



2 Questions

Total Marks: 200.0

Question 2

Max. Marks 100.00



2 Programming Questions

1. Policemen and thieves + 100.0

2. Missing Number + 100.0

Missing Number

You are given an array A . You can decrement any element of the array by 1. This operation can be repeated any number of times. A number is said to be missing if it is the smallest positive number which is a multiple of 2 that is not present in the array A . You have to find the maximum missing number after all possible decrements of the elements.

Input Format:

The first line of input contains T denoting number of test cases.

The first line of each test case contains N , the size of the array.

The second line of each test case contains N space separated integers.

Output Format:

Print the answer for each test case in a new line.

Constraints:

$$1 \leq T \leq 10$$

$$1 \leq N \leq 10^5$$

$$0 \leq A_i \leq 10^9$$

Sample Input



Sample Output



```
2
6
1 3 3 3 6 7
3
3 0 2
```

```
8
4
```

Explanation