of the world, Jordan with usage 33.33333333333333

The count of Monte Cristo, Dumas with usage 0.0

Test 2: Handle added books and fines

librarylog.txt

1#Algorithm Design, Skeina#Ishan Behoora#6

2#Eye of the world, Jordan#Jerome Guth#3
3#The count of Monte Cristo, Dumas#False
3#The count of Monte Cristo, Dumas#Adam Smith#10
6#Eye of the world, Jordan#Jerome Guth#RET
7#Algorithm Design, Skeina#Ishan Behoora#RET
9#The count of Monte Cristo, Dumas#Adam Smith#RET
10

Sample questions for day 10:

List top three book usage?

The count of Monte Cristo, Dumas with usage 85.71428571428571

Eye of the world, Jordan with usage 44.44444444444444

Algorithm Design, Skeina with usage 22.22222222222222

List students with most fines?

Jerome Guth has fine 5

Test 3: Handle long gaps and paid fines

librarylog.txt

```
1#Algorithm Design, Skeina#Ishan Behoora#6
2#Eye of the world, Jordan#Jerome Guth#3
3#The count of Monte Cristo, Dumas#False
3#The count of Monte Cristo, Dumas#Adam Smith#10
6#Eye of the world, Jordan#Jerome Guth#RET
7#Algorithm Design, Skeina#Ishan Behoora#RET
9#The count of Monte Cristo, Dumas#Adam Smith#RET
PAY#11#Jerome Guth#5
25
```

Sample questions for day 25:

List top two book usage?

The count of Monte Cristo, Dumas with usage 27.27272727272727

Eve of the world. Jordan with usage 16.666666666666664

List top 3 students with most fines?

<None>

Test 4: Handle pending returns

librarylog.txt

1#Algorithm Design, Skeina#Ishan Behoora#6

1#Algorithm Design, Skeina#Karl Vreen#5

2#Eye of the world, Jordan#Jerome Guth#5

3#The count of Monte Cristo, Dumas#False

3#The count of Monte Cristo, Dumas#Adam Smith#10

5#Eye of the world, Jordan#Jerome Guth#RET

9#Algorithm Design, Skeina#Ishan Behoora#RET

PAY#9#Ishan Behoora#20

10

Sample questions for day 10:

List top two book usage?

The count of Monte Cristo, Dumas with usage 100.0

Algorithm Design, Skeina with usage 62.96296296296296

List top 2 students with most fines?

Karl Vreen has fine 60

Ishan Behoora has fine 10

Test 5: Handle larger files

Library Log : use uploaded libraryloglarge.txt by renaming it to librarylog.

Book List: use uploaded booklargelist.txt by renaming it to booklist.txt

Can "Sunny P" borrow "Algorithm Design, Skeina"? No

Can "Ishan B" borrow "Algorithm Design, Skeina"? Yes

Can "Rahul Y" return "Algorithm Design, Skeina"? No

Can "Abhay K" return "Computational Geometry, DeBerg"? Yes

Can "Abhay K" return "Harry potter, Rowling"? No

day 206:

List top five book usage?

Computational Geometry, DeBerg with usage 87.5

Eye of the world, Jordan with usage 18.048780487804876

Knife of dreams, Jordan with usage 8.780487804878048

The shadow rising, Jordan with usage 8.292682926829269

The fires of heaven, Jordan with usage 7.317073170731707

List top 2 students with most fines?

Sunny P has fine 60

Abhay K has fine 15

[booklargelist.txt](#) 

[libraryloglarge.txt](#) 

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Unread

