CASE PROBLEM:
Telephone Directory – DATABASE

Write a program that will store and update a small telephone directory in a **database**. Print the original directory. Then make some insertions and deletions and print the final directory. Use any format for input and output you desire. For example, the header and the elements may be stored as follows.

Information

Name	Address	Telephone
Abel, J. G.	110 Oakleaf	236-4010
Baker, Sue	409 Sunset	645-8978
Carter, L. H.	17 Bernary	567-8766
Minte, Al	204 Pine	356-2453
Point, M. R.	1 Market	212-9841
Sands, T. H.	671 First	734-7261
Lang, Al	311 Moss	716-1111

To solve the problem, complete the step that follow.

a. Input an initial list. Each record should contain:
> name(last, first, middle)
> street address
> phone number

b. Produce an initial list in alphabetical order. Allow one line in each entry for name, street address, and phone number. Include the appropriate headings.

c. Input update records.
> code('I' for insert, 'D' for delete)
> name(last, first, middle)
> street address
> phone number

Each record represents a change. Insert the entries in alphabetical order by last name.

d. Produce a list after all update records have been processed in alphabetical order. Allow one line in each entry for name, street address, and phone number. Include the appropriate headings.