Write a program using link list to manage an Employee database. Each entry in the data file includes three fields: Employee Name, Employee Age, and Employee Salary. Data is semicolon delimited in the file. Your program should read data from the file into a link list in a sorted order by employee name. Your program must be able to open a data file when its name is passed as a **command line argument**. When user adds an employee record, make sure that data goes into a link list in a sorted order. When "**List All Employees**" is selected by the user it should display the employee data in a sorted order by employee name and formatted according the table in figure 1. When user selects "**Exit Employee Database**", write all the data, if need, from the link list to a file and terminate the program gracefully. Display the following menu one the screen after reading the data file into a link list:

```
Menu Options:
        1. Add Employee
        2. Delete Employee
        3. Search Employee
        4. List All Employees
        5. Save Employee Database
        6. Exit Employee Database

Enter Your Choice:
```

Input File Data for Project #3

Use any text editor to enter following data into a file.

```
Patrick Stroud;48;140565
Ursula Spencer;27;36450
Clifton Stillman;65;99900
William Reynolds;37;77550
Dean Niles;53;120000
John Kaufman;53;69597
Paul Kane;51;169650
Paul Goldsmith;60;200000
Larry Godwin;45;59500
Kurt Lamm;39;90000
Susan Carltom;42;85000
Cameron Wu;29;50589
```


Output for Project #3

Figure 1

```
#    Employee Name          Age              Salary
=============================================
1.   Cameron Wu             29               50,589
2.   Clifton Stillman       65               99,900
3.   Dean Niles             53               120,000
4.   John Kaufman           53               69,597
5.   Kurt Lamm              39               90,000
6.   Larry Godwin           45               59,500
7.   Patrick Stroud         48               140,565
8.   Paul Goldsmith         60               200,000
9.   Paul Kane              51               169,650
10.  Susan Carlton          42               85,000
11.  Ursula Spencer         27               36,450
12.  William Reynolds       37               77,550
```

Project #3 Grading Policy

Category	*Points Possible*	Points Received
Correctness and Efficiency	10	
Meaningful variable names.	10	
Usage of **comma in a salary field**	10	
Use of **enum** type.	10	
Command line argument for input file	10	
Deleting an Employee	10	
Adding an Employee in a sorted order while reading a file.	10	
Saving Link List data to a file.	10	
Complete Documentation	10	
User-friendliness and Code Readability	10	
Total	100	

Things to Remember

- Late program turn-in will have 10% penalty per week.
- Use comma in the salary field if salary is greater than 999.99.
- Make sure that you do appropriate error checking. (User-friendliness)
- Do not turn in incomplete or crashing program.
- Use data file that is provided for this assignment.

