

Jumping values

A number sequence is in increasing order.

Give the count of places where there is a jump in the sequence: $A_{i+1} - A_i > 1$

Input

The first line of the *standard input* contains the length of the number sequence ($1 \leq N \leq 100$). The next N lines contain the elements of the sequence (integers, maximum 1000).

Output

The first line of the *standard output* should contain the count of jumps.

Example

<i>Input</i>	<i>Output</i>
6	2
1	
2	
4	
5	
5	
7	

Limits

Time limit: 0.1 second

Memory limit: 32 MB