Elite-S009-Arrays

Solved Challenges 0/2



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Array - Majority Element

ID:4739 Solved By 702 Users

The program must accept an integer array of size **N** as the input. The program must print the majority element in the given array as the output. The majority element is an integer that appears more than N/2 times in an array. If there is no such integer, the program must print No Majority Element as the output.

Boundary Condition(s):

1 <= N <= 10^5

1 <= Each integer value <= 10^8

Input Format:

The first line contains N.

The second line contains N integers separated by a space.

Output Format:

The first line contains the majority element in the given array or No Majority Element.

Example Input/Output 1:

Input:

45464

Output:

4

Explanation:

The integer 4 has occurred 3 times.

The integer **5** has occurred **1** time.

The integer **6** has occurred **1** time.

Here, the integer 4 has occurred more than **5/2** times.

Hence the output is 4

Example Input/Output 2:

Input:

10 20 10 5 10 10 5 10

Output:

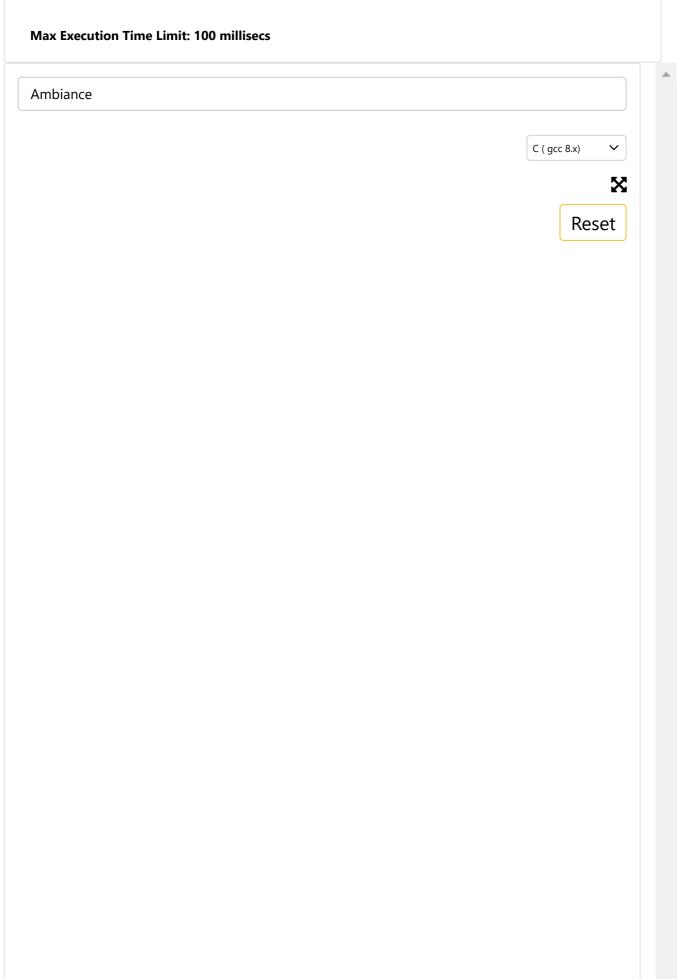
10

Example Input/Output 3:

Input:

28 74 28 74 28 74

Output: No Majority Element



```
1
   #include<stdio.h>
 2
   #include<stdlib.h>
 3
 4
   int main()
 5
   {
 6
        int N;
 7
        scanf("%d",&N);
 8
        int arr[N];
 9
        for(int i=0;i<N;i++)</pre>
10
             scanf("%d",&arr[i]);
11
        int maj element = arr[0];
12
13
        int counter = 1;
14
        for(int index=1;index<N;index++)</pre>
15
             if(arr[index] == maj element)
16
17
             counter++;
             else
18
19
             {
20
                 counter--;
21
                 if(counter==0)
22
23
                      maj element = arr[index];
24
                      counter = 1;
25
                 }
             }
26
27
        }
        int count = 0;
28
        if(counter>0)
29
30
        {
31
             for(int index=0;index<N;index++)</pre>
32
             {
                 if(arr[index]==maj element)
33
34
                      count++;
35
             if(count>(N/2))
36
             printf("%d",maj_element);
37
38
             else
39
             printf("No Majority Element");
40
        }
41
    }
```

Code did not pass the execution

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Your Program Output:

