```cpp
#include <iostream>
using namespace std;
int main ()
{
// ******* keep on inserting until (*) or any other chosen character *******//
    int A [1000];
    cout << "Please enter your numbers (end it with *)" <<endl;
    int X;
    cin >> X;
    int n=0;
    while (cin)
    {
        A[n]=X;
        n++;
        cin >> X;
    } // n is now the length of the array
    //or
// ******* keep on inserting until -999
    int A [1000];
    cout << "Please enter your numbers (end it with *)" <<endl;
    int X;
    cin >> X;
    int n=0;
    while (X!=-999)
    {
        A[n]=X;
        cin >> X;
    }
    //or
// ****** specify the number of numbers you want to insert
    int A[1000];
    int n;
    cout << "Please enter the number of numbers you want to insert" << endl ;
    cin >> n;
    cout << "Enter your numbers seperated by spaces" <<endl;
    for (int i =0 ; i <n ; i++)
    {
        cin >> A[i];

    }
    // and
// ****** print every number that is in the array

    for (int i = 0 ; i < n; i++)
    {

        cout << A[i] << " ";
    }


// ****** print every even number that is in the array

    for (int i = 0 ; i < n; i++)
    {
        if (A[i]%2==0)
        cout << A[i] << " ";
    }


// ****** Add or multiply or do any other operation with the numbers in the
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    array:
    for (int i =0 ; i < n ; i++)
    {

        A[i]= A[i]+2;
        // or
        A[i]= A[i]*62345;

    }

// ***** compute the sum and average of numbers inside an array
    int sum = 0 ;
    int avg=0;
    for (int i =0 ; i <n ; i++)
    {

        sum = sum+ A[i];
    }
    avg = sum / n;

// **** sum/avg of negative and positive numbers

    //nn: non negative
    // n: negative


    int nnNumber=0;
    int nNumber=0;
    int nSum=0;
    int nnSum=0;
    int nnAvg=0;
    int nAvg=0;
    for (int i=0; i < n ; i++)
    {
        if (A[i] <0) {
            nNumber ++;
            nSum= nSum+ A[i];

        }
        else {
            nnNumber++;
            nnSum= nnSum + A[i];
        }

    }
    nnAvg = nnSum / nnNumber;
    nAvg = nSum / nNumber;

// **** sum/avg of even and odd ***

    int oddNumber=0;
    int evenNumber=0;
    int evenSum=0;
    int oddSum=0;
    int oddAvg=0;
    int evenAvg=0;
    for (int i=0; i < n ; i++)
    {
        if (A[i] %2==0) {
            evenNumber ++;
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            nSum= nSum+ A[i];

        }
        else {
            oddNumber++;
            oddSum= oddSum + A[i];
        }

    }
    oddAvg = oddSum / oddNumber;
    evenAvg = evenSum / nNumber;


    return 0;
}
```