

Contest Duration: 2025-12-06(Sat) 23:00 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20251206T2100&p1=248>) - 2025-12-07(Sun) 00:40 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20251206T2240&p1=248>) (local time) (100 minutes)

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C - Domino

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Time Limit: 2 sec / Memory Limit: 1024 MiB

Score : 300 points

Problem Statement

There are N dominoes standing in a row on a number line. The i -th domino is standing at coordinate i and has height A_i .

When the i -th domino falls to the right, all dominoes in the range between coordinates i and $i + A_i - 1$, inclusive, fall to the right.

How many dominoes will fall in total when the first domino falls to the right?

Constraints

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

Input

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

N

$A_1 \ A_2 \ \dots \ A_N$

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Output

Output the number of dominoes that fall when the first domino falls to the right.

Sample Input 1

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```
4  
3 1 4 1
```

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Sample Output 1

[Copy](#)

```
4
```

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When the first domino falls to the right, the second and third dominoes also fall to the right.

When the third domino falls to the right, the fourth domino also falls.

Sample Input 2

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

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Sample Output 2

[Copy](#)

```
1
```

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When the first domino falls to the right, no other dominoes will fall.

Sample Input 3

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```
10  
5 4 3 2 1 1 2 3 4 5
```

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Sample Output 3

[Copy](#)

```
5
```

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