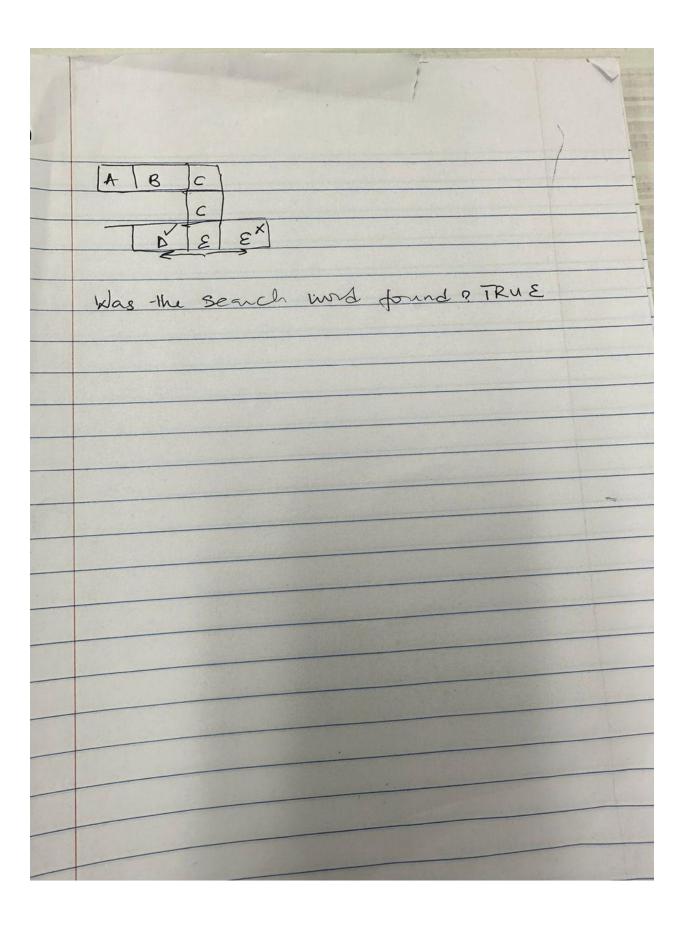
STEP 1

| | | 72 | - AND - | | | |
|---|--------------|-----|---|-------|--|--|
| | | | | -424 | 1 2 2 | |
| | 1 | 2 | 3 | 4 | X - sendence - x | |
| | A | B | C | 3 | Seach www = ABCCED | |
| 2 | S | F | C | S | 9.5 | |
| 3 | A | D | ٤ | 3 | | |
| | 1 | | | 10 | | |
| Stepii | | | | | | |
| | Sto | int | vertic | جدا ٦ | and horizontally to search as | |
| | A | B | 161 | EX | | |
| | × | | | | | |
| Cells 1:1, 1:2, 1:3 match search | | | | | | |
| | VII | | | mor | d. cell 1:4 does not. | |
| | | | | | 87 | |
| Step | 2: | | | | 6 | |
| Bontinue Search from the last Rell with a | | | | | | |
| positivo match | | | | | | |
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| ABC Cells 2:3, 3:3 moon some | | | | | | |
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| Step 3: Continue Scarch from the 1 < st cell with a positive match | | | | | | |
| | Continue ser | | | | | |
| match | | | | | | |
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STEP 2

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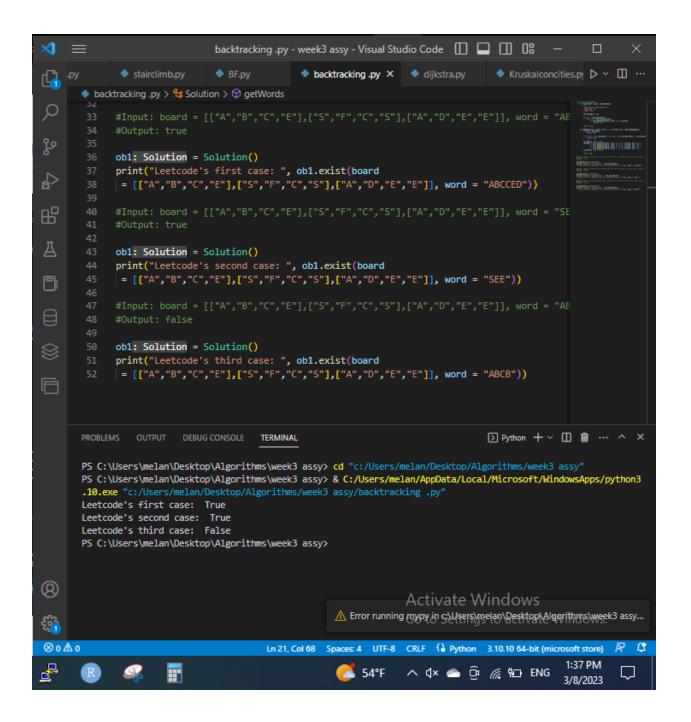
ф.ру
             stairclimb.py
                             BF.py
                                           backtracking .py • dijkstra.py

• backtracking .py > 

   Solution > 

   getWords

            class Solution(object):
Q
                def exist(self, board, word) -> bool:
                                                                                            બૂ
                    :type board: List[List[str]]
                    visited: dict = {}
船
                    for i in range(len(board)):
                       for j in range(len(board[0])):
Д
                           if self.getWords(board, word, i, j, visited):
                               return True
P
                   return False
日
                def getWords(self, board, word, i, j, visited, pos = 0) -> Any | bool:
                    if pos == len(word):
恖
                       return True
                   if i < 0 or i == len(board) or j < 0 or j == len(board[0]) or visited.get((
同
                    visited[(i, j)] = True
                    res: Any = self.getWords(board, word, i, j + 1, visited, pos + 1) \
                           or self.getWords(board, word, i, j - 1, visited, pos + 1) \
                           or self.getWords(board, word, i + 1, j, visited, pos + 1) \
                           or self.getWords(board, word, i - 1, j, visited, pos + 1)
                    visited[(i, j)] = False
                   return res
            ob1: Solution = Solution()
(A)
            print("Leetcode's first case: ", ob1.exist(board
                                                             Activate Windows
Go to Settings to activate Windows.
            = [["A","B","C","E"],["S","F","C","S"],["A","D","E",
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```



CODE

```
class Solution(object):
  def exist(self, board, word):
     :type board: List[List[str]]
     :type word: str
     :rtype: bool
     visited = {}
     for i in range(len(board)):
       for j in range(len(board[0])):
          if self.getWords(board, word, i, j, visited):
            return True
     return False
  def getWords(self, board, word, i, j, visited, pos = 0):
     if pos == len(word):
       return True
     if i < 0 or i == len(board) or j < 0 or j == len(board[0]) or visited.get((i, j)) or word[pos]
!= board[i][j]:
       return False
     visited[(i, j)] = True
     res = self.getWords(board, word, i, j + 1, visited, pos + 1) \
          or self.getWords(board, word, i, j - 1, visited, pos + 1) \
          or self.getWords(board, word, i + 1, j, visited, pos + 1) \
          or self.getWords(board, word, i - 1, j, visited, pos + 1)
     visited[(i, j)] = False
     return res
#Input: board = [["A","B","C","E"],["S","F","C","S"],["A","D","E","E"]], word = "ABCCED"
#Output: true
ob1 = Solution()
print("Leetcode's first case: ", ob1.exist(board
= [["A","B","C","E"],["S","F","C","S"],["A","D","E","E"]], word = "ABCCED"))
#Input: board = [["A","B","C","E"],["S","F","C","S"],["A","D","E","E"]], word = "SEE"
#Output: true
```