Word Search

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| Question | Solution |

Total Accepted: **52010**   Total Submissions: **247689**   Difficulty: **Medium**

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.

For example,

Given **board** =

```
[
  ["ABCE"],
  ["SFCS"],
  ["ADEE"]
]
```

word = `"ABCCED"` , -> returns `true` ,

word = `"SEE"` , -> returns `true` ,

word = `"ABCB"` , -> returns `false` .

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Python ▼

```
1   class Solution(object):
2       def exist(self, board, word):
3           """
4           :type board: List[List[str]]
5           :type word: str
6           :rtype: bool
7           """
8           row = len(board)
```

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```
 9            col = 0 if row==0 else len(board[0])
10            for i in range(row):
11                for j in range(col):
12                    if board[i][j]==word[0]:
13                        board[i][j]=0
14                        if self.wordSearch(board,word[1:],i,j):return True
15                        board[i][j]=word[0]
16            return False
17        def wordSearch(self,board,word,x,y):
18            row = len(board)
19            col = 0 if row==0 else len(board[0])
20            if len(word)==0:return True
21            step=[[-1,0],[0,1],[1,0],[0,-1]]
22            for i in range(4):
23                sx=x+step[i][0]
24                sy=y+step[i][1]
25                if sx<0 or sx>=row:continue
26                if sy<0 or sy>=col:continue
27                if board[sx][sy]==word[0]:
28                    board[sx][sy]=0
29                    if self.wordSearch(board,word[1:],sx,sy):return True
30                    board[sx][sy]=word[0]
```

Custom Testcase ☐

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Submission Result: Accepted (/submissions/detail/42696757/)

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Next challenges: (H) Word Search II (/problems/word-search-ii/)

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