Amount without opposite value X30197_en

For a sequence of n integers given in strictly increasing order, we want to count how many integers x are such that x occurs in the sequence but $-x$ does not. For example, for the sequence $-8, -4, -3, -1, 3, 5, 8$, we have that -4 occurs in the sequence but $-(-4) = 4$ does not, that -1 occurs in the sequence but $-(-1) = 1$ does not, and that 5 occurs but -5 does not occur in the sequence. Thus, the answer is 3.
Note: To get the problem accepted, you should solve it in linear time.
Exam score: 2.5 **Automatic part:** 100%

Input

The first line of the input has an integer n. The second line has n integers.

Output

The output has a natural number, that is the answer of the problem, followed by a line break.

Sample input 1

```
8
-8 -4 -3 -1 0 3 5 8
```

Sample output 1

```
3
```

Sample input 2

```
7
-8 -4 -3 -1 3 5 8
```

Sample output 2

```
3
```

Problem information

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