1-Write a program that:

* Reads N integer numbers from the user into a 1D array.
* Calculates and prints the sum and average of the elements.

2- Write a program that:

* Accepts an array of N integers from the user.
* Asks for a number x to search.
* Prints whether x is present in the array or not (and its position if found).

3. Count Even and Odd Numbers

Write a program that:

* Reads N integers into an array.
* Counts and prints the total number of even and odd numbers in the array.

4-Write a program that:

* Reads an MxN matrix from the user.
* Calculates and prints its transpose.

5-Write a program that:

* Reads two matrices (size MxN and NxP) from the user.
* Multiplies them and displays the resulting matrix.

6-Write a program that:

* Reads an MxN matrix from the user.
* Calculates and displays the sum of each row and each column.