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Rotting Oranges

Try to solve the Rotting Oranges problem.

We'll cover the following
Statement
Examples
Understand the problem
Try it yourself

Statement

You're given an $(m \times n)$ matrix where each cell of the matrix can have one of three values:

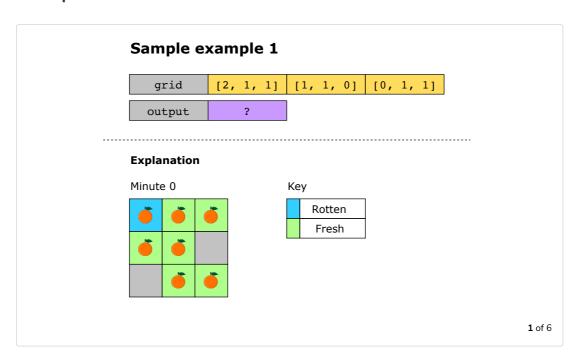
- 0 represents an empty cell
- 1 represents a fresh orange
- 2 represents a rotten orange

Every minute, an orange becomes rotten if it's adjacent to a rotten orange in any direction. Return the minimum number of minutes that must elapse until no cell has a fresh orange. If this is impossible, return -1.

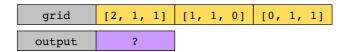
Constraints:

- m == grid.length
- n == grid[i].length
- $1 \le m, n \le 10$
- grid[i][j] is 0, 1, or 2.

Examples



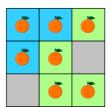




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Explanation

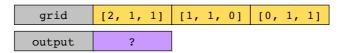
Minute 1





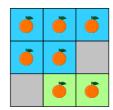
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Sample example 1



Explanation

Minute 2

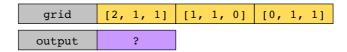






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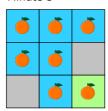
Sample example 1



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Explanation

Minute 3

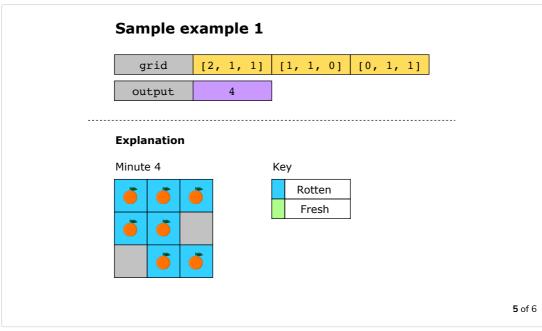


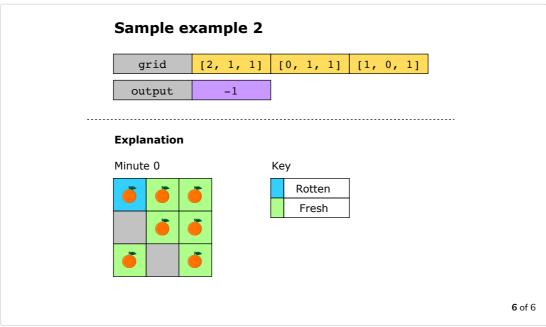
Key



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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:

- []

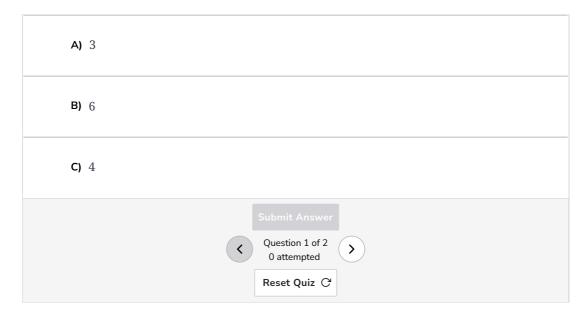
Rotting Oranges

What is the output if the following (3×3) grid is given as input? $\begin{bmatrix} 2 & 1 & 1 \\ 0 & 0 & 1 \\ 1 & 1 & 1 \end{bmatrix}$

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Try it yourself

Implement your solution in the following coding playground:



```
1 import java.util.*;
  2 public class Solution{
         public static int minMinutesToRot(int[][] grid) {
  5
             // Your code will replace this placeholder return statement
  7
              return 0;
  8
         }
  9 }
                                                                                        Submit
                                                                 Powered by Al
Test Cases
            Results
  Case 1
            Case 2
                      Case 3
Input #1
 [[2,1,1],[1,1,0],[0,1,1]]
                                          Rotting Oranges
                                          - Hide Hint
You might want to go over the Tree Breadth-first Search pattern again.
```

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Where to Go from Her...

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Asteroid Collision

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