**Non-Repeating Element**

Submissions: [4235](https://practice.geeksforgeeks.org/problem_submissions.php?pid=2791)  Accuracy:

44.54%

   Difficulty: [Easy](https://practice.geeksforgeeks.org/Easy/0/0/)   Marks: 2

Associated Course(s): [Interview Preparation](https://practice.geeksforgeeks.org/courses/interview-preparation/)[Sudo Placement [IITs]](https://practice.geeksforgeeks.org/courses/sudo%20placement-IIT/)

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Find the first non-repeating element in a given array**A** of **N** integers.  
**Note:** Array consists of only positive and negative integers and **not zero**.

**Input:**  
The first line of input is an integer**T**, denoting the number of test cases. Each test case has subsequent two lines of input. First line is an integer **N**, denoting size of integer array **A**. Second line consists of **N** space separated integers of the array **A**.

**Output:**  
For each testcase, print the required answer. If no such element exists, then print **0**

**Constraints:**  
1 <= T <= 100;  
1 <= N <= 107;  
-1016 <= Ai<= 1016  
{Ai !=0 }

**Example:  
Input:**  
4  
5  
-1 2 -1 3 2  
6  
9 4 9 6 7 4  
3  
1 1 1  
2  
-3 2  
**Output:**  
3  
6  
0  
-3

**Explanation:**  
**Testcase1:**-1 and 2 are repeating whereas 3 is the only number occuring once. Hence, the output is 3.  
**Testcase2:** There are 3 distinct integers, 9, 4 and 5, but they all are repeating. There is no non-repetitive element in the array. Hence, the output is**0**.  
**Testcase3:** -1 and 3 are non-repeating. -1 occurs before 3 in the array. Hence, the output is -1.  
**Testcase4:** There are two distinct elements occuring only once in the array, with 6 occuring before 7. Hence, output is 6.  
**Testcase5:** The only non-repeating element is -3. Hence, output is -3.

\*\* For More Input/Output Examples Use ['Expected Output'](https://practice.geeksforgeeks.org/problems/non-repeating-element/0#ExpectOP) option \*\*

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<https://practice.geeksforgeeks.org/problems/non-repeating-element/0>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

static long FirstNonRepeatingElement(long[] a)

{

Dictionary<long, int> frec =

new Dictionary<long, int>();

for(int i =0; i<a.Length; i++)

{

if(frec.ContainsKey (a[i]) ) frec[a[i]]++;

else frec[a[i]] = 1;

}

for(int i =0; i<a.Length; i++)

{

if (frec[a[i]] == 1) return a[i];

}

return -1;

}

static void Main(string[] args)

{

int t = int.Parse(Console.ReadLine().Trim());

while(t-- > 0)

{

int n = int.Parse(Console.ReadLine().Trim());

long[] arr = Array.ConvertAll(Console.ReadLine().Trim().Split(' '), e => long.Parse(e));

Console.WriteLine(FirstNonRepeatingElement(arr));

}

Console.ReadLine();

}

}

}