**Ignatius and the Princess IV**

**Time Limit: 2000/1000 MS (Java/Others)    Memory Limit: 65536/32767 K (Java/Others)  
Total Submission(s): 18577    Accepted Submission(s): 7510**

**Problem Description**

"OK, you are not too bad, em... But you can never pass the next test." feng5166 says.  
  
"I will tell you an odd number N, and then N integers. There will be a special integer among them, you have to tell me which integer is the special one after I tell you all the integers." feng5166 says.  
  
"But what is the characteristic of the special integer?" Ignatius asks.  
  
"The integer will appear at least (N+1)/2 times. If you can't find the right integer, I will kill the Princess, and you will be my dinner, too. Hahahaha....." feng5166 says.  
  
Can you find the special integer for Ignatius?

**Input**

The input contains several test cases. Each test case contains two lines. The first line consists of an odd integer N(1<=N<=999999) which indicate the number of the integers feng5166 will tell our hero. The second line contains the N integers. The input is terminated by the end of file.

**Output**

For each test case, you have to output only one line which contains the special number you have found.

**Sample Input**

5

1 3 2 3 3

11

1 1 1 1 1 5 5 5 5 5 5

7

1 1 1 1 1 1 1

**Sample Output**

3

5

1

**Author**

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**Recommend**

We have carefully selected several similar problems for you:  [1074](http://acm.hdu.edu.cn/showproblem.php?pid=1074) [1171](http://acm.hdu.edu.cn/showproblem.php?pid=1171) [1203](http://acm.hdu.edu.cn/showproblem.php?pid=1203) [1087](http://acm.hdu.edu.cn/showproblem.php?pid=1087) [1114](http://acm.hdu.edu.cn/showproblem.php?pid=1114)