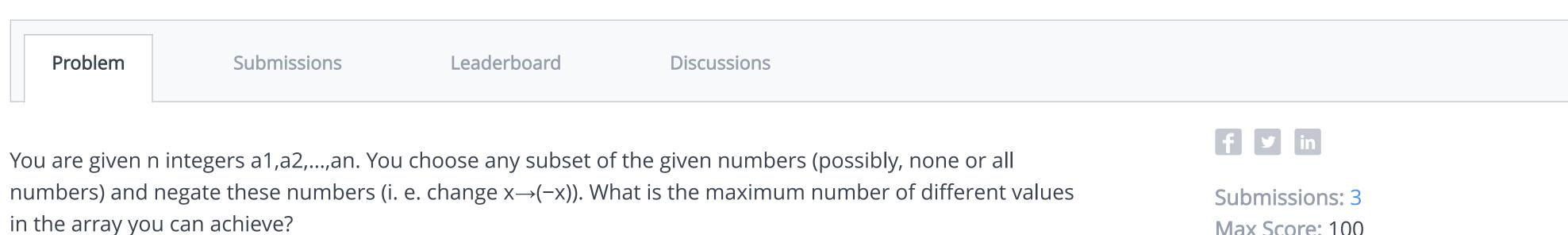
2nd year Diversity in Array



Q Search



Input Format

The first line of input contains one integer t (1≤t≤100): the number of test cases.

The next lines contain the description of the t test cases, two lines per a test case.

In the first line you are given one integer n ($1 \le n \le 100$): the number of integers in the array.

The second line contains n integers a1,a2,...,an (-100≤ai≤100).

Constraints

1≤t≤100

1≤n≤100

-100≤ai≤100

Output Format

For each test case, print one integer: the maximum number of different elements in the array that you can achieve negating numbers in the array.

Sample Input 0

```
3
4
1 1 2 2
3
1 2 3
2
0 0
```

Sample Output 0

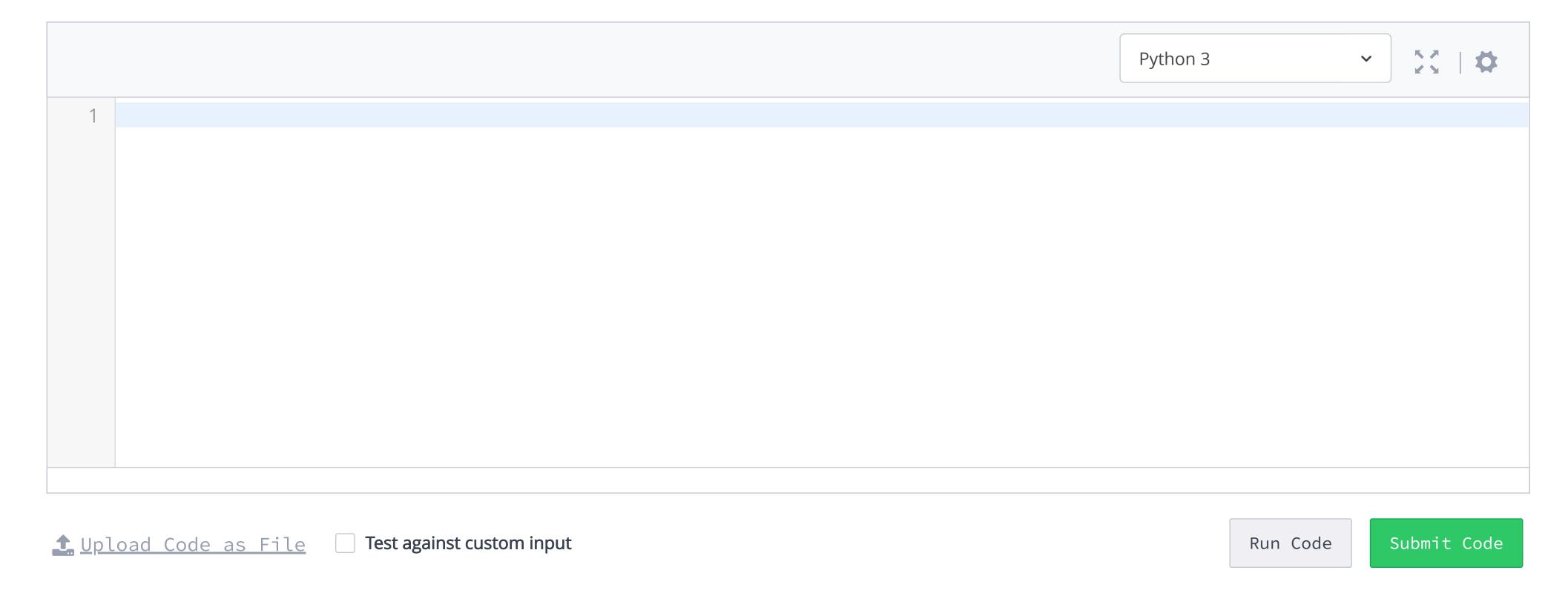
4 3 1

Explanation 0

In the first example we can, for example, negate the first and the last numbers, achieving the array [-1,1,2,-2] with four different values.

In the second example all three numbers are already different.

In the third example negation does not change anything.



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