User Accepted:

Total Accepted:

Total Submissions:

User Tried:

Difficulty:





0

0

0

0

Medium

5883. Check if Word Can Be Placed In Crossword

My Submissions (/contest/weekly-contest-260/problems/check-if-word-can-be-placed-in-crossword/submissions/)

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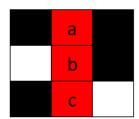
You are given an m x n matrix board, representing the current state of a crossword puzzle. The crossword contains lowercase English letters (from solved words), ' ' to represent any empty cells, and '#' to represent any blocked cells.

A word can be placed horizontally (left to right or right to left) or vertically (top to bottom or bottom to top) in the board if:

- It does not occupy a cell containing the character '#'.
- The cell each letter is placed in must either be ' ' (empty) or match the letter already on the board.
- There must not be any empty cells ' ' or other lowercase letters directly left or right of the word if the word was placed horizontally.
- There must not be any empty cells ' ' or other lowercase letters directly above or below the word if the word was placed vertically.

Given a string word, return true if word can be placed in board, or false otherwise.

Example 1:

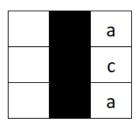


Input: board = [["#", " ", "#"], [" ", " ", "#"], ["#", "c", " "]], word = "abc"

Output: true

Explanation: The word "abc" can be placed as shown above (top to bottom).

Example 2:

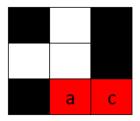


Input: board = [[" ", "#", "a"], [" ", "#", "c"], [" ", "#", "a"]], word = "ac"

Output: false

Explanation: It is impossible to place the word because there will always be a space/letter above or below it.

Example 3:



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Input: board = [["#", " ", "#"], [" ", " ", "#"], ["#", " ", "c"]], word = "ca"
Output: true
Explanation: The word "ca" can be placed as shown above (right to left).
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Constraints:

- m == board.length
- n == board[i].length
- $1 \le m * n \le 2 * 10^5$
- board[i][j] will be ' ', '#', or a lowercase English letter.
- 1 <= word.length <= max(m, n)
- word will contain only lowercase English letters.

