



CSES Problem Set

Playlist

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Time limit: 1.00 s **Memory limit:** 512 MB

You are given a playlist of a radio station since its establishment. The playlist has a total of n songs.

What is the longest sequence of successive songs where each song is unique?

Input

The first input line contains an integer n : the number of songs.

The next line has n integers k_1, k_2, \dots, k_n : the id number of each song.

Output

Print the length of the longest sequence of unique songs.

Constraints

- $1 \leq n \leq 2 \cdot 10^5$
- $1 \leq k_i \leq 10^9$

Example

Input:

8
1 2 1 3 2 7 4 2

Output:

5

Sorting and Searching

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[Missing Coin Sum](#)



[Collecting Numbers](#)



[Collecting Numbers II](#)



[Playlist](#)



[Towers](#)



[Traffic Lights](#)



[Josephus Problem I](#)



[Josephus Problem II](#)



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Your submissions

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