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CIS 121 Introduction to Programming Problem Set 12 – Basic Array Processing

You are to create a function that reads in a list of 10 student first names, last names and GPA into and array.
 Once completed, call another function to display the arrays.
 Create a third function to display the arrays in reverse order.

| DataFile.txt | |
|---------------|------|
| JOHN JONES | 3.50 |
| BETTY CROCKER | 4.00 |
| SAM SMITH | 3.50 |
| JOE DOE | 2.75 |
| MIKE MORE | 3.00 |
| JAVIER BAEZ | 3.35 |
| ANTHONY RIZZO | 4.00 |
| DAVID ROSS | 3.90 |
| JOE MADDON | 2.80 |
| THEO EPSTIEN | 4.00 |

2. Read the data file below into arrays using a function. Use another function to display the arrays. Add a loop to the program that asks for a city and then displays the city and population for the value entered. If city not found, display a not found message. See below. Use a sequential search for the city.

Example:

Enter city name, ctl+z to stop: Chicago Chicago has a population of 4000000 Enter city name, ctl_z to stop: Denver Denver has a population of 2500000 Enter city name, ctl_z to stop: Rockford Rockford not found Enter city name, ctl_z to stop: ctl+z Goodbye. Have a nice day.

| Population.txt | |
|----------------|---------|
| Chicago | 4000000 |
| Denver | 2500000 |
| Milwaukee | 3000000 |
| Detroit | 2200000 |
| Oklahoma | 1250000 |
| Dallas | 2100000 |
| Houston | 1750000 |
| Indianapolis | 1400000 |

3. Make an array of 10 employees (first name, last name, salary). Read the data file below and load it into the arrays. Use a function to display the arrays. Repeatedly ask the use for a last name. Use a function to perform a sequential search on the array last name. If the last name is found display first name, last name and salary. If the last name is not found. Display last name and message "not found".

| Empldata.txt | | |
|---------------|-----------|--|
| John Jones | 55000.00 | |
| Frank Smith | 75000.00 | |
| Mark Smith | 45000.00 | |
| Dave Roberts | 80000.00 | |
| Sally Davis | 90000.00 | |
| Tom Hanks | 100000.00 | |
| Betty Crocker | 98000.00 | |
| Sue Klein | 78000.00 | |
| Joe Maddon | 65000.00 | |
| Kris Bryant | 70000.00 | |