Assignment 1

For all the programs array size and type can be assumed to be 10 and int by default. Use #define macro for size.

1. Write a program that calculates the sum of squares of the elements of an integer array of size 10.
2. Display array elements in reverse. i.e. from last to first.
3. Display elements of array in triangle pattern. Use formatting to get a uniform display.
   Eg:

   > A = {60,700,80,900,10}
   > Output:
   > 60
   > 60 700
   > 60 700 80
   > 60 700 80 900
   > 60 700 80 900 10

4. Take 20 integer inputs from user and print the following:

   > number of positive numbers
   > number of negative numbers
   > number of odd numbers
   > number of even numbers
   > number of 0.

5. Write a program to check if elements of an array are same or not it read from front or back. E.g.-

   | 12 | 30 | 25 | 25 | 30 | 12 |