

Q.3 WAP to read a list of integers and store it in a single dimensional array. Write a C program to find the frequency of a particular number in a list of integers.

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

```
int main() {  
    int n, i, num, count = 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]);
```

```
    printf("Enter number to find frequency:");  
    scanf("%d", &num);
```

```
    for (i = 0; i < n; i++)  
        if (arr[i] == num) count++;
```

```
    printf("frequency of %d = %d |n", num, count);
```

```
    return 0;
```

```
}
```

Remarks:

Teacher's Signature \_\_\_\_\_



main.c



Share

Run

Output

```
1 #include <stdio.h>
2
3 void main() {
4     int n, i;
5     int num, count = 0;
6
7     printf("Enter number of elements: ");
8     scanf("%d", &n);
9
10    int arr[n];
11
12    printf("Enter %d integers:\n", n);
13    for (i = 0; i < n; i++) {
14        scanf("%d", &arr[i]);
15    }
16
17    printf("Enter number to find frequency: ");
18    scanf("%d", &num);
19
20    for (i = 0; i < n; i++) {
21        if (arr[i] == num) {
22            count++;
23        }
24    }
25
26    printf("Frequency of %d = %d\n", num, count);
27 }
```

```
Enter number of elements: 7
Enter 7 integers:
10
25
10
50
25
10
5
Enter number to find frequency: 10
Frequency of 10 = 3
```