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Distinct absolute array elements

Submissions: 4422 (/problem_submissions.php?pid=903) Accuracy: 54.7% Difficulty: Easy
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Problems

Count the number of **distinct absolute values** from a sorted array containing **N** integers. An absolute value of a number is $|a|$ (positive) value of it.

Input

The first line of input contains an integer **T** denoting the number of test cases. Then **T** test cases follow.

The first line of each test case contains an integer **N**, where **N** is the size of the array **A[]**.

The second line of each test case contains **N** space separated sorted integers, denoting elements of the array

A[].

Note: The array can contain duplicate values.

Output:

For each test case output a single line containing the **no of distinct absolute values** present in the array .

Remember to output the answer of each test case in a new line.

Constraints:

$1 \leq T \leq 100$

$1 \leq N \leq 30$

$-10^9 \leq A[i] \leq 3 \cdot 10^9$

Examples :**Input:**

```
3
4
-35 73 73 73
9
-44 -31 -6 6 46 52 52 55 93
6
-3 -2 0 3 4 5
```

Output:

```
2
7
5
```

Expected Time Complexity:

$O(n)$

**** For More Input/Output Examples Use 'Expected Output' option ****

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