

5688. Maximize Palindrome Length From Subsequences

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You are given two strings, word1 and word2 . You want to construct a string in the following manner:

- Choose some **non-empty** subsequence subsequence1 from word1 .
- Choose some **non-empty** subsequence subsequence2 from word2 .
- Concatenate the subsequences: subsequence1 + subsequence2 , to make the string.

Return the **length** of the longest **palindrome** that can be constructed in the described manner. If no palindromes can be constructed, return 0 .

A **subsequence** of a string s is a string that can be made by deleting some (possibly none) characters from s without changing the order of the remaining characters.

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

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Hard

Example 1:

Input: word1 = "cacb", word2 = "cbba"
Output: 5
Explanation: Choose "ab" from word1 and "cba" from word2 to make "abcba", which is a palindrome.

Example 2:

Input: word1 = "ab", word2 = "ab"
Output: 3
Explanation: Choose "ab" from word1 and "a" from word2 to make "aba", which is a palindrome.

Example 3:

Input: word1 = "aa", word2 = "bb"
Output: 0
Explanation: You cannot construct a palindrome from the described method, so return 0.

Constraints:

- 1 <= word1.length, word2.length <= 1000
- word1 and word2 consist of lowercase English letters.

JavaScript

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```
1 /**
2  * @param {string} word1
3  * @param {string} word2
4  * @return {number}
5  */
6 var longestPalindrome = function(word1, word2) {
7
8 };
```