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C abc.c > _
1 // Q105: Write a program to take an integer array nums 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>

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