Homework 6b

Test Plan

Program Menu:

What would you like to do?

0: Add a new record 1: Modify a record 2: Print a record 3: Print all info 4: Delete a record 5: Quit the program

* Records loaded at start.

Test	Input	#Records	Result
Test	mput	#Records	Pass/Fail
0 : Start the program then exit without performing any other action(s).	> addrBook 5	0	Pass
Expected result : Exits (displays goodbye) without error.			
1 : Start the program with an invalid argument.	> addrBook -d	0	Pass
Expected result : Unix style usage statement.			
2: Start the program with an invalid number of arguments.	> addrBook debug something	0	Pass
Expected result : Unix style usage statement.			
3 : Start the program with the debug argument; exit the program.	> addrBook debug 5	0	Pass
Expected result : Display debugging information, then display the UI, then display more debug information before quitting.			
4: start the program normally.	> addrBook	0	Pass
Expected result : program starts without error or debugging			

messages.			
5: Add record; print out the list; select quit. Expected result: Print out of the added record.	0 Testy McGee 1921 123 Four Street Hollywood, CA 90202 899-123-2134 3	0	Pass
6: Close program and reopen; select option to print all records. Expected result: On load, announces to the user that one entry has been loaded (normal operation); prints the previous record added; then prints menu again (normal operation).	> addrBook 3 5	1	Pass
7: Add another record; print out the list; quit. Expected result: prints out the previous record and the new record; then prints menu again; quits without error.	> addrBook 0 Luke Skywalker 1924 123 Four Street Tatooine, SY 90202 123-2134 3	1	Pass
8: Add two more records; print out the list;. Expected result: Prints the four records added to the list; then prints menu again; quits without error.	0 Princess Leia 1992 23 Jordan St Apt B Honolulu, HI 96892 808-555-9876 0 Jack and Jill 1980 1 Pail of Water Up-a-hill, TN 82313 810-234-1234 3 5	2	Pass

9 : Remove first element in list; print out list; quit.	4 Testy McGee 3 5	4	Pass
Expected result : print out the list less the first record (Testy McGee); then prints menu again; quits normally.	5		
10: Remove the last item in the list (Jack and Jill); Print the list; quit. Expected result: Display's message stating 1 item has been deleted; print the two remaining items in the list; then prints menu again; quits normally.	Jack and Jill 3 5	3	Pass
11: Remove the remaining elements in the list (Luke Skywalker and Princess Leia). Print out list; quits. Expected Result: Prints 'Address Book is empty'; then print menu again; quits normally.	4 Luke Skywalker 4 Princess Leia 3 5	2	Pass
12: Attempt to delete an item from an empty list; quit; Expected result: Prints 'Address Book is empty'; then print menu again; quits normally.	4 5	0	Pass
13: Add duplicate records to list; select print all; quit. Expected result: The two duplicate entries; then prints the menu again; quits normally.	O Luke Skywalker 1924 123 Four Street Tatooine, SY 90202 123-2134 O Luke Skywalker 1924 123 Four Street Tatooine, SY 90202 123-2134	Θ	Pass

14: Delete by name Luke Skywalker; print all records; quit. Expected result: Prints 'Address Book is empty'; then prints the menu again; quits normally.	4 Luke Skywalker 3 5	2	Pass
15: Add three records consisting of two duplicate entries to the end of list; print all records; quits. Expected result: prints out the three items (including the two dups) made to the address book; then prints menu again; quits normally.	O Luke Skywalker 1924 123 Four Street Tatooine, SY 90202 123-2134 O Anakin Skywalker 1901 7 Electric Ave New York, NY, 12904 899-123-2134 O Anakin Skywalker 1901 7 Electric Ave New York, NY, 12904 899-123-2134 3	0	Pass
16: Select Anakin Skywalker (the duplicate entries at the end of the list) for deletion; print all records; quit. Expected result: Prints the non-duplicate (Luke Skywalker) item left in the addrBook; then prints menu again; quits normally.	4 Anakin Skywalker 3 5	3	Pass
17: Add 2 items; one a duplicate of the first item already in the list (Luke Skywalker); print all records; quit. Expected result: Print the last item in the addBook (Anakin Skywalker); removed both the	Uke Skywalker 1924 123 Four Street Tatooine, SY 90202 123-2134 0 Anakin Skywalker 1901	1	Pass

duplicate entries; then prints menu again; quits normally.	7 Electric Ave New York, NY, 12904 899-123-2134 3		
18: Select the duplicate at the beginning of the list for deletion; print all records; quit. Expected result: Prints the list (less the two duplicates at the beginning) consisting of one item Anakin Skywalker; then prints menu again; quits normally.	4 Luke Skywalker 3 5	3	Pass
19: Add 3 records; print all records; quit. Expected result: Prints out the four items in the addrBook; then prints menu again; quits normally.	O Luke Skywalker 1924 123 Four Street Tatooine, SY 90202 123-2134 O Princess Leia 1992 23 Jordan St Apt B Honolulu, HI 96892 808-555-9876 O Jack and Jill 1980 1 Pail of Water Up-a-hill, TN 82313 810-234-1234 3	1	Pass
20: Select to delete name matches third record; print list; quit. Expected result: Prints the same output as the previous step less Princess Leia; then prints menu again; quits normally.	4 Princess Leia 3 5	4	Pass

21: Delete name matches the first record from list with 3 records; print all records; quit. Expected result: Prints the two records for Luke Skywalker and Jack and Jill; then prints menu	4 Anakin Skywalker 3 5	3	
again; quits normally. 22: select to print Luke Skywalker; quit. Expected result: prints the record with the name Luke Skywalker; then prints menu again; quits normally.	2 Luke Skywalker 5	2	Pass
23: Add a duplicate to the list. Select to print the duplicate; quit. Expected result: Prints both the original and duplicate entries; then prints the menu; quit normally.	0 Luke Skywalker 1924 123 Four Street Tatooine, SY 90202 123-2134 2 Luke Skywalker 5	2	Pass
24: Delete all items in list; try print by name; quit. Expected result: Prints a messages telling the user the addrBook is empty; then prints the menu; quit normally.	4 Luke Skywalker 4 Jack and Jill 2 5	3	Pass
25: Add 50 duplicate records; print all record; quit. Expected result: Prints all 50 records; then prints the menu; quit normally.	Uuke Skywalker 1924 123 Four Street Tatooine, SY 90202 123-2134 (x50)	0	Pass

26 : Delete all 50 duplicate records; print out the addrBook contents; quit.	4 Luke Skywalker 3 5	50	Pass
Expected result : Prints message that 50 records have been deleted; prints a message that the addrBook is empty; then prints the menu; quits normally.			
27 : Attempt print all while list is empty; quit.	3 5	0	Pass
Expected result : Prints message telling user the list is empty is displayed; then prints the menu; quit normally.			
28: Add a record; print all; select menu option to modify that record; modify the address; print that/all record; quit. Expected result: Prints the record as modified; then prints the menu; quit normally.	Uke Skywalker 1924 123 Four Street Tatooine, SY 90202 555-234-5555 1 0 Luke Skywalker 123 Force Ave Rebel Base, Hoth 12329 3 5	Θ	Pass
29: Add an identical record; select option to modify by name the records just added; print the records; quit. Expected result: Prints the modified duplicates correctly; then prints the menu; quit normally.	Uuke Skywalker 1924 123 Force Ave Rebel Base, Hoth 12329 555-234-5555 1 Luke Skywalker 0 83 Dagobah Drive General Delivery Dagobah, TX 84924 3 5	1	Pass

30: Add two records; Delete first item in list; print all records; quit. Expected result: Correctly prints the two remaining items in the addrBook; prints the menu; quit normally.	Princess Leia 1992 23 Jordan St Apt B Honolulu, HI 96892 808-555-9876 0 Anakin Skywalker 1901 7 Electric Ave New York, NY 12904 899-123-2134 4 Luke Skywalker 3 5	1	Pass
31: Add new record with name too long; print all; quit. Expected result: Prints a message that the name is too long and that it will be truncated and what it will be truncated to; executes the add with the truncated name; quits normally.	0 abcdefghijklmnopqrstuvwxyz 1951 46011 Kuneki Pl Kaneohe, HI 96744 555-555-5050 3	2	Pass
32: Add new record, attempt a non-numeric year of birth; correct and print all; quit. Expected result: When the user attempts to enter non-numeric yob, a message telling the user that's invalid is displayed and the user is asked again for yob; after correct prints all records normally; quits normally.	O Christopher Foo one-thousand nine hundred eighty seven 1987 1111 Dole Street University of Hawaii Honolulu, HI 96822 808-555-5555 3	3	Pass
33: Modify Christopher Foo's telephone number; print all; quit. Expected result: correctly modify's the entry's telephone number and prints all records; quits normally.	1 Christopher Foo 1 808-555-5050 3 5	4	Pass

34: Delete all entries, attempt to modify from empty addrBook; quit. Expected result: Deletes records successfully, and prints an error message telling the addrBook is empty when attempting to modify a non existent record.	4 Princess Leia 4 Anakin Skywalker 4 abcdefghijklmnopqrstuvwx 4 Christopher Foo 1 5	4	Pass
35: Add record, attempt to enter address over length (80 total chars); correct address under length; print record; quit. Expected result: prints an error message telling the user the address is too long and to please re-enter, asks for address again; prints corrected record; quits normally.	Jonh Doe 1999 abcdefghijklmnopqrstuvwxyz abcdefghijklmnopqrstuvwxyz abcdefghijklmnopqrstuvwxyz 1 First Street Apt 1 Onesville, PA 16789 814-908-0987 3 5	Θ	Pass
36: Attempt to modify record that doesn't exists; give up and quit. Expected result: Prints an error message telling the user that record doesn't exist; quit normally.	1 john 5	1	Pass
37: Attempt to print a record that doesn't exist; give up and quit. Expected result: Prints a message telling the user there is no record matching their search name; quits normally.	2 john 5	1	Pass