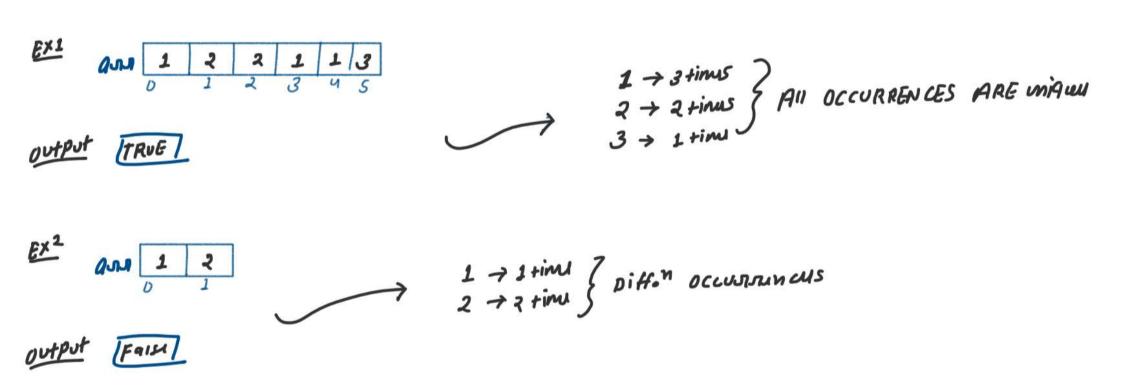
UNIQUE NUMBER OF OCCURRENCES (LEETCODE-1207)

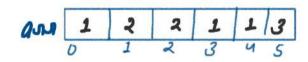
GitHub: github.com/BCAPATHSHALA

Date: 30-12-2023

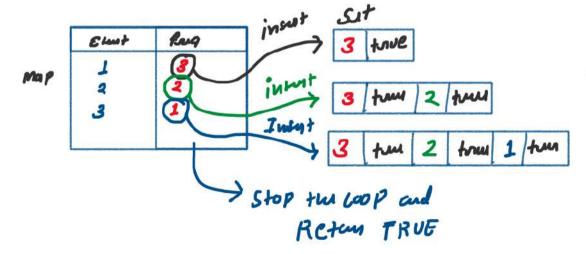




EX1



DRY RUN STEP2



STEP Priquey counting using map

Map 2 2 3 1

STEP2 CHICKING FOR UNIQUE Frequencies

In set Data Structure, emplace() method return a pair to newly inserted unique element and a value of true otherwise false. And Set store the unique values.

Resource: https://cplusplus.com/reference/set/set/

Ex2 and 1 2

DRY RUN STEP2

map 2 insut Janue 1 true insut Jetus Fall because 1 is all sure into set.

STEPL Pruguey counting using map

Elust Rrq

1
2
1
1

STEP2 cucing for unique frequencies

```
class Solution {
public:
    bool uniqueOccurrences(vector<int>& arr) {

        // Step 1: Frequency Counting using map
        unordered_map<int,int>mp;
        for(auto it:arr){
            mp[it]++;
        }

        // Step 2: Checking for Unique Frequencies
        unordered_set<int>st;
        for(auto it:mp){
            auto temp=st.emplace(it.second);
            if(!temp.second){
                return false;
            }
        }
        return true;
    }
}
```

Optimal Approach

Time complexity: O(N+M) = O(N)

Space complexity: O(N)

Where N is number of elements in input array, and M is the number of unique frequencies in the map.

Note 1: In the worst case, where all elements are unique, the space complexity can be O(n) for unordered map **Note 2:** In the worst case, where all frequencies are unique, the space complexity can be O(n) for unordered set