Problems

Courses Problem Editorial Submissions Comments

Job Fair Live

Make Palindrome

185

Easy Accuracy: **55.43%** Submissions: **29K+** Points: **2**

Contests

Upskill with this problem, Get placed in Job Fair 2023! Explore Opportunities Now!

POTD

You are given an array of strings **arr** of size **n**. You have to find out if it is possible to make a palindromic string by concatenating all the strings in any order. Provided that all the strings given in the array are of **equal length**.

Example 1:

Input:
n = 4
arr = {"djfh", "gadt", "hfjd", "tdag"}
Output:
YES
Explanation:
You can make the string "djfhgadttdaghfjd", by concatenating the given strings which is a palindrome.

Example 2:

Input:
n = 3
arr = {"jhjdf", "sftas", "fgsdf"}
Output:
NO
Explanation:
You can't make a palindromic string with this strings.

Your Task:
You don't need to read input or print anything. Your task is to complete the function **makePalindrome()** which takes an integer **n** and an array of strings **arr** respectively and returns **true** or **false**.

Menu

Expected Time Complexity: O(n * len(arr[i]))

Expected Space Complexity: O(n * len(arr[i]))

Constraints:

$1 <= n <= 10^4$

$0 <= |arr[i]| <= 10^4$

The sum of $n*|arr[i]|$ over all test cases won't exceed 10^6

View Bookmarked Problems

Topic Tags

C++ (g++ 5.4) Start Timer

```cpp
// } Driver Code Ends
//User function Template for C++

class Solution{
public:
    bool makePalindrome(int n,vector<string> &arr){
        // Code here

        unordered_map<string,int> mp;
    for(auto it:arr)
    {
        string rev=it;
        reverse(rev.begin(),rev.end());
        if(mp.find(rev)!=mp.end())
        {
            mp[rev]--;
            if(mp[rev]==0) mp.erase(rev);
        }
        else
        {
            mp[it]++;
        }
    }
    if(mp.size()==0) return true;
    if(mp.size()==1)
    {
        string curr=mp.begin()->first;
        string rev=curr;
        reverse(rev.begin(),rev.end());
        return rev==curr;
    }
    return false;
    }
```

Custom Input Compile & Run Sub

Report An Issue

Menu

Menu