Limitation(s)

1. Print formatting after First and Last name was not cooperating
2. Deletes Employee, decrease counter, but when displayed, has an empty tuple
3. Doesn't fully handle inputs that are not the same type as inspected input
4. Does not crash to my knowledge

```
[singhp35@compile p2]$ make
gcc -c -g -Wall  cmsc257-f20-p2.c -o p2.o
gcc -c -g -Wall  p2-support.c -o p2-support.o
gcc -lm p2.o p2-support.o -o cmsc257-f20-p2
[singhp35@compile p2]$ ./cmsc257-f20-p2
*************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
*************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
1
No. EmpID EmployeeName          Email              Salary
--- ----- -------------------- -------------------- ----------
0    00101 Paula Brown pb@aol.com 1000.37
1    00102 Paul Green pg@aol.com 2700.45
2    00203 Chris Reddy cr@aol.com 2304.67
3    00204 Christine Bluer cb@aol.com 40009.99
4    00305 Stephen Black sb@aol.com 8500.01
5    00306 Wei Martin wm@aol.com 98999.99
6    00307 Mitch Martinez mitch@aol.com 78999.88
7    00408 David Boyle db@aol.com 100000.01
8    00409 Chris Boyle cb@aol.com 200000.01
*************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
*************************************************************
```

```
[singhp35@compile p2]$ ./cmsc257-f20-p2
*************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
*************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
2
No. EmpID EmployeeName          Email              Salary
--- ----- -------------------- -------------------- ----------
0   00306 Wei Martin wm@aol.com 98999.99
1   00307 Mitch Martinez mitch@aol.com 78999.88
2   00408 David Boyle db@aol.com 100000.01
3   00204 Christine Bluer cb@aol.com 40009.99
4   00305 Stephen Black sb@aol.com 8500.01
5   00409 Chris Boyle cb@aol.com 200000.01
6   00101 Paula Brown pb@aol.com 1000.37
7   00102 Paul Green pg@aol.com 2700.45
8   00203 Chris Reddy cr@aol.com 2304.67
*************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
*************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
```

```
8    00203 Chris Reddy cr@aol.com 2304.07
****************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
****************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
3
Enter the ID you are searching for
00307
No. EmpID EmployeeName              Email                    Salary
--- ----- -------------------- -------------------- ----------
1    00307 Mitch Martinez mitch@aol.com 78999.88
****************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
****************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
```

```
***************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
***************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
4
Enter the Last Name you are searching for
Martinez
No. EmpID EmployeeName          Email                 Salary
--- ----- -------------------- -------------------- ----------
1   00307 Mitch Martinez mitch@aol.com 78999.88
***************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
***************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
```

```
[singhp33@compile p2]$ ./CMSC257-120-p2
*************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
*************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
6
Enter the Last Name you are searching for
Martinez
No. EmpID EmployeeName          Email                Salary
--- ----- -------------------- -------------------- ----------
1    00307 Mitch Martinez mitch@aol.com 78999.88
*************************************************************
******USERNAME Employee Database -
Total Employees: 8 ******
*************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
2
No. EmpID EmployeeName          Email                Salary
--- ----- -------------------- -------------------- ----------
0    00306 Wei Martin wm@aol.com 98999.99
1                          0.00
2    00408 David Boyle db@aol.com 100000.01
3    00204 Christine Bluer cb@aol.com 40009.99
4    00305 Stephen Black sb@aol.com 8500.01
5    00409 Chris Boyle cb@aol.com 200000.01
6    00101 Paula Brown pb@aol.com 1000.37
7    00102 Paul Green pg@aol.com 2700.45
*************************************************************
******USERNAME Employee Database -
Total Employees: 8 ******
*************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
```

```
7. Exit
7
Bye!
[singhp35@compile p2]$ ./cmsc257-f20-p2
*************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
*************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
6
Enter the Last Name you are searching for
singh
No. EmpID EmployeeName          Email                Salary
--- ----- -------------------- -------------------- ----------


*************************************************************
*************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
*************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
5
Enter the Last Name you are searching for
singh
No. EmpID EmployeeName          Email                Salary
--- ----- -------------------- -------------------- ----------


*************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
*************************************************************
Choose one of the menu options below:
```

```
[singhp35@compile p2]$ ./cmsc257-f20-p2
*************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
*************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
3
Enter the ID you are searching for
00000
No. EmpID EmployeeName            Email                Salary
--- ----- -------------------- -------------------- ----------


*************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
*************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
```

```
[singhp35@compile p2]$ ./cmsc257-f20-p2
************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
5
Enter the ID you are searching for
00000
No. EmpID EmployeeName         Email                Salary
--- ----- -------------------- -------------------- ----------


************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
```

```
7. Exit
7
Bye!
[singhp35@compile p2]$ ./cmsc257-f20-p2
********************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
********************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
6
Enter the Last Name you are searching for
singh
No. EmpID EmployeeName         Email                Salary
--- ----- -------------------- -------------------- ----------

********************************************************************
```

```
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
3
Enter the ID you are searching for
00307
==3687== Conditional jump or move depends on uninitialised value(s)
==3687==    at 0x4C2E21C: __GI_strcmp (vg_replace_strmem.c:850)
==3687==    by 0x400E00: search (p2-support.c:116)
==3687==    by 0x4018A9: displayMenu (p2-support.c:284)
==3687==    by 0x4007CA: main (cmsc257-f20-p2.c:11)
==3687==
==3687== Conditional jump or move depends on uninitialised value(s)
==3687==    at 0x400E03: search (p2-support.c:116)
==3687==    by 0x4018A9: displayMenu (p2-support.c:284)
==3687==    by 0x4007CA: main (cmsc257-f20-p2.c:11)
==3687==
No. EmpID EmployeeName        Email              Salary
--- ----- ------------------- ------------------- ----------
6   00307 Mitch Martinez mitch@aol.com 78999.88
**************************************************************
******USERNAME Employee Database -
Total Employees: 9 ******
**************************************************************
Choose one of the menu options below:
1. Sort with ID
2. Display all employees
3. Search employee by ID
4. Search employee by Last Name
5. Delete employee by ID
6. Delete employee by last Name
7. Exit
7
Bye!
==3687==
==3687== HEAP SUMMARY:
==3687==     in use at exit: 0 bytes in 0 blocks
==3687==   total heap usage: 2 allocs, 2 frees, 592 bytes allocated
==3687==
==3687== All heap blocks were freed -- no leaks are possible
==3687==
==3687== Use --track-origins=yes to see where uninitialised values come from
==3687== For lists of detected and suppressed errors, rerun with: -s
==3687== ERROR SUMMARY: 18 errors from 2 contexts (suppressed: 0 from 0)
[singhp35@compile p2]$
```