

Project Phase 2 members: Emails:

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- 1) We had an issue of comparing reading names from a file with input names from a user because of the last space existing in first name (fixed by deleting the extra space)
- 2) Using single and double vectors (to save the friends and their ID code)
- 3) Overriding operations (== and != in Date class and Person class)
- 4) We used default constructor and constructor-based input arguments. We also used Destructors.
- 5) There are three virtual functions defined for class Contact as Pure Virtual functions so, we can override and use them.
- 6) In this project , we used the level of inheritance and friend class(All levels: private protected and public)
- 7) We added Network as a friend class to Person. The friend Network class helps to easily achieve Network is friend with person to have access to all the members and functions.
- 8) The class composition is used in Network class.
- 9) Network class has person class object as its private member. The Network object can access the
- 10) Person class through his method member.
- 11) Allocated and deallocated memory using pointers.
- 12) We learn a lot how to deal with DLL through the pointers.

Testing option 2

Showing all the DB files in the directory

Deleting all the data before loading new one

Printing the number of connections loaded from the file

```
ibb.db
Ibrahim.db
Maxc.db
network.db
networkDB.db
Enter the name of the load file in the listed (with .db): network.db
File Exist and is loading...
Deleting everything before loading new data

Null temp2.....
Null temp2.....
Null temp2.....
Null temp2.....
Null temp2.....
Number of connections: 4
-----
Louis-Dreyfus, Julia Scarlett Elizabet
January 13, 1961
Phone: (Office) 310-291-8877
Email: (Gmail) something@gmail.com
-----
Van Nostrand, Marti
July 24, 1949
Phone: (Home) 912-790-7004
Email: (Yahoo) myemail@yahoo.com
-----
Burban, Truman
January 17, 1962
Phone: (Work) 912-521-5350
Email: (Official) document@info.edu
-----
Burbank, Truman
January 17, 1962
Phone: (Work) 9125215350
Email: (Official) document@info.edu
-----
File is loaded successfully
Network loaded from network.db with 4 connections
```

Option 3: Adding a new connection

```
Adding a new connection
Enter a new connection:
First Name: ib
Last Name: dj
Birthdate (M/D/YYYY): 1/1/1111
Enter the type of email address: usc
Enter email address: w@
Enter the type of phone number: cell
Enter the phone number (acceptable formats (1234567890), (123 456 7890) or (123-456-7890): 1212343456
Searching :
dj, ib
January 1, 1111
Phone: (cell) 121-234-3456
Email: (usc) w@
Did not find a same perons in the DLL.
Adding a new connection (push front)
```

When connection exist

```
Adding a new connection
Enter a new connection:
First Name: ii
Last Name: dd
Birthdate (M/D/YYYY): 11/2/1122
Enter the type of email address: t
Enter email address: t@t
Enter the type of phone number: cell
Enter the phone number (acceptable formats (1234567890), (123 456 7890) or (123-456-7890): 1231231234
Searching :
dd, ii
November 2, 1122
Phone: (cell) 123-123-1234
Email: (t) t@t
Find the same person at position 1 of the DLL.
Connection already exist!
```

Option 9

Make friends

```
Make friends...
First Name: ii
Last Name: dd
First Name of 2nd connection: i
Last Name of 2nd connection: d
These two persons are now friends!
dd, ii
November 11, 1122
Phone: (bb) 132-456-7654
Email: (w) ww@@@@@@@@@2
id
-----
d, i
January 1, 1111
Phone: (cc) 123-123-1234
Email: (uu) uu@@@@@@@@@@@@@2
iidd
-----
```

```
Make friends...
First Name: ll
Last Name: ll
First Name of 2nd connection: ii
Last Name of 2nd connection: dd
These two persons are now friends!
ll, ll
January 1, 1970
Phone: () 676-767-6767
Email: ()
iidd
-----
dd, ii
November 11, 1122
Phone: (bb) 132-456-7654
Email: (w) ww@@@@@@@@@2
id
llll
-----
```

When friends exist

```
Make friends...
First Name: ii
Last Name: dd
First Name of 2nd connection: i
Last Name of 2nd connection: d
Already friends!
```

Make friends with itself:

```
Make friends...
First Name: ii
Last Name: dd
First Name of 2nd connection: ii
Last Name of 2nd connection: dd
Person can not make friend with it self
```

Option 4 removing connection

```
Searching and Removing a connection
First name: ii
Last name: dd
Remove successfully!
```

Option 6 printing all connections

```
Printing .....
Number of connections: 3
-----
ll, ll
January 1, 1970
Phone: ( ) 676-767-6767
Email: ( )
iidd
-----
dd, ii
November 11, 1122
Phone: (bb) 132-456-7654
Email: (w) ww@@@@@@@@@2
id
llll
-----
d, i
January 1, 1111
Phone: (cc) 123-123-1234
Email: (uu) uu@@@@@@@@@@@@@2
iidd
-----
```

Option 1 : Saving the data on DB file

```
1 ll, ll
2 1/1/1970
3 ( )
4 ( ) 676-767-6767
5 iidd
6 -----
7 dd, ii
8 11/11/1122
9 (w) ww@@@@@@@@@2
10 (bb) 132-456-7654
11 id
12 llll
13 -----
14 d, i
15 1/1/1111
16 (uu) uu@@@@@@@@@@@@@2
17 (cc) 123-123-1234
18 iidd
19 -----
```

student@studentVM: ~/vm_folder/project_phase2-khaled-ibrahim-max

```
Saving network database
Enter the name of the save file: db.db
Network saved in db.db
```

