Program 1:		N A	Den B	prendon	
		Name: Amu	ile son, "		
Runtime:	ine Arguments		5 Points		
Name	ine Arguments	·	5 Points		
Address					
			5 Points		
City		-	5 Points		
State	Code Capital	18 	5 Points		
Zip Code	T.		<i>)</i>		
	5 digit	100	5 Points		
	4 digit	Ø	5 Points		
Dates	Month Day	1-5	15 Points		
	Year Expiration after		5 Points		
Radio Class		-	5 Points		
Call Sign		~/			
	Characters	_8	5 Points		
	Middle digit		5 Points		
	Not uppercase	10	5 Points		
Runtime	sub total			55 75 Points	
Specifications					
One	was encountered process record at a time ted, one record — multiple	-	10 Point	ts d'ditaples recon	l
	per Error Messages	errors ander re	<u></u>	ts didn't disples	
Used one re	ad and one write to fill str	ucture	5 Point	ts	
SubTotal				<u>20</u> 25 Points	
Program 1 Ru	ntime and specifi	cation tota	I	75_ 100 Points	
Documentation	on and coding sta	ndards	(minus)	Points	
Final Program	Grade			100 Points	

Program Header (40 Points) Main Page & @file (5 Points) Course Information(10 Points) Author Date Due Professor Course Location		
Program Information (10 Points) Details		
Compiling (5 Points) Compile & usage		
Todo, Bugs (10 Points) Bugs Todo		
Subtotal	(40)	
Function Header (10 Points) Author Description Params (when needed) Returns (when needed) Subtotal	(10)	
Others (15 Points) Meaningful variable names Whitespace around functions blocks of code & operators Comments, must be adequate to cover the algorithm if the code was remo	oved	
Enums Typedefs Subtotal	愛 ~9 玩 (15)	
Other items not mentioned above Multiple Files and files named correctly (10 Points) Global Variables (10 Points per variable) (Max of 30 Points) Bugs (30 Points) if it fails on given data and no bugs are recorded Compiler Warnings (5 points per warning) (max 20 Points) 80 character line limit (10 Points)	(-)
Total Documentation (max 100 Points)	905	

Birthdate: Licensing Dates: Class - Callsign:	Mar 13, 15 12:26
6/18/1991 - 6/19/1997 3 Nva W	grec

13,	brecords.txt	Page 1/2	Mar 13, 15 12:26	12:26
Roger L. Schrader Invalid 4 digit zip code Toni Logan	it zip code 12000		N,A,C,BD Invalid Invalid char Invalid char	walid d chara d chara
d Jr.	0:15		Invalid Invalid Invalid	d 4 dig d month d day i
r. day in	10/10/		Invali	d year
Bad [L] Name Invalid character in the name	name field			
Bad Address Invalid character in the addres Invalid day in Birthday Invalid first character in call	address field in call sign			
Bad City Invalid character in the Invalid 4 digit zip code	city field			
Bad State Invalid State Code Invalid day in Birthday				
Bad five zip code Invalid 5 digit zip code Invalid day in Expiration	on '			
Bad four zip code Invalid 4 digit zip code				
Invalid Months Invalid month in Birthday Invalid month in License Invalid month in Expiration	no			
Invalid Days Invalid 4 digit zip code Invalid day in Birthday Invalid first character in	in call sign			
Invalid Years Invalid 4 digit zip code Invalid year in Birthday Invalid year in License Invalid year in Expiration	ion			
Expiration after License Expiration Date is not after the Invalid first character in call	nse is not after the License Date naracter in call sign			
Invalid Radio Class Invalid 4 digit zip code Radio Class code is invalid	e alid			
First Char Call Sign Invalid Invalid first character	in call sign			
Invalid Digit in Call Sign Invalid day in Expiration Invalid digit in call sign	rion			
State code not upper case First character of State Invalid 4 digit zip code	e Code not capitalized			

	Mar 13, 15 12:26
ty fi	brecords.txt
	Page 2/2

```
int main(int argc, char *argv[])
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #include "functions.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               #pragma pack(1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                * Greturns 0 - program ran successfully.  
* Greturns 10 - Not enough command line arguments.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Feb 27, 15 23:03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                @par Description:
This is the main function of the program. It calls the functions to read
and write from, and to files, it also calls the function that calls the
function that checks for errors in all portions of the records in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ofstream good, bad;
Record record;
string countFalse;
if (argc == 4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    @param[in]
@param[in]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               database file.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                @author Brandon Amundson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gendverbatim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           February 26
February 27
return(0);
                closeFiles(fin, good, bad);
                                                                                                                                                                                                 while (fin.read((char*)&record, sizeof(Record)))
                                                                                                                                                                                                                                                                                                                                                        else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ifstream fin;
                                                                                                errorCheck(countFalse, good, bad, record);
countFalse.clear();
                                                                                                                                               callFunctions (record, countFalse);
                                                                                                                                                                                                                                                                             return(10);
                                                                                                                                                                                                                                                                                                  cout << "Please run as proglexe, database file, good file, bad file.";
                                                                                                                                                                                                                                                                                                                                                                                                      openFiles(fin, good, bad, argv);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Document Program
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fix all bugs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               \mbox{\it argc} - \mbox{\it argment} count from when the program was started \mbox{\it argv} - \mbox{\it contains} the \mbox{\it argments} from when the program was
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              started.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  prog1.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page 2/2
```

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Feb 27,

15 22:35

functions.h

void DION const void zipCheck(unsigned int zip, string &countFalse);
void extractDate(unsigned int date, string &countFalse, void nameCheck(string name, string &countFalse, int i); void callFunctions (Record record, string &countFalse); const const const const const const const void classCheck(string radio, string &countFalse); void checkIfAfter(string &countFalse, string license, void yearCheck(int year, string &countFalse, int i); void dayCheck(int day, int month, void monthCheck(int month, void numCheck(string address, string &countFalse); * @brief @brief Gbrief Gbrief Gbrief @brief Gbrief @brief sign(string sign,
errorCheck(string zipCheck(unsigned int zip, state(string state, string &countFalse); openFiles(ifstream &fin, ofstream &good, ofstream int int DIG5MASK = 262143; int DIG4MASK = 16383; string validChar = {"KWNkwn"}; string string int yearMask = 4095; int monthMask = This is the mask that is used from the date portions of the The This is the mask that is used to extract the month The valid characters Record Structure The valid characters The valid days for each month that Record Structure from the date portions of the Record This dayMask = from The mask used to e the zipCode field mask used to extract zipCode field of the validClass = validNames 18 Structure the mask that is used e date portions of the "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz." string &countFalse); { "npatgxNPATGX" }; string &countFalse, extract the four digit po d of the record structure that can that can be string &countFalse, the ω₁,); five digit portion to extract the year portion Record structure. Record structure. be to extract the day portion Record structure. in in 31, can &good, the the int 30, be callSign radioClass portion 31, in otstream string expire); the int i); &bad, 31, int &i, of Of field date field of 30, portion of the Zip Code field &bad, the string &format); Of Zip **commandline) of Record Of the the the date record date date

functions.h

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/*************************************
<pre>idx = name.find_first_not_of(validNames); if (idx != name.npos) { countFalse[i] = 1; } else countFalse[i] = 0; }</pre>
int idx;
name - This typecasts record from a ciallowing the use functions. Intralse - This is the struction is set to a liibrate function in times a function track of all exacts
* * @par Description: * * @par Description: * This is the function that checks for the correct set of characters, * (ie. letters a-z both uppercase and lowercase, and spaces or periods) in the * name field and is used on the name and city portion of the record.
/*************************************
<pre>extractDate(record.birthDate, countFalse, i, birth); extractDate(record.licensedDate, countFalse, i, license); extractDate(record.expirationDate, countFalse, i, expire); checkIfAfter(countFalse, license, expire); classCheck(char*) & krecord.radioClass, countFalse); sign(record.callSign, countFalse);</pre>
nt i trin trin trin trin trin count ameC += umCh ameC tate
/ void callFunctions(Record record, string &countFalse) {
* @param[in,out] countFalse - This is the string that keeps track of all * @param[in,out] countFalse - This is the string that keeps track of all * errors found in the database file. Each portion * is set to a 1 if there are any errors. ***********************************
* @param[in] record - This is passed in to allow access to the records * that were read into the structure in main. * Program breaks if this is declared as a local
Feb 27, 15 22:06 functions.cpp Page 2/10

apar

Description:

```
void zipCheck(unsigned
                                                            **************
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Feb 27, 15 22:06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Oper Description:
This is the function that checks if the four digit and five digit portions of the zipcode are valid. If the 5 digit portion or the four digit portion of the zipcode are valid.
@par Description:
                                         @author Brandon Amundson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      @param[in,out] countFalse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              @param[in]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               accordingly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    of the zipcode are valid. If the 5 digit portion or the four digit post the zip code is not valid variable countFalse is incremented to a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gauthor Brandon Amundson
                                                                                                                                                                                                   else
                                                                                                                                                                                                                                                                                                                       else
                                                                                                                                                                                                                                                                                                                                                          if (fiveDigit >= 10000 && fiveDigit <= 99999)
                                                                                                                                                                                                                                                                                                                                                                                                temp = zip >> 14;
fiveDigit = temp & DIG5MASK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            unsigned
                                                                                                                                                                                                                                       if (fourDigit >= 1000 &&
                                                                                                                                                                                                                                                                                                                                                                                                                                       tourDigit =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               unsigned
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    unsigned
                                                                                                                                                                                                                      countFalse[6] = 0;
                                                                                                                                                           countFalse[6] =
                                                                                                                                                                                                                                                                             countFalse[5] =
                                                                                                                                                                                                                                                                                                                                        countFalse[5]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           countFalse[3] =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              int temp;
                                                                                                                                                                                                                                                                                                                                                                                                                                      zip & DIG4MASK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             fiveDigit;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     fourDigit;
                                                                                                                                                                                                                                                                                                                                                                                                                    14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        int zip, string &countFalse)
                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            drz
                                                                                                                                                                                                                                       fourDigit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      is to be extracted.
This is the string that keeps track of all
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 errors found in the database file.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This is the zipcode portion of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              functions.cpp
                                                                                                                                                                                                                                         ٨
                                                                                                                                                                                                                                         9999)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Each portion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Page 4/10
```

This is the function that extracts the date in its portions of month, dand year. The function then checks to find if the month, day, and year valid. If any part of the date is not valid, the variable countFalse.

day,

incremented to a 1 accordingly.

@param[in,out]

format

is an error or not.
This keeps track of the date which is put
This keeps track of the date which is put
This allows the program to the progra

the program function.

@param[in,out]

@param[in,out] @param[in]

countFalse

is to be extracted into its seperate parts.

- This is the string that keeps track of all errors found in the database file. Each portion is set to a l if there are any errors.

This variable keeps count of

to change to a 1 or 0 depending on whether there

where

in the string

This is the date portion of the record that

date -

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. . .

year, string &countFalse, int i)	void yearCheck(int year,
*****	*************
is an error or not.	3 , 3
the s	* @param[in]
is set to a l if there are any errors.	s- 3
countFalse - This is the string that keeps track of all	* @param[in,out]
field is valid. A valid year is between 1900 and 2015.	* *
he year portion of the do	*
year - This is the year that has been extracted from	* @param[in]
nonth. If the month is not valid, countFalse is incremented error. Otherwise it is set to 0 if it is valid.	eflect the
akes the month that is sent in and checks to make sure that	
77.	
Amundson	* @author Brandon Amundson
·洛林尔林米林林林林林林林林林林林林林林林林林林林林林林林林林林林林林林林林林林	/***********
[i] = 1;	countFalse[i]
	else
Various (mointi) 0 & day <= maxDay) False[i] = 0;	if (day > 0 && day = countFalse[i] =
	int maxDay;
void dayCheck(int day, int month, string &countFalse, int i)	void dayCheck(int
/*************************************	***********
the date field. If it is not valid, the	* *
particular month that has been extracted from	*
compared against the valid days of the	*
portion of the record structure. It is	* « Fort ann [+ 117]
ı	* @param[in]
to change to a 1 or 0 depending on whether	* « " " " " " " " " " " " " " " " " " "
is set to a 1 if there are any errors.	* *
countFalse - This is the string that keeps track of all	* @param[in,out]
used to see if the day portion of the date field	* *
functions.cpp Page 6/10	Feb 27, 15 22:06
Tilliag by Cliviowit Osci	

```
This is the month that has been extracted from the date field of the Record structure. It is
                                                             @param[in]
                                                                                                                                                                                                             Gauthor Brandon Amundson
                                                                                                                                                   Gpar Description:
```

else

countFalse[i]

11

if (year >= 1900 && year countFalse[i] = 0;

٨

2015)

license -

This is the license date part of the structure and is in the format of year/month/day and is checked to see if it is before the expire date

year/month/day and is before the expire date.

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functions.cpp

* callSign is invalid, the valid countFalse is incremented accordingly.
to a 1 if there are any error
sign(string sign, string &countFalse)
sign.erase(5); countFalse.resize(24);
<pre>if (idx == sign.npos idx == 1) countFalse[18] = 0;</pre>
if (sign[1] >= 65 && sign[1] <= 90)
if $(sign[2]) >= 48$ && sign[2] <= 57) countFalse[20] = 0;
<pre>lse countFalse[20] = 1;</pre>
if $(sign[3] >= 65 \&\& sign[3] <= 90)$ countFalse[21] = 0;
if (sign[4] >= 65 && sign[4] <= 90)
else
<pre>upper = isupper(sign[0]); if (upper == 0 countFalse[19] == 1 countFalse[21] == 1 countFalse[2] 2] == 1)</pre>
{ COUNTED SE [19] =
countFalse[22] = 0; countFalse[21] = 1;
countFalse.resize(21);
/*************************//** * @author Brandon Amundson *
iption: ion processes the countFalse string looking to see if there
* any errors in the string, and if there are, the outputError function is * called to output the errors. If there are no errors, the outputGood * function which will output the good records that do not have any errors.
* @param[in, out] good - Output File Stream that has been opened. Used * output file Stream that has been opened. Used
tput File Stream that has
is is the string that keeps trors found in the database fi
is is passed in to allow access at were read into the structure

<pre>void errorCheck(string &countFalse, ofstream &good, ofstream &bad, Record record)</pre>

, ~

Invalid first character in call sign " << end1;

```
void outputError(string &countFalse,
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Feb 27, 15 22:06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            @par Description:
This function outputs any errors to a text file.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           @param[in]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              @param[in, out] countFalse -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            @param[in, out]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   @author Brandon Amundson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          else
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            idx = countFalse.find_first_of(1);
if (idx != countFalse.npos)
                  ΞÉ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      bad << record.name << endl;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (countFalse[4] bad << " First
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (countFalse[3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (countFalse[0]
                              countFalse[17] == 1)
bad << " Expiration Date is not after the License Date"

(countFalse[17] == 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                          (countFalse[6]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (countFalse[2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (countFalse[1
                                                                                                                                                                                                                                                                                                                                                                                                     (countFalse[7]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (countFalse[5]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              idx;
                                                                                                             (countFalse[15]
                                                                                                                                                        (countFalse[14]
                                                                                                                                                                                                                                                   (countFalse[11]
                                                                                                                                                                                                                                                                                      (countFalse[10]
                                                                                                                                                                                                                                                                                                                                  (countFalse[9]
                                                                                                                                                                                                                                                                                                                                                                       (countFalse[8]
(countFalse[18] bad << " Invali
                                                                                                                                                                                            (countFalse[13]
                                                                                                                                                                                                                             bad << " Invalid day in License" << endl;
(countFalse[12] == 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       outputGood(good, record);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             bad << endl;
                                                                                                                                                                                                                                                                                                                                                      bad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 bad << "
                                                                                                                                                                                                            bad << "
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            outputError(countFalse, bad, record);
                                                                                                                                           bad <<
                                                                                                                                                                            bad <<
                                                                                                                                                                                                                                                                                   bad <<
                                                                                                                                                                                                                                                                                                                    bad <<
                                                                                                                                                                                                                                                                                                                                                                                        bad <<
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   bad <<
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       First character of State Code not capitalized" << end1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Invalid character in the name field" << end1;
                                                                                                                                       Invalid day in Expiration"
                                                                                                                                                                           Invalid month in Expiration" << end1;
                                                                                                                                                                                                            Invalid year in License" << end1;
                                                                                                                                                                                                                                                                                 Invalid month in License"
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Invalid 5 digit zip code" << end1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Invalid State Code" << end1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Invalid character in the city field " << end1;
                                                                                                                                                                                                                                                                                                                   Invalid year in Birthday"
                                                                                                                                                                                                                                                                                                                                                                                      Invalid month in Birthday" << end1;
                                                                                                                                                                                                                                                                                                                                                                                                                       Invalid 4 digit zip code"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Invalid character in the address field " << end1;
                                                                                                      Invalid year in Expiration" << end1;
                                                                                                                                                                                                                                                                                                                                                    Invalid day in Birthday"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           record
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 bad -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         is set to a 1 if there are any errors. This is passed in to allow access to the records that were read into the structure in main.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           to output bad records to a text file. This is the string that keeps track of all errors found in the database file. Each p
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Output File Stream that has been opened.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Program breaks if this is declared as a local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tunctions.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                         << end1;
                                                                                                                                                                                                                                                                                                                                                      << endl;
                                                                                                                                                                                                                                                                                                                   << end1;
                                                                                                                                                                                                                                                                                 << endl;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ofstream & bad,
                                                                                                                                         << endl;
                                                                      << endl;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Record record)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Each portion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Page 9/10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Used
```

* * * * *	********	CO 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	* * * * * * * * * * * * * * * * * * * *	Fe
<pre>* @param[in, out] * @param</pre>	**************************************	* @param[in] record - * @param[in, out] good - * @param[in, out] good - * *********************************	<pre>if (countFalse[20] == 1) bad << " Invalid digit in c if (countFalse[21] == 1) bad << " Call Sign not up bad << " Call Sign not up far the second of the sec</pre>	Feb 27, 15 22:06 if (countFalse[19] bad << " [nvali
Used to read in contents from binary checked for accuracy. good - Output File Stream to be closed. Use good records to a binary file. bad - Output File Stream to be closed. Use bad records to a text file. ***********************************	******** t opens t d the bac a specii le, it ex	cord - This is passed in to allow that were read into the stream breaks if this is contained. Program breaks if this is contained to evariable. Good - Output File Stream that has to evariable to output good records to evarence to e	<pre>c<end1; "="" ***********************************<="" 1)="" <<="" bad="" call="" countfalse[20]="=" countfalse[21]="=" digit="" end1;="" hwalid="" in="" not="" sign="" sign"="" td="" uppercase"=""><td>functions.cpp [19] == 1) [Invalid second, fourth, or fifth character in call sign"</td></end1;></pre>	functions.cpp [19] == 1) [Invalid second, fourth, or fifth character in call sign"
Used to output Used to output Used to output	**********//** od records to a file. All f this function	access to the records ructure in main. Reclared as a local been opened. Used binary file.	*********//**	Page 10/10