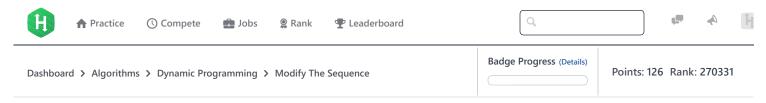
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# Modify The Sequence **■**



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You are given a sequence of integers  $a_1, a_2, a_3, \dots, a_n$ . You are free to replace any integer with any other positive integer. How many integers must be replaced to make the resulting sequence strictly increasing?

## **Input Format**

The first line of the test case contains an integer  $\emph{N}$  - the number of entries in the sequence.

The next line contains N space separated integers where the  $i^{th}$  integer is  $a_i$ .

#### **Output Format**

Output the minimal number of integers that should be replaced to make the sequence strictly increasing.

## **Constraints**

 $0 < N \le 10^6$ 

 $0 < a_i \le 10^9$ 

## Sample Input #00

3 4 10 20

## Sample Output #00

0

## Sample Input #01

6 1 7 10 2 20 22

# Sample Output #01

1

# Sample Input #02

1 2 2 3 4

## Sample Output #02

3

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### **Explanation**

In the first sample input, we need not replace anything, hence the output is 0.

In the second sample input, we can replace 2 with any integer between 11 and 19 to make the sequence strictly increasing, hence the output is 1. In the third sample input, we can obtain 1, 2, 3, 4, 5 by changing the last three elements of the sequence.

f in Submissions:<u>1150</u> Max Score:100 Difficulty: Advanced Rate This Challenge: ☆☆☆☆☆



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