Longest Subarray With Equal Number Of 0s 1s And 2s

- 1. You are given an array that contains only 0s, 1s, and 2s.
- 2. You have to find length of the longest subarray with equal number of 0s, 1s, and 2s.

```
Input Format
```

```
A number N
arr1
arr2.. N numbers
Constraints
1 \le N \le 10^5
```

0 <= arr[i] <= 2

Sample Input

7 0 1 0 2 0 1 0

Sample Output

3

```
def LongestSubarrayWithEqualZeroAndOneAndTwo(arr):
    count0 = 0
    count1 = 0
    count2 = 0
    freq = {}
    diff1 = count1 - count0
    diff2 = count2 - count1
    key = str(diff1) + '#' + str(diff2)
    freq[key] = -1
    ans = 0
    for i, ele in enumerate(arr):
        if ele == 0:
            count0 += 1
        elif ele == 1:
            count1 += 1
```