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2131. Longest Palindrome by Concatenating Two Letter Words

Medium👍 166🔒 5❤️ Add to List🔗 Share

You are given an array of strings `words` . Each element of `words` consists of **two** lowercase English letters.

Create the **longest possible palindrome** by selecting some elements from `words` and concatenating them in **any order**. Each element can be selected **at most once**.

Return *the **length** of the longest palindrome that you can create*. If it is impossible to create any palindrome, return `0` .

A **palindrome** is a string that reads the same forward and backward.

Example 1:

Input: words = ["lc","cl","gg"]  
Output: 6  
Explanation: One longest palindrome is "lc" + "gg" + "cl" = "lggcl", of length 6.  
Note that "clggcl" is another longest palindrome that can be created.

Example 2:

Input: words = ["ab","ty","yt","lc","cl","ab"]  
Output: 8  
Explanation: One longest palindrome is "ty" + "lc" + "cl" + "yt" = "tylcclyt", of length 8.  
Note that "lcyttycl" is another longest palindrome that can be created.

Example 3:

Input: words = ["cc","ll","xx"]  
Output: 2  
Explanation: One longest palindrome is "cc", of length 2.  
Note that "ll" is another longest palindrome that can be created, and so is "xx".

Constraints:

- 1 <= words.length <= 10<sup>5</sup>
- words[i].length == 2
- words[i] consists of lowercase English letters.

Accepted 6,314Submissions 19,411

Seen this question in a real interview before?

Yes

No

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1class Solution {  
2public int longestPalindrome(String[] words) {  
3  
4}  
5}

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Problems

Pick One

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