

# Problem 904: Fruit Into Baskets

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 49.90%

**Paid Only:** No

**Tags:** Array, Hash Table, Sliding Window

## Problem 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`

## Code Snippets

### C++:

```
class Solution {
public:
    int totalFruit(vector<int>& fruits) {
        }
    };
}
```

### Java:

```
class Solution {
    public int totalFruit(int[] fruits) {
        }
    }
}
```

### Python3:

```
class Solution:
    def totalFruit(self, fruits: List[int]) -> int:
```