

## FAQ: How should my program tests/work/display in execution?

Your project has 5 functions named as **create**, **sort\_contact**, **search**, **delete**, **insert** each of them should be tests/work/display in this manner.

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### 1) Create

When you execute your program, it should ask to enter the input file like `./<user_id>_phone_directory.out test_input.txt`.

Now once you have created a dictionary, your program should exactly show an option like this for all the time after every choice execution unless you terminate it.

```
1) sort_contact
2) search
3) delete
4) insert
Enter the Chchoice
```

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### 2) Sort\_contact

In order to sort the contact user need to enter **1** as shown below. Once your program gets input, it should display all the contacts as per the algorithm.

```
1) sort_contact
2) search
3) delete
4) insert
Enter the Chchoice
1
Alice Taylor, (315)234-5678
Alison Miller, (256)579-1234
Jason Smith, (315)124-5876
Jason Smith, (607)123-4567
Tom Miller, (234)789-5068
```

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### 3) Search

In order to search the contact user, need to enter **2** as input as shown below. Once your program gets input, it should ask **"Enter the Name ->"** and user will manually give the name on the terminal and press enter. If contact is there the number should display otherwise it should display **an** message such as **"Name not Found"** as shown below.

```
1) sort_contact
2) search
3) delete
4) insert
Enter the Chchoice
2
Enter the Name -> Tom Miller
Tom Miller, (234)789-5068
```

```
1) sort_contact
2) search
3) delete
4) insert
Enter the Chchoice
2
Enter the Name -> Alex J
Name not Found
```

#### 4) delete

In order to delete the contact user need to enter **3** as input as shown below. Once your program gets input, it should ask **"Enter the Name ->"** and user will manually give the name on terminal and press enter. If contact is there the number should be **delete** and display updated directory otherwise it should display an error message such as as **"Name not Found"** as shown below

```
1) sort_contact
2) search
3) delete
4) insert
Enter the Chchoice
3
Enter the Name -> Alison Miller , (256)579-1234

Alice Taylor, (315)234-5678
Jason Smith, (315)124-5876
Jason Smith, (607)123-4567
Tom Miller, (234)789-5068
```

```
1) sort_contact
2) search
3) delete
4) insert
Enter the Chchoice
3
Enter the Name -> Alex J
Name not Found
```

#### 5) insert

In order to insert the contact user need to enter **4** as input as shown below. Once your program gets input, it should ask **"Enter the Name ->"** and user will manually give the name on terminal and press enter. Once you press the enter your program should display a sorted directory with new entry as shown below.

```

1) sort_contact
2) search
3) delete
4) insert
Enter the Chchoice
4
Enter the Name -> Jenna Watson , (168)478-1234

Alice Taylor, (315)234-5678
Alison Miller, (256)579-1234
Jason Smith, (315)124-5876
Jason Smith, (607)123-4567
Jenna Watson , (168)478-1234
Tom Miller, (234)789-5068

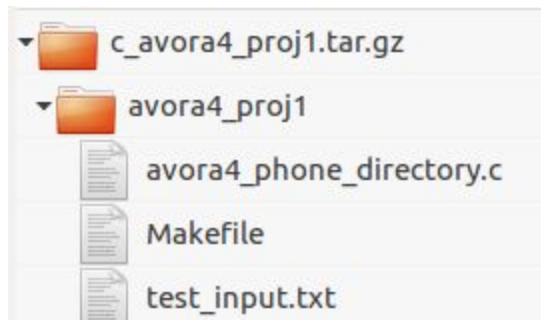
```




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Please strictly follow this conventions which would help us for automated grading.

- Always use “\n” in the beginning of the printf statement to look your output nicer at terminal Eg. printf(“\n Enter the Name”);
- Your Project file name should be <user\_id>\_phone\_directory.c not <user\_id>\_proj1.c which is a folder name like this. Please correct if get confused.



- For input file, follow “./<user\_id>\_phone\_directory.out test\_input.txt” and make your **Makefile** accordingly.
- You don’t need to implement error/validation message for Username is invalid or Number is invalid etc. We will use valid name and number for testing. The only validation / error message need to print is **Name is not found** in the **searching** or **deletion** as per given in assignment.
- We will give only one input at a time for searching and deletion, you don’t have to consider two input at the same time.
- You can not use qsort or any other kind of inbuilt function for searching or sorting.
- In the test\_input file, First Name is the First and Last Name is the Last one. So if there are more than one similar first name, then you will sort as per last name. In case if there are more than one similar First and Last name sort as per the numbers.

If you have any questions feel free to ask me at [avora4@binghamton.edu](mailto:avora4@binghamton.edu)