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class Solution {
    public boolean exist(char[][] board, String word) {
        for (int i = 0; i < board.length; i++) {
            for (int j = 0; j < board[0].length; j++) {
                if (dfs(board, i, j, word, 0))
                    return true;
            }
        }
        return false;
    }

    public boolean dfs(char[][] board, int r, int c, String word, int idx) {
        if (word.length() == idx)
            return true;
        if (r < 0 || r >= board.length || c < 0 || c >= board[0].length)
            return false;
        char ch = board[r][c];
        if (ch != word.charAt(idx))
            return false;
        board[r][c] = ' ';
        boolean b = dfs(board, r+1, c, word, idx+1) ||
                    dfs(board, r-1, c, word, idx+1) ||
                    dfs(board, r, c+1, word, idx+1) ||
                    dfs(board, r, c-1, word, idx+1);
        board[r][c] = ch;
        return b;
    }
}

```