

Contest Duration: 2025-08-02(Sat) 22:00 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20250802T2100&p1=248>) - 2025-08-02(Sat) 23:40 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20250802T2240&p1=248>) (local time) (100 minutes)

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## C - Distance Indicators

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Time Limit: 2 sec / Memory Limit: 1024 MiB

Score : 300 points

### Problem Statement

You are given an integer sequence  $A = (A_1, A_2, \dots, A_N)$  of length  $N$ .

Find how many pairs of integers  $(i, j)$  ( $1 \leq i < j \leq N$ ) satisfy  $j - i = A_i + A_j$ .

### Constraints

- $1 \leq N \leq 2 \times 10^5$
- $1 \leq A_i \leq 2 \times 10^5$  ( $1 \leq i \leq N$ )
- All input values are integers.

### Input

The input is given from Standard Input in the following format:

```
N
A_1 A_2 ... A_N
```

### Output

Output the answer.

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## Sample Input 1

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```
9
3 1 4 1 5 9 2 6 5
```

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## Sample Output 1

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```
3
```

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For example, when  $(i, j) = (4, 7)$ , we have  $j - i = 7 - 4 = 3$  and  $A_i + A_j = 1 + 2 = 3$ , so  $j - i = A_i + A_j$ .

In contrast, when  $(i, j) = (3, 8)$ , we have  $j - i = 8 - 3 = 5$  and  $A_i + A_j = 4 + 6 = 10$ , so  $j - i \neq A_i + A_j$ .

Only the three pairs  $(i, j) = (1, 9), (2, 4), (4, 7)$  satisfy the condition, so output 3.

## Sample Input 2

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```
3
123456 123456 123456
```

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## Sample Output 2

[Copy](#)

```
0
```

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There may be no pairs that satisfy the condition.

## Sample Input 3

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```
30
8 3 6 4 9 6 5 6 5 6 3 4 7 3 7 4 9 8 5 8 3 6 8 8 4 5 5 5 6 5
```

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## Sample Output 3

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```
17
```

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