

Q.2 WAP to read a list of integers and store it in a single dimensional array. Write a C program to count and display positive, negative, odd and even numbers in an array.

```
#include <stdio.h>
```

```
int main() {
    int n, i, pos = 0, neg = 0, odd = 0, even = 0;
    printf("Enter number of elements : ");
    scanf("%d", &n);

    int arr[n];
    printf("Enter %d integers: \n", n);
    for (i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
        if (arr[i] > 0) pos++;
        else if (arr[i] % 2 == 0) even++;
        else odd++;
    }

    printf("Positive numbers : %d \n", pos);
    printf("Negative numbers : %d \n", neg);
    printf("Even numbers : %d \n", even);
    printf("Odd numbers : %d \n", odd);

    return 0;
}
```

Remarks:

Teacher's Signature _____

main.c



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Output

```
1 #include <stdio.h>
2
3 void main() {
4     int n, i;
5     int pos = 0, neg = 0, odd = 0, even = 0;
6
7     printf("Enter number of elements: ");
8     scanf("%d", &n);
9
10    // Array declaration must come after 'n' is read
11    int arr[n];
12
13    printf("Enter %d integers:\n", n);
14    for (i = 0; i < n; i++) {
15        scanf("%d", &arr[i]);
16
17        // Check for Positive/Negative/Zero
18        if (arr[i] > 0) {
19            pos++;
20        } else if (arr[i] < 0) {
21            neg++;
22        }
23
24        // Check for Even/Odd (Zero is considered even)
25        if (arr[i] % 2 == 0) {
26            even++;
27        }
28    }
29}
```

Enter number of elements: 6

Enter 6 integers:

-5

10

0

-3

7

22

Positive numbers: 3

Negative numbers: 2

Even numbers: 3

Odd numbers: 3

=== Code Exited With Errors ===

