

# 904. Fruit Into Baskets

## Description

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 <= 105`
- `0 <= fruits[i] < fruits.length`

