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Problems	36	9			
Cours <b>∉s Problem</b>	Editorial	O Submissions			
Job Fair Live alindrome [			<b>7</b> 185	Q	<u>پائی</u>
Easy Accuracy: 55.43%	Submissions: 29K+	Points: 2			
Contests 🗸					
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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

## Example 1:

the array are of equal length.

```
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**.



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**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  $10^6$ 

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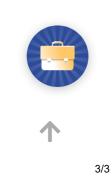
## **Topic Tags**

```
Start Timer (>)
 C++ (g++ 5.4) ▼
   ☐// } Driver Code Ends
    //User function Template for C++
9
10
    class Solution{
11
    public:
12
13
        bool makePalindrome(int n,vector<string> &arr){
            // Code here
14
15
            unordered_map<string,int> mp;
16
17
        for(auto it:arr)
18
            string rev=it;
19
            reverse(rev.begin(),rev.end());
20
21
            if(mp.find(rev)!=mp.end())
22
                mp[rev]--;
23
                if(mp[rev]==0) mp.erase(rev);
24
            }
25
            else
26
27
            {
                mp[it]++;
28
             }
29
30
31
        if(mp.size()==0) return true;
        if(mp.size()==1)
32
33
            string curr=mp.begin()->first;
34
35
            string rev=curr;
            reverse(rev.begin(),rev.end());
36
37
            return rev==curr;
38
39
        return false;
40
                                                   Custom Input
                                                                 Compile & Run
```

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