

# Remove the balls

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## Remove the balls



Difficulty: **Medium**

Accuracy: **58.66%**

Submissions: **44K+**

Points: **4**

You are given two arrays, **color** and **radius**, representing a sequence of balls:

- **color[i]** is the color of the i-th ball.
- **radius[i]** is the radius of the i-th ball.

If two **consecutive** balls have the **same color** and **radius**, remove them both. Repeat this process until no more such pairs exist.

Return the **number** of balls **remaining** after all possible removals.

### Examples:

**Input:** color[] = [2, 3, 5], radius[] = [3, 3, 5]

**Output:** 3

**Explanation:** All the 3 balls have different colors and radius.

**Input:** color[] = [2, 2, 5], radius[] = [3, 3, 5]

**Output:** 1

**Explanation:** First ball and second ball have same color 2 and same radius 3. So, after removing only one ball is left. It cannot be removed from the array. Hence, the final array has length 1.

### Constraints:

$1 \leq \text{color.size()} = \text{radius.size()} \leq 10^5$

$1 \leq \text{color}[i] \leq 10^9$

$1 \leq \text{radius}[i] \leq 10^9$

Try more examples

### Expected Complexities

Time Complexity:  $O(n)$

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```
1 #User function Template for python3
2 class Solution:
3     def findLength(self,color, radius):
4         n=len(color)
5         st=[]
6         for i in range(n):
7             if st and color[i]==color[st[-1]] and radius[i]==radius[st[-1]]:
8                 st.pop()
9             else:
10                st.append(i)
11        return len(st)
12
13
14
```

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