## **Word Search**

Try to solve the Word Search problem.

We'll cover the following Statement Examples Understand the problem • Figure it out! • Try it yourself

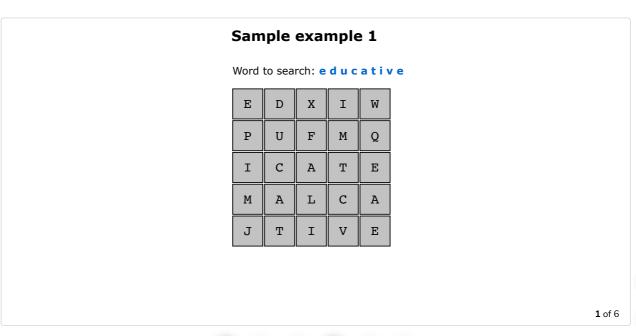
### **Statement**

Given an m imes n 2D grid of characters and  ${\sf word}$  as a string, we need to determine if the word can be constructed from letters of **sequentially adjacent** cells. The cells are considered sequentially adjacent when they are neighbors to each other either horizontally or vertically. The function should return TRUE if the word can be constructed and FALSE otherwise.

#### **Constraints:**

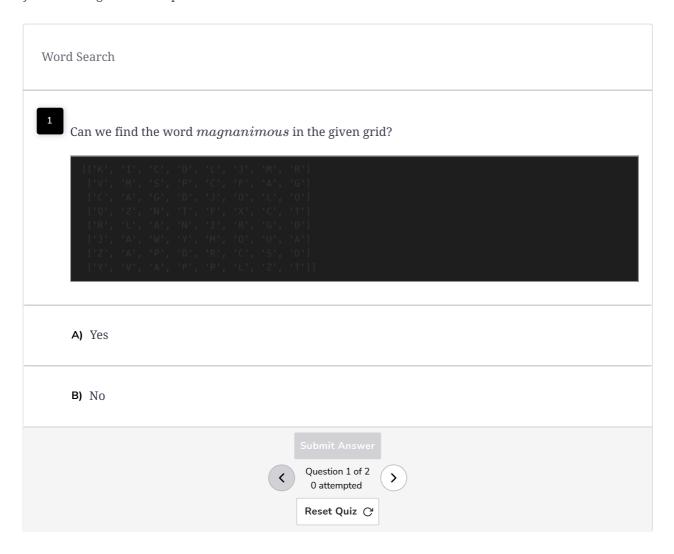
- m = board.length
- n = board[i].length, where  $0 \le i < m$
- $1 \leq m, n \leq 6$
- $1 \leq \mathtt{word.length} \leq 15$
- board and word consist of only lowercase or uppercase English letters.
- The search is not case-sensitive.

# **Examples**



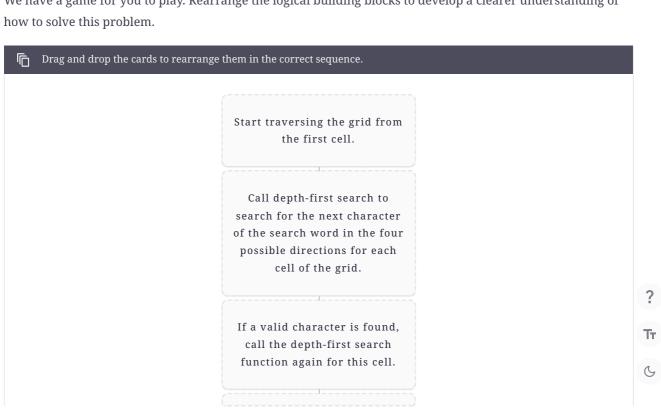
### Understand the problem

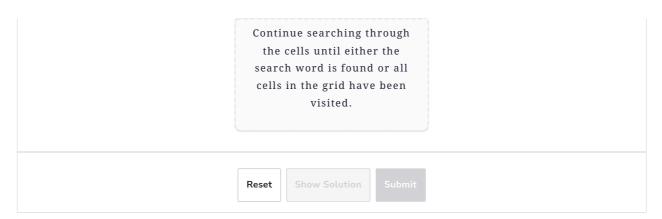
Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:



# Figure it out!

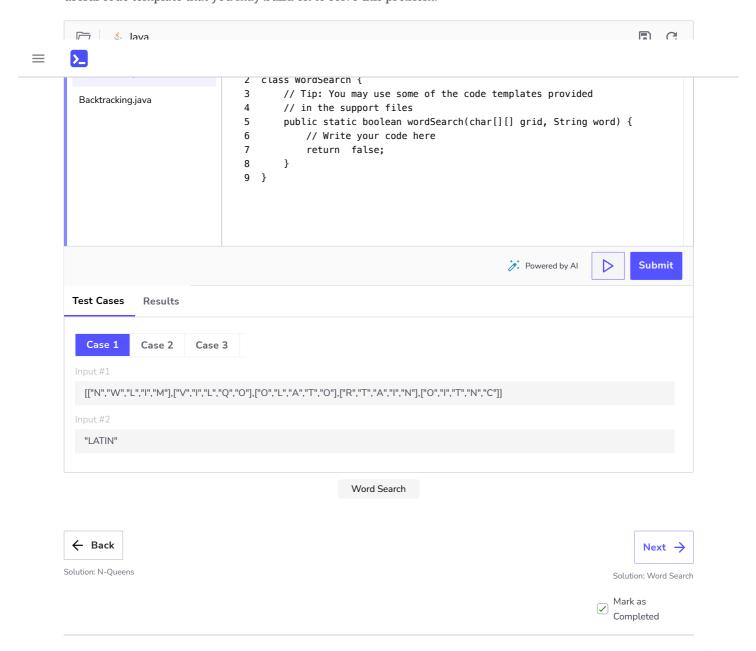
We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of





## Try it yourself

Implement your solution in WordSearch. java in the following coding playground. We have also provided a useful code template that you may build on to solve this problem.



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