EXTRA ASSIGNMENT

1. Write a program in C language that has an array of words, and then outputs the longest word in the list where at least 3 consonants and 3 vowels must be present.

2. Write a program in C language that contains an array of numbers, and then computes the sum of the digits of each number in the list. The program should print the sum of digits for each number. Then total sum of digits of the numbers for the entire list and sum of each distinct number all together . compare both of the sum and print which sum is the greater(sum of the digits of the numbers or sum of the numbers)

3. Write a program in C language that reads in a text file containing a list of phone numbers, and then outputs the phone numbers that are formatted incorrectly and then make a structure of a number containing sim company code(such as 019-Banglalink,016-Airtel,017-grameenphone,,018-Robi). So print the name of the companies that have the most incorrect format in the file.

4. Write a program in C language that creates a structure to represent a car, with fields for the make, model, year, and price. The program should read in a list of cars from a text file and allow the user to search for cars by make or model, and sort them by year or price.

5. Write a program in C language that uses recursion to determine whether a given string is a palindrome. If it is palindrome insert $ in between every two letters like(MADAM is palindrome so, you should print— $M$$A$$$D$$$A$$M$, IF MADDAM then $M$$A$$$D$$$$D$$$A$$M$)