

EE2160: C++ Structures Exercise

A database keeps track of TV programming using C++ structures with the following data members. Create a struct **TV_Program** with these data members:

```
string programName;  
char weekday; // M, T, W, R, F  
int minutes; // Running time
```

1. Write a C++ program that will use an array of structs (the struct data type should have the data members above) to keep records of five TV shows. In the program:
 - a. Your program should ask the user to input the information for 5 TV shows (read all the information into the array first) and then print out all the information from the array as shown on the output sample below:

Optional:

2. Implement a sorting algorithm and print out your 5 records in ascending order by sorting the records based on the *programName*.

Sample Output:

```
-bash-4.1$ g++ structTVShows.cpp -o tvShows  
-bash-4.1$ ./tvShows  
TV SHOW NUMBER 1:  
Enter the name of the TV Program:  
Friends  
Enter the day of the week the show is on:  
M  
Enter the running time in minutes:  
45  
  
TV SHOW NUMBER 2:  
Enter the name of the TV Program:  
Empire  
Enter the day of the week the show is on:  
T  
Enter the running time in minutes:  
43  
  
TV SHOW NUMBER 3:  
Enter the name of the TV Program:  
Castle  
Enter the day of the week the show is on:  
W  
Enter the running time in minutes:  
42
```

TV SHOW NUMBER 4:

Enter the name of the TV Program:

Vikings

Enter the day of the week the show is on:

R

Enter the running time in minutes:

50

TV SHOW NUMBER 5:

Enter the name of the TV Program:

Sherlock

Enter the day of the week the show is on:

F

Enter the running time in minutes:

30

TV SHOW 1 INFORMATION:

Program Name: Friends

Day of the Week: M

Running time: 45 minutes

TV SHOW 2 INFORMATION:

Program Name: Empire

Day of the Week: T

Running time: 43 minutes

TV SHOW 3 INFORMATION:

Program Name: Castle

Day of the Week: W

Running time: 42 minutes

TV SHOW 4 INFORMATION:

Program Name: Vikings

Day of the Week: R

Running time: 50 minutes

TV SHOW 5 INFORMATION:

Program Name: Sherlock

Day of the Week: F

Running time: 30 minutes