# Test Cases to Include

You need to submit a typescript of your homework assignment along with the source code and the report. Your typescript needs to contain the compilation and the execution of your program. The script command will start a typescript that records everything that is being displayed on the terminal into a log file. Here is an example with a C++ program, but you can run the appropriate compiler for the language you use instead:

username@turing:~$ script   
username@turing:~$ g++ -Wall <myprogram>.cpp –o <myprogram>  
username@turing:~$ ./<myprogram> # run and test your program one or more times   
username@turing:~$ exit   
username@turing:~$ cat typescript # see what is in it   
username@turing:~: mv typescript hw1.script # rename file if you want

## Testing Create Database

username@turing:~$ ls –lt # should show .csv file but not database files  
Create “Parks”   
username@turing:~$ ls –lt # should show database files

## Testing Open and Display Record (Searching by PASSENGER\_ID)

Note: You should Display record by the PASSENGER\_ID, not by the recordNum. You should call binarySearch to do that.

Display complete record for PASSENGER\_ID: 100 (should fail)

Open Database (.data file)

Display complete record for PASSENGER\_ID: 2

Display complete record for PASSENGER\_ID: 3

Display complete record for PASSENGER\_ID: 16

Display complete record for PASSENGER\_ID: 20   
Display complete record for PASSENGER\_ID: -1 (should fail)

## Testing Update

Display complete record for PASSENGER\_ID: 2   
Update age for PASSENGER\_ID 2 from 38 to 34   
Display updated record for PASSENGER\_ID: 2

Display complete record for PASSENGER\_ID : 3

Update PASSENGER\_ID from 3 to 10 (should fail, cannot update key)

Display complete record for PASSENGER\_ID: 3 (should show old record)

Display complete record for PASSENGER\_ID: 20   
Update DATE\_OF\_PURCHASE for PASSENGER\_ID 20 from 1/5/1912 to 1/20/1912  
Display updated record for PASSENGER\_ID: 20

## Testing Delete

Delete record for PASSENGER\_ID: 2

Display PASSENGER\_ID: 2 (Display default(empty) values)

Delete PASSENGER\_ID: 12

Display PASSENGER\_ID: 12 (Display default(empty) values)

Delete PASSENGER\_ID: 100 (should fail, No record found)

## Testing Create Report

Create report (Should display the first 10 non-deleted person in the data file)

## Testing Add and Update and Delete

Add record passengerId= 100, fname= “Sam”, lname= “Gauch”, age = “44”, ticketNum = “PA 1012”, fare = “43.33”, date = “2/5/1912”

Display complete record for PASSENGER\_ID: 100

Update age for PASSENGER\_ID 100 from 44 to 56

Display complete record for PASSENGER\_ID: 100

**BONUS (10%):**

Add record passengerId= 1, fname= “Tim”, lname= “Cook”, age = “74”, ticketNum = “PA 1018”, fare = “23.33”, date = “3/5/1912”

Display complete record for PASSENGER\_ID: 1

Update age for PASSENGER\_ID 1 from 74 to 46

Display complete record for PASSENGER\_ID: 1

## Testing Close Database

Close  
Display complete record for PASSENGER\_ID: 2 (should fail)

## Quit