Fruit Into Baskets

You are visiting a farm that has a single row of fruit trees arranged from left to right. The trees are represented by an integer array fruits where fruits[i] is the **type** of fruit the ith tree produces.

You want to collect as much fruit as possible. However, the owner has some strict rules that you must follow:

- You only have **two** baskets, and each basket can only hold a **single type** of fruit. There is no limit on the amount of fruit each basket can hold.

- Starting from any tree of your choice, you must pick **exactly one fruit** from **every** tree (including the start tree) while moving to the right. The picked fruits must fit in one of your baskets.

- Once you reach a tree with fruit that cannot fit in your baskets, you must stop.

Given the integer array fruits, return *the **maximum** number of fruits you can pick*.

Example 1:

Input: fruits = [1,2,1]

Output: 3

Explanation: We can pick from all 3 trees.

Example 2:

Input: fruits = [0,1,2,2]

Output: 3

Explanation: We can pick from trees [1,2,2].

If we had started at the first tree, we would only pick from trees [0,1].

Example 3:

Input: fruits = [1,2,3,2,2]

Output: 4

Explanation: We can pick from trees [2,3,2,2].

If we had started at the first tree, we would only pick from trees [1,2].

Constraints:

- $1 <= fruits.length <= 10^5$
- $0 <= fruits[i] < fruits.length$