

LeetCode

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October LeetCode Challenge 2021

Premium

Description

Solution

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Java

Autocomplete

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994. Rotting Oranges

Medium

4536

235

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You are given an $m \times n$ grid where each cell can have one of three values:

- 0 representing an empty cell,
- 1 representing a fresh orange, or
- 2 representing a rotten orange.

Every minute, any fresh orange that is **4-directionally adjacent** to a rotten orange becomes rotten.

Return the minimum number of minutes that must elapse until no cell has a fresh orange. If this is impossible, return -1.

Example 1:

Minute 0

Minute 1

Minute 2

Minute 3

Minute 4

Input: grid = [[2,1,1],[1,1,0],[0,1,1]]

Output: 4

Example 2:

Input: grid = [[2,1,1],[0,1,1],[1,0,1]]

Output: -1

Explanation: The orange in the bottom left corner (row 2, column 0) is never rotten, because rotting only happens 4-directionally.

Example 3:

Input: grid = [[0,2]]

Output: 0

Explanation: Since there are already no fresh oranges at minute 0, the answer is just 0.

Constraints:

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

Accepted 263,920

Submissions 524,116

Seen this question in a real interview before?

Yes

No

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class Solution {

2

public int orangesRotting(int[][] grid) {

3

4

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5

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Problems

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Console

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Run Code ^

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https://leetcode.com/problems/rotting-oranges/

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