Find the unique Number

There will be odd number of element in array, and each number has a pair except one element. Find that unique element

Input

T = number of test cases

N = size of array

a1, a2, ... an array element

Output

Unique number

Example

Input:
2
5
2 1 2 3 1
7
3 3 5 4 5 4 5

Output:
3
5

limit:
T<=100
N<=10^5
ai <= 10^10