Assignment 4

1. Linear search: Enter an array of numbers, and then search for a particular number (ask the number to be searched from the user). If the number is present in the array, the program should print both the searched number and its position in the array. (Ignore multiple occurrence and report only the first occurrence).

2. Modify the previous program to take into account multiple occurrence of the searched number and print the number of times the searched number occurs.

3. Write a program for linear search in a matrix (3 X 3 matrix) ignoring multiple occurrences.

4. Modify previous matrix search program to include multiple occurrence.

5. Ask the user to enter n numbers. Write a program which finds two numbers after the last even number.

6. Ask the user to enter n numbers. Write program, which finds the number immediately before the second last even number.

7. Find how many numbers are maximum in a given set of numbers. e.g. if n=11 and given numbers are 7, 6, 3, 7, 7, 1, 8, 7, 8, 1,4, then answer is 2 because the maximum number 8 occurs 2 times.