https://course.acciojob.com/idle?question=305101b2-ef3c-4980-a682-41f985957688

- EASY
- Max Score: 30 Points

Lone Element

You are given a sorted array 'A' containing positive integers 'N'.

Every element in the array is a duplicate except for one.

Your task is to find the single element.

Input Format

The first line contains the number of test cases.

For each test case: The first line contains an integer 'N' denoting the number of elements.

The second line contains N spaced integers denoting the elements of the array.

Output Format

For each test case return the single element;

Example 1

Input

```
1
5
1 1 2 3 3
```

Output

```
2
```

Explanation

As 2 is the only single element, the answer is 2.

Example 2:

Input

```
1
7
1 1 2 2 4 4 10
```

Output

```
10
```

Explanation

As 10 is the only single element, the answer is 10.

Constraints

1 <= T <= 10

1 <= N <= 10000

1 <= A[i] <=100000

Topic Tags

- **Arrays**

My code

```
// in java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
	public static void main (String[] args) throws java.lang.Exception
	{
		//your code here
		Scanner s=new Scanner(System.in);
		int t=s.nextInt();
		for(int i=0;i<t;i++)
		{
		    int n=s.nextInt();
		       int arr[]=new int[n];
		       for(int j=0;j<n;j++)
		            arr[j]=s.nextInt();
		          for(int j=0;j<n-1;j=j+2)
		                {
		                    if(arr[j]!=arr[j+1])
		                    {
		                        System.out.println(arr[j]);
		                            break;
		                    }
		                }
		           if(arr[n-2]!=arr[n-1])
		                    {
		                        System.out.println(arr[n-1]);
```

```
                                    }

                }
            }
        }
```