

Elite-S009-ArraysSolved Challenges **0/2**[Back To Challenges List](#)**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): $1 \leq N \leq 10^5$ $1 \leq \text{Each integer value} \leq 10^8$ **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:

5

4 5 4 6 4

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:

8

10 20 10 5 10 10 5 10

Output:

10

Example Input/Output 3:

Input:

6

28 74 28 74 28 74

Output:
No Majority Element

Max Execution Time Limit: 100 millisecs

Ambiance

C (gcc 8.x) 



Reset

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

Code did not pass the execution

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Your Program Output:

Segmentation fault (core dumped)

Save

Run

☒ Run with a custom test case (Input/Output)

Your input

8
10 20 10 5 10 10 5 10

Your expected output

10