

```
C sum.c C p_nc C AREA2.c C VOLUME1.c C VOLUME2.c C VOLUME3.c C sum.c C diff_triangles.c C 02_labTest.c  
C abc>~  
1 // Q105: Write a program to take an integer array num of size n, and print the majority element. The majority element is the element  
2 //  
3 /*  
4 Sample Test Cases:  
5 Input 1:  
6 nums = [3,2,3]  
7 Output 1:  
8 3  
9  
10 Input 2:  
11 nums = [2,2,1,1,1,2,2]  
12 Output 2:  
13 2  
14  
15 Input 3:  
16 nums = [2,2,1,1,1,2,2,3]  
17 Output 3:  
18 -1  
19  
20 */  
21  
22 #include <stdio.h>  
23  
24 int main() {  
25     int n, i, j, count, majority = -1;  
26     printf("Enter number of elements: ");  
27     scanf("%d", &n);  
28     int nums[n];  
29     printf("Enter %d elements: ", n);  
30     for (i = 0; i < n; i++)  
31         scanf("%d", &nums[i]);  
32     for (i = 0; i < n; i++) {  
33         count = 0;  
34         for (j = 0; j < n; j++) {  
35             if (nums[i] == nums[j])  
36                 count++;  
37         }  
38         if (count > n / 2) {  
39             majority = nums[i];  
40             break;  
41         }  
42     }  
43     printf("%d\n", majority);  
44     return 0;  
45 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\drago\OneDrive\Desktop\C.H.W> gcc ./abc.c  
PS C:\Users\drago\OneDrive\Desktop\C.H.W> ./a.exe  
Enter number of elements: 3  
Enter 3 elements: 3 2 3  
3  
PS C:\Users\drago\OneDrive\Desktop\C.H.W> gcc ./abc.c  
PS C:\Users\drago\OneDrive\Desktop\C.H.W> ./a.exe  
Enter number of elements: 7  
Enter 7 elements: 2 2 1 1 1 2 2  
2  
PS C:\Users\drago\OneDrive\Desktop\C.H.W> gcc ./abc.c  
PS C:\Users\drago\OneDrive\Desktop\C.H.W> ./a.exe  
Enter number of elements: 8  
Enter 8 elements: 2 2 1 1 1 2 2 3  
-1  
PS C:\Users\drago\OneDrive\Desktop\C.H.W>
```