			Project 1 Test Plan		
Test #	Description	Inputs	Expected Outputs	PASS	FAIL
1	Start program with no arguments	/Proj1	Menu will display as below (1) Add a new record in the database (2) Modify a record in the database using the accountno as the key (3) Print information about a record using the accountno as the key (4) Print all information in the database (5) Delete an existing record from the database using the accountno as a key (6) Qut the progress Please enter the number of the menu item to run:	x	
2	Modify Record (empty list)	2	"List is empty"	~	
_			Return to menu "List is empty"	X	
3	Print Record (empty list)	3	Return to menu "List is empty"	X	
4	Print All Records (empty list) Add a new record to empty list	4	Return to menu "Record added sucessfully"	Х	
5	(no-duplicate) Add new record to end of list	Record 1 of testRecords	Return to menu "Record added sucessfully"	Х	
6	(no-duplicate)	1 Record 3 of testRecords	Return to menu	X	
7	Add new record to middle of list (no-duplicate)	1 Record 2 of testRecords	"Record added sucessfully" Return to menu	X	
8	Print record at beginning of list	3 AcctNo of Record 1 of testRecords	135792468 Holly Dep 1000 School St. Honolulu, Hi 96823 1990	X	
9	Modify Record at beginning of list	2 135792468 2012 Modified Ave. New York, NY, 50213\$	*1 record(s) modified successfully.* Return to menu	X	
10	Print All Records	4	13579248B Holiy Day 13579248B 2012 Modified Ave. New York, NY, 50213 1990 12346978 Bartis E Dahl Halfs E Dahl Halfs E Agnus Rd. Honolulu, Hi 96824 USA 1980 96765432 Anita Knapp 12 University Ave. Honolulu, Hi 96824 1976	х	
11	Add a new record to beginning of list (no-duplicate)	1 Record 7 of testRecords	"record added sucessfully" Return to menu	X	
12	Delete record from end of list	5	"1 record(s) deleted successfully."	X	
13	(no-duplicate) print non-existent record	AcctNo of Record 3 of testRecords 3	Return to menu "Specified record doesn't exist."		
13	print non-existent record	AcctNo of Record 3 of testRecords	Return to menu	X	
14	Modify record at middle of list	135792468 1000 School St. Honolulu, HI 96823\$	"1 record(s) modified successfully." Return to menu	X	
15	Print record at middle of list	3 AcctNo of Record 1 of testRecords	135792468 Hotily Day Honolub, Hi 96823 1990 Return to menu	x	
16	Delete record from middle of list (no-duplicate)	5 AcctNo of Record 1 of testRecords	"1 record(s) deleted successfully." Return to menu	Х	
17	Delete record from beginning of list (no-duplicate)	5 AcctNo of Record 7 of testRecords	"1 record(s) deleted successfully." Return to menu	х	
18	Modify non-existent record (no-duplicate)	2 4444 44 Namae St. Fukuoka, Japan 49332-313\$	"Specified record doesn't exist," Return to menu	x	
19	Delete last record in list (no- duplicate)	5 AcctNo of Record 2 of testRecords	"1 record(s) deleted successfully." Return to menu	Х	
20a	Add duplicate record to empty list	1 Record 1 of testRecords	"record added sucessfully" Return to menu	X	
20b	Add duplicate record to empty list	1 Record 1 of testRecords	"record added sucessfully" Return to menu	х	
20c	Add duplicate record to beginning of list	1 Record 1 of testRecords	"record added sucessfully" Return to menu	X	
21a	Add a duplicate year record to end of list	1 Record 10 of testRecords	"record added sucessfully" Return to menu	X	
21b	end of list Add a duplicate year record to end of list	1 Record 10 of testRecords	Return to menu "record added succesfully" Return to menu Return to menu	X	
22	Modify duplicate year record at end of list	2 4556 190 Russia St. Boston, MA. 68293 USA\$	"2 record(s) modified successfully." Return to menu	х	
23	print duplicate record at end of list	3 AcctNo of Record 10 of testRecords	4556 James Bond 190 Russia St. Boston, MA. 86239 USA 1964 4556 James Bond 190 Russia St. Boston, MA. 86239 1964 197 Russia St. Boston, MA. 86239 1964 1986 1986 1986 1986 1986 1986 1986 1986	x	
24a	Add duplicate record to middle	1	"record added sucessfully"	X	
24b	of list Add duplicate record to middle	Record 8 of testRecords	Return to menu "record added sucessfully"	X	
_40	of list	Record 8 of testRecords	Return to menu	X	

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25	Print all records (duplicates)	4	135792489 Holly Day 1000 School St. Honolulu, HI 96823 1990 135792489 Holly Day 1000 School St. Honolulu, HI 96823 1990 155792489 Holly Day 1000 School St. Honolulu, HI 96823 1990 554 Kolly Day 1000 School St. Honolulu, HI 96823 1990 555 Kolly Lastinghaus 33 Nokelich rd. Juneau. Alaska 44862 44862 44862 44862 44862 44862 4566 James Bond 190 Russia St. Boston, MA. 86233 1954 4566 James Bond 190 Russia St. Boston, MA. 68234 4565 James Bond 190 Russia St. Boston, MA. 68263 James Bond 190 Russia St. Boston, MA. 68563 James Bond 190 Russia St. Bosto	x	
	Add duplicate record to end	1	Return to menu "Record added sucessfully"		
26 27	of list delete duplicate record from	Record 5 of testRecords 5	Return to menu "2 record(s) deleted successfully."	X	
	middle of list Delete non-existent record	AcctNo of Record 8 of testRecords 5	Return to menu "The entered account number doesn't exist or the list is empty."	X	
28	from list Delete duplicate record from	AcctNo of Record 8 of testRecords 5	Return to menu "3 record(s) deleted successfully."	X	
	beginning of list delete duplicate record from	AcctNo of Record 1 of testRecords 5	Return to menu "2 record(s) deleted successfully."	X	
30	end of list Add duplicate record to	AcctNo of Record 10 of testRecords 1	Return to menu "record added sucessfully"	X	
31	beginning of list delete remaining duplicate	Record 5 of testRecords 5	Return to menu "2 record(s) deleted successfully."	X	
	records to empty list	AcctNo of Record 5 of testRecords 5	Return to menu "The entered account number doesn't exist or the list is empty."	X	
33	delete from empty list print all from emptied list	1000	Return to menu "List is empty"	X	
35	Quit program from menu	6	Return to menu "Quitting program"		
36	Start program and enter	1	Program ends and control returns to console "record added sucessfully"	X X	
37	record for writefile tests Enter record for writefile tests	Record 4 of testRecords	Return to menu "record added sucessfully"	X	
38	Enter record for writefile tests	Record 6 of testRecords	Return to menu "record added sucessfully"	X	
39	Print All Records	4	Return to menu	x	
40	Quit program from menu to	6	"Quitting program"	X	
41	nitiate writefile Start program with no arguments to run readfile		Program ends and control returns to console Menu will display as below (1) Add a new record in the database (2) Modify a record in the database using the accountno as the key (3) Print information about a record using the accountno as the key (4) Print all information in the database (5) Delete an existing record from the database using the accountno as a key (6) Quit the program Please enter the number of the menu Item to run:	х	
42	Print all records to test readfile	4	1234 First M. Last First M. Last 123 Address Ave Sacramento, CA Sacramento, CA Sacramento, CA 4444 4444 Sir Namingway Jr. 44444 448 Namae hwy. Frükubika, Japan 4483-204-23338 1997 3030 Sir Albert Eynigon III 234 Rökenhill PI. Glasgow, Scotland 8438-5-1 1896 Return to menu. *record added successfully*	x	
	functionality	Record 8 of testRecords	Return to menu	X	

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44	Print All Records	4	1234 First M Last	x	
	DEBUG MODE TESTING				
Test#	Description	Inputs	Expected Outputs	PASS	FAIL
1	Start program with debug arguments	/Proj1 debug	Debug warning ***DEBUG**** will display along with parameter information Menu will display as below (1) Add a new record in the database (2) Modify a record in the database using the accountno as the key (3) Print information about a record using the accountno as the key (4) Print all information in the database (5) Delete an existing record from the database (6) Quit the program Please enter the number of the menu item to run:	x	
2	Modify Record (empty list)	2	"List is empty" Return to menu	Х	
3	Print Record (empty list)	3	"List is empty" Return to menu	Х	
4	Print All Records (empty list)	4	"List is empty" Return to menu	X	
5	Add a new record to empty list (no-duplicate)	1 Record 1 of testRecords	Debug warning ***DEBUG**** will display along with parameter information when entering address Debug warning ****DEBUG**** will display along with parameter information when record is added "Record added successfulle" Return to make the parameter information when entering address the parameter information when the parameter information when the parameter information when entering address t	x	
6	Add new record to end of list (no-duplicate)	1 Record 3 of testRecords	Debug warning ****DEBUG**** will display along with parameter information when entering address Debug warning *****DEBUG**** will display along with parameter information when record is added "Record added successfully" Return to menu	x	
7	Add new record to middle of list (no-duplicate)	1 Record 2 of testRecords	Debug warning """DEBUG"" will display along with parameter information when entering address Debug warning """DEBUG"" will display along with parameter information when encod is added Successfully "Record added successfully Return to menu Debug warning """DEBUG"" will display along with parameter information	X	
8	Print record at beginning of list	3 AcctNo of Record 1 of testRecords	Debug wai ining DEBOG wiii display along wiiii parailietia inionitadori 13792468 Holip Vay 1000 School St. Honolulu, Hi 98693	X	
9	Modify Record at beginning of list	2 135792468 2012 Modified Ave. New York, NY, 50213\$	Debug warning ****DEBUG**** will display along with parameter information when entering address Debug warning ****DEBUG**** will display along with parameter information when record is modified *1 record(s) modified successfully.* Return to menu	x	
10	Print All Records	4	Debug warning ****DEBUG**** will display along with parameter information 135732468 holly Day holl of the control of the contr	х	
11	Add a new record to beginning of list (no-duplicate)	1 Record 7 of testRecords	Debug warning ""DEBUG"" will display along with parameter information when entering address Debug warning ""DEBUG"" will display along with parameter information when record is added "Record added sucessfully" Return to menu	х	
12	Delete record from end of list (no-duplicate)	5 AcctNo of Record 3 of testRecords	Debug warning ****DEBUG**** will display along with parameter information when record is deleted *1 record(s) deleted successfully.* Return to make the more than the mor	х	
13	print non-existent record	3 AcctNo of Record 3 of testRecords	Return to menu Debug warning ****DEBUG**** will display along with parameter information "Specified record doesn't exist." Return to menu	x	
14	Modify record at middle of list	2 135792468 1000 School St. Honolulu, HI 96823\$	Debug warning ****DEBUG**** will display along with parameter information when entering address Debug warning ****DEBUG**** will display along with parameter information when record is modified *1 record(s) modified successfully. Return to menu	x	
15	Print record at middle of list	3 AcctNo of Record 1 of testRecords	135792468 Holly Day Honolulul, H 19623 1990 Return to menu	x	
16	Delete record from middle of list (no-duplicate)	5 AcctNo of Record 1 of testRecords	Debug warning "***DEBUG***" will display along with parameter information when record is deleted "1 record(s) deleted successfully."	х	
17	Delete record from beginning of list (no-duplicate)	5 AcctNo of Record 7 of testRecords	Return to menu Debug warning """DEBUG""" will display along with parameter information when record is deleted "1 record(s) deleted successfully." Return to menu	x	
18	Modify non-existent record (no-duplicate)	2 4444 44 Namae St. Fukuoka, Japan 49332-313\$	Debug warning ****DEBUG**** will display along with parameter information when entering address Debug warning *****DEBUG**** will display along with parameter information when record is modified "Specified record doesn't exist." Return to menu	x	
19	Delete last record in list (no- duplicate)	5 AcctNo of Record 2 of testRecords	Debug warning "***DEBUG**** will display along with parameter information when record is deleted "1 record(s) deleted successfully."	х	
20a	Add duplicate record to empty list	1 Record 1 of testRecords	Return to menu Debug warning """DEBUG""" will display along with parameter information when entering address Debug warning """DEBUG""" will display along with parameter information when record is added "Record added suc	х	
		1			

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20b	Add duplicate record to empty list	1 Record 1 of testRecords	Debug warning ****DEBUG**** will display along with parameter information when entering address Debug warning ******DEBUG***** will display along with parameter information when record is added **********************************	x	
20c	Add duplicate record to beginning of list	1 Record 1 of testRecords	Debug warning ****DEBUG***** will display along with parameter information when entering address Debug warning *****DEBUG***** will display along with parameter information when record is added "Record added sucessfully" Return to menu	x	
21a	Add a duplicate year record to end of list	1 Record 10 of testRecords	Debug warning ****DEBUG**** will display along with parameter information when entering address Debug warning ******DEBUG***** will display along with parameter information when record is added **********************************	х	
21b	Add a duplicate year record to end of list	1 Record 10 of testRecords	Debug warning ****DEBUG**** will display along with parameter information when entering address Debug warning ******DEBUG***** will display along with parameter information when record is added *********************************	х	
22	Modify duplicate year record at end of list	2 4556 190 Russia St. Boston, MA. 68293 USA\$	Debug warning ""'DEBUG"" will display along with parameter information when entering address Debug warning ""'DEBUG"" will display along with parameter information when record is modified 2 record(s) modified successfully." Return to menu	х	
23	print duplicate year record at end of list	3 AcctNo of Record 10 of testRecords	James Bond 190 Russia St. Boston, MA. 0825 1945 1945 Return to menu	х	
24a	Add duplicate record to middle of list	1 Record 8 of testRecords	Debug warning ""DEBUG"" will display along with parameter information when entering address Debug warning """DEBUG"" will display along with parameter information when record is added "Record added sucessfully" Return to menu	x	
24b	Add duplicate record to middle of list	1 Record 8 of testRecords	Debug warning ****DEBUG**** will display along with parameter information when entering address Debug warning *******DEBUG***** will display along with parameter information when record is added **********************************	x	
25	Print all records (duplicates)	4	Debug warning ****DEBUG**** will display along with parameter information 135732468	x	
26	Add duplicate record to end of list	1 Record 5 of testRecords	Debug warning *****DEBUG***** will display along with parameter information when entering address Debug warning ***********************************	x	
27	delete duplicate record from middle of list	5 AcctNo of Record 8 of testRecords	Debug warning ****DEBUG**** will display along with parameter information when record is deleted *2 record(s) deleted successfully.* Return to menu	х	
28	Delete non-existent record from list	5 AcctNo of Record 8 of testRecords	Debug warning "***DEBUG**** will display along with parameter information when record is deleted "The entered account number doesn't exist or the list is empty." Return to menu.	х	
29	Delete duplicate record from beginning of list	5 AcctNo of Record 1 of testRecords	Debug warning ****DEBUG**** will display along with parameter information when record is deleted "3 record(s) deleted successfully." Return to menu	х	
30	delete duplicate record from end of list	5 AcctNo of Record 10 of testRecords	Debug warning ****DEBUG**** will display along with parameter information when record is deleted "2" record(s) deleted successfully." Return to menu	x	
31	Add duplicate record to beginning of list	1 Record 5 of testRecords	Debug warning """DEBUG""" will display along with parameter information when entering address Debug warning """DEBUG"" will display along with parameter information when entering address "Record added successfully Return to menu	X	
32	delete remaining duplicate records to empty list	AcctNo of Record 5 of testRecords	Debug warning ****DEBUG**** will display along with parameter information when record is deleted "2 record(s) deleted successfully." **Return to memu Debug warning *****DEBUG**** will display along with parameter information when record is deleted	X	
33	delete from empty list	5 1000	"The entered account number doesn't exist or the list is empty." Return to menu "List is empty."	Х	
34	print all from emptied list Quit program from menu	6	List is empty Debug warning ****DEBUG**** will display along with debug information for writefile "Cutting program"	X	
33	got program nom menu	Ü	"Quitting program" Program ends and control returns to console	X	

			Project 1 Test Plan		
36	Run program with incorrect command line arguments	./Proj1 fail	hw3b: Incorrect arguments Usage: hw3b hw3b (jdebug) Program exits and control returns to console	x	
37	Start program and enter record for writefile tests	1 Record 4 of testRecords	Debug warning ***********************************	х	
38	Enter record for writefile tests	1 Record 6 of testRecords	Debug warning ""*DEBUG:"" will display along with parameter information when entering address Debug warning ""*DEBUG"" will display along with parameter information when record is added "Record added sucessfully" Return to menu	х	
39	Enter record for writefile tests	1 Record 7 of testRecords	Debug warning ****DEBUG**** will display along with parameter information when entering address Debug warning ****DEBUG**** will display along with parameter information when record is added "Record added sucessfully Return to menu	x	
40	Print All Records	4	Debug warning ****DEBUG**** will display along with parameter information 1234 First M. Last 123 Address Ave 1234 Address Ave 1245 2	х	
41	Quit program from menu to nitiate writefile	6	Debug warning ****DEBUG**** will display along with debug information for writefile *Cutting program* Program ends and control returns to console	x	
42	Start program with no arguments to run readfile	./Proj1 debug	Debug warning ****DEBUG**** will display along with parameter information Menu will display as below (1) Add a new record in the database (2) Modify a record in the database using the accountno as the key (3) Print information about a record using the accountno as the key (4) Print all information in the database (5) Delete an existing record from the database using the accountno as a key (6) Quit the program Please enter the number of the menu item to run:	х	
43	Print all records to test readfile	4	Debug warning *****DEBUG***** will display along with parameter information F28 M. Last 123 Address Ave Sacramento, CA 12345S 2012 4444 Sir Namingway Jr. 43 Namae hwy. Folkuoka, Japan 4483-204-23338 1997 3003 Sir Albert Eyington III 234 Rokenhill Pl. Glasgow, Scotland 84939-31 1896 Return to menu.	x	
44	Add a new record to ensure functionality	1 Record 8 of testRecords	Debug warning ""*DEBUG:"" will display along with parameter information when entering address Debug warning ""*DEBUG"" will display along with parameter information when record is added "Record added sucessfully" Return to menu	х	
45	Print All Records	4	Debug warning ****DEBUG**** will display along with parameter information 1234 1234 Aldress Ave 123 Address Av	x	