Manual

IDE: Visual Studio 2017 Community in C++

0. Menu

```
Main Menu

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Enter the choice:2
```

1. Add a new contact

(Enter the amount first)

2. List all contacts

(I provide the sorting method)

```
Enter the choice:2

This is sorting by insertion method.

# Name Phone Address Email

1 Sean 0987654321 TaiwanTech sean@gmail.com

There are 1 contacts in your list.
```

3. Search for contact (no matter uppercase or lowercase)

```
Usage of Search: Name or Phone
Example:Amy or 0912345678
Please input user information:sean

Here is the user information:

Name Phone Address Email

Sean 0987654321 TaiwanTech sean@gmail.com
```

(Also provide searching by phone)

```
Usage of Search : Name or Phone
Example:Amy or 0912345678
Please input user information:0987654321
Here is the user information:
Name Phone Address Email
Sean 0987654321 TaiwanTech sean@gmail.com
```

(Show the message if not found)

```
Enter the choice:3

Usage of Search: Name or Phone
Example:Amy or 0912345678
Please input user information:sean2

There is no existed user with that name or phone number.
```

4. Edit a contact

(Name must be the same)

```
Enter the choice:4
Usage of Modify : Name or Phone
Example: Amy or 0912345678
Please input user information:sean
Here is the user information:
Name Phone Address Email
                                sean@gmail.com
Sean 0987654321 TaiwanTech
Usage:Name Phone Address Email
Example: Amy 0912345678 Taiwan amy@example.com.tw
Please input new information of user:Sean 0933555666 NTUST M10815096@mail.ntust.edu.tw
Modified the user successfully!
This is sorting by insertion method.
      Name Phone Address Email
     Sean 0933555666 NTUST M10815096@mail.ntust.edu.tw
There are 1 contacts in your list.
```

5. Delete a contact

(Check if really want to delete again)

```
Usage of Delete: Name or Phone
Example:Amy or 0912345678
Please input user information:sean

Name Phone Address Email

Sean 0987654321 TaiwanTech sean@gmail.com

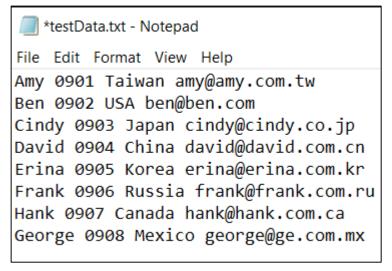
Are you sure to delete this user (y/n) ? y
Deleted the user successfully!

This is sorting by insertion method.

# Name Phone Address Email

There are 0 contacts in your list.
```

6. Import from file



(add user information from specified file)

```
Enter the choice:6
Usage of Import : filepath
Example:./book.txt
Please input the filepath:testData.txt
Importing... Amy 0901 Taiwan amy@amy.com.tw
Importing... Ben 0902 USA ben@ben.com
Importing... Cindy 0903 Japan cindy@cindy.co.jp
Importing... David 0904 China david@david.com.cn
Importing... Erina 0905 Korea erina@erina.com.kr
Importing... Frank 0906 Russia frank@frank.com.ru
Importing... Hank 0907 Canada hank@hank.com.ca
Importing... George 0908 Mexico george@ge.com.mx
Imported the file successfully!
This is sorting by insertion method.
       Name
                Phone
                                Address
                                                Email
       Amy
                0901
                        Taiwan
                                        amy@amy.com.tw
        Ben
                0902
                        USA
                                        ben@ben.com
       Cindy
               0903
                        Japan
                                        cindy@cindy.co.jp
       David
               0904
                        China
                                        david@david.com.cn
                                        erina@erina.com.kr
       Erina
               0905
                        Korea
                                        frank@frank.com.ru
        Frank
               0906
                        Russia
       Hank
               0907
                        Canada
                                        hank@hank.com.ca
       George 0908
                        Mexico
                                        george@ge.com.mx
There are 8 contacts in your list.
```

7. Export to file

```
Enter the choice:7

Usage of Export: filepath
Example:./book.txt
Please input the filepath:outputfile.txt

Exported the file successfully!
```

outp	utfile.txt - No	tepad			
File Edi	Format V	iew Help			
 This i	s sorting	by inse	ertion me	thod.	
#	Name	Phone		Address	Email
1	Amy	0901	Taiwan		amy@amy.com.tw
2	Ben	0902	USA		ben@ben.com
3	Cindy	0903	Japan		cindy@cindy.co.jp
4	David	0904	China		david@david.com.cn
5	Erina	0905	Korea		erina@erina.com.kr
6	Frank	0906	Russia		frank@frank.com.ru
7	Hank	0907	Canada		hank@hank.com.ca
8	George	0908	Mexico		george@ge.com.mx

8. Sorting

sorting by descending name method

```
Enter the choice:8
Usage of Sorting : Column Order
0 is for ascending, and 1 is for descending.
Example:Name 0
Please input your sorting parameter:name 1
This is sorting by descending name method.
                               Address
                                               Email
       Name
               Phone
       Hank
               0907
                       Canada
                                       hank@hank.com.ca
       George 0908
                       Mexico
                                       george@ge.com.mx
       Frank
               0906
                       Russia
                                       frank@frank.com.ru
                                       erina@erina.com.kr
               0905
                       Korea
       Erina
       David
               0904
                       China
                                       david@david.com.cn
       Cindy
               0903
                       Japan
                                       cindy@cindy.co.jp
               0902
                       USA
       Ben
                                       ben@ben.com
       Amy
               0901
                       Taiwan
                                       amy@amy.com.tw
There are 8 contacts in your list.
```

sorting by ascending name method

Usage of Sorting : Column Order

0 is for ascending, and 1 is for descending.

Example:Name 0

Enter the choice:8

Please input your sorting parameter:name 0

This is sorting by ascending name method.

#	Name	Phone	Address	Email
1	Amy	0901	Taiwan	amy@amy.com.tw
2	Ben	0902	USA	ben@ben.com
3	Cindy	0903	Japan	cindy@cindy.co.jp
4	David	0904	China	david@david.com.cn
5	Erina	0905	Korea	erina@erina.com.kr
6	Frank	0906	Russia	frank@frank.com.ru
7	George	0908	Mexico	george@ge.com.mx
8	Hank	0907	Canada	hank@hank.com.ca

sorting by ascending phone method

Enter the choice:8

Usage of Sorting : Column Order

0 is for ascending, and 1 is for descending.

Example:Name 0

Please input your sorting parameter:phone 0

This is sorting by ascending phone method.

#	Name	Phone	Ado	lress	Email
1	Amy	0901	Taiwan	amy@amy	.com.tw
2	Ben	0902	USA	ben@ben	.com
3	Cindy	0903	Japan	cindy@c:	indy.co.jp
4	David	0904	China	david@da	avid.com.cn
5	Erina	0905	Korea	erina@e	rina.com.kr
6	Frank	0906	Russia	frank@fi	rank.com.ru
7	Hank	0907	Canada	hank@hai	nk.com.ca
8	George	0908	Mexico	george@	ge.com.mx
There a	re 8 con	tacts in	your list.		

sorting by descending phone method

Enter the choice:8

Usage of Sorting : Column Order

0 is for ascending, and 1 is for descending.

Example:Name 0

Please input your sorting parameter:phone 1

This is sorting by descending phone method.

#	Name	Phone	А	ddress	Email	
1 2 3 4 5 6 7	George Hank Frank Erina David Cindy Ben Amy	0908 0907 0906 0905 0904 0903 0902 0901	Mexico Canada Russia Korea China Japan USA Taiwan	hank fran erin davi cind ben@	rge@ge.com.mx @hank.com.ca nk@frank.com.ru na@erina.com.kr d@david.com.cn dy@cindy.co.jp Dben.com	

There are 8 contacts in your list.

sorting by ascending address method

Enter the choice:8

Usage of Sorting : Column Order

0 is for ascending, and 1 is for descending.

Example:Name 0

Please input your sorting parameter:address 0

This is sorting by ascending address method.

	Name	Phone	Address	Email
	Hank	0907	Canada	hank@hank.com.ca
2	David	0904	China	david@david.com.cn
3	Cindy	0903	Japan	cindy@cindy.co.jp
4	Erina	0905	Korea	erina@erina.com.kr
5	George	0908	Mexico	george@ge.com.mx
5	Frank	0906	Russia	frank@frank.com.ru
7	Amy	0901	Taiwan	amy@amy.com.tw
8	Ben	0902	USA	ben@ben.com

sorting by descending address method

Enter the choice:8

Usage of Sorting : Column Order

0 is for ascending, and 1 is for descending.

Example:Name 0

Please input your sorting parameter:address 1

This is sorting by descending address method.

#	Name	Phone	Address	Email
1	Ben	0902	USA	ben@ben.com
2	Amy	0901	Taiwan	amy@amy.com.tw
3	Frank	0906	Russia	frank@frank.com.ru
4	George	0908	Mexico	george@ge.com.mx
5	Erina	0905	Korea	erina@erina.com.kr
6	Cindy	0903	Japan	cindy@cindy.co.jp
7	David	0904	China	david@david.com.cn
8	Hank	0907	Canada	hank@hank.com.ca

here are 8 contacts in your list.

sorting by ascending email method

Enter the choice:8

Usage of Sorting : Column Order

0 is for ascending, and 1 is for descending.

Example:Name 0

Please input your sorting parameter:email 0

This is sorting by ascending email method.

amy@amy.com.tw ben@ben.com cindy@cindy.co.jp
cindv@cindv.co.jp
david@david.com.cn
erina@erina.com.kr
frank@frank.com.ru
george@ge.com.mx
hank@hank.com.ca

sorting by descending email method

Enter the choice:8 Usage of Sorting : Column Order 0 is for ascending, and 1 is for descending. Example:Name 0 Please input your sorting parameter:email 1 This is sorting by descending email method. Name Phone Address Email Hank 0907 Canada hank@hank.com.ca George 0908 Mexico george@ge.com.mx Russia Frank 0906 frank@frank.com.ru Erina 0905 erina@erina.com.kr Korea david@david.com.cn David 0904 China Cindy 0903 Japan cindy@cindy.co.jp Ben 0902 USA ben@ben.com Amy 0901 Taiwan amy@amy.com.tw There are 8 contacts in your list.

9. Exit

Enter the choice:0

GoodBye