Description | Solution | Discuss (999+) | Submissions | Java | Autocomplete

## 79. Word Search

Medium · 👍 4416 · 👎 203 · ♡ Add to List · Share

Given a 2D board and a word, find if the word exists in the grid.

The word can be constructed from letters of sequentially adjacent cell, where "adjacent" cells are those horizontally or vertically neighboring. The same letter cell may not be used more than once.

**Example:**

```
board =
[
  ['A','B','C','E'],
  ['S','F','C','S'],
  ['A','D','E','E']
]

Given word = "ABCCED", return true.
Given word = "SEE", return true.
Given word = "ABCB", return false.
```

**Constraints:**

- `board` and `word` consists only of lowercase and uppercase English letters.
- `1 <= board.length <= 200`
- `1 <= board[i].length <= 200`
- `1 <= word.length <= 10^3`

Accepted **535,658** | Submissions **1,489,706**

```java
class Solution {
    private static int[] dx = { -1, 0, 1, 0 };
    private static int[] dy = { 0, -1, 0, 1 };
    private static boolean[][] isvisited;
    public boolean exist(char[][] matrix, String word) {
      isvisited = new boolean[matrix.length][matrix[0].length];

        for (int i = 0; i < matrix.length; i++) {
            for (int j = 0; j < matrix[i].length; j++) {

                char ch = matrix[i][j];

                if (word.charAt(0) == ch && searchWord(matrix, word, i, j, 0)) {
                    return true;
                }
            }
        }

        return false;
    }

    private static boolean searchWord(char[][] matrix, String word, int i, int j, int index) {

        if (index == word.length())
            return true;
        if (i < 0 || j < 0  || i >= matrix.length || j >= matrix[0].length)
            return false;
        if (matrix[i][j] != word.charAt(index) || isvisited[i][j] == true)
            return false;

        isvisited[i][j] = true;

        for (int nighbour = 0; nighbour < dx.length; nighbour++) {
```

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