# Find duplicates under given constraints

Given a sorted array having 10 elements which contains 6 different numbers in which only 1 number is repeated five times. Your task is to find the duplicate number using two comparisons only.

Examples:

```
Input: A[] = {1, 1, 1, 1, 1, 5, 7, 10, 20, 30}
Output: 1

Input: A[] = {1, 2, 3, 3, 3, 3, 3, 5, 9, 10}
Output: 3
```

**Input:**
The first line of input contains an integer T denoting the no of test cases. Then T test cases follow . Each test case contains 10 space separated values of the array A[].

**Output:**
For each test case in a new line print the required duplicate element.

**Constraints:**
1<=T<=100
1<=A[]<=10^5+5

**Example:**
**Input:**
2
1 2 4 5 6 9 9 9 9 9
1 2 3 3 3 3 3 5 9 10

**Output:**

9
3