

2556. Disconnect Path in a Binary Matrix by at Most One Flip

My Submissions (/contest/biweekly-contest-97/problems/disconnect-path-in-a-binary-matrix-by-at-most-one-flip/submissions/)

Back to Contest (/contest/biweekly-contest-97/)

You are given a **0-indexed** m x n binary matrix grid . You can move from a cell (row, col) to any of the cells (row + 1, col) or (row, col + 1) that has the value 1. The matrix is **disconnected** if there is no path from (0, 0) to (m - 1)

You can flip the value of at most one (possibly none) cell. You cannot flip the cells (0, 0) and (m - 1, n - 1).

Return true if it is possible to make the matrix disconnect or false otherwise.

Note that flipping a cell changes its value from 0 to 1 or from 1 to 0.

User Accepted:	1309
User Tried:	4221
Total Accepted:	1440
Total Submissions:	11440
Difficulty:	Medium

Example 1:

1	1	1	1	1	1
1	0	0	0	0	0
1	1	1	1	1	1

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

Explanation: We can change the cell shown in the diagram above. There is no path from (0, 0) to (2, 2) in the resulting grid.

Example 2:

1	1	1
1	0	1
1	1	1

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

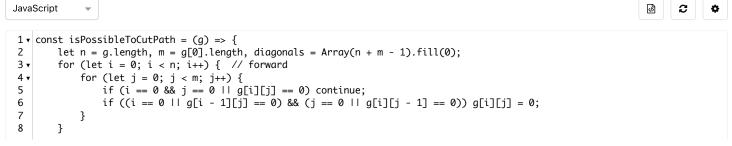
Output: false

Explanation: It is not possible to change at most one cell such that there is not path from (0, 0) to (2, 2).

Constraints:

- m == grid.length
- n == grid[i].length
- 1 <= m, n <= 1000
- $1 \le m * n \le 10^5$
- grid[i][j] is either 0 or 1.
- grid[0][0] == grid[m 1][n 1] == 1

Discuss (https://leetcode.com/problems/disconnect-path-in-a-binary-matrix-by-at-most-one-flip/discuss)



```
9 ▼
         for (let i = n - 1; i >= 0; i--) { // backward
             for (let j = m - 1; j >= 0; j--) {
    if (i == n - 1 \& j == m - 1 | | g[i][j] == 0) continue;
10 •
11
                  if ((i == n - 1 || g[i + 1][j] == 0) \& (j == m - 1 || g[i][j + 1] == 0)) g[i][j] = 0;
12
13
             }
14
         // diagnonal count
15
         for (let i = 0; i < n; i++) {
16 ▼
             for (let j = 0; j < m; j++) diagonals[i + j] += g[i][j];
17
18
19 ▼
         for (let i = 1; i < n + m - 2; i++) {
              if (diagonals[i] <= 1) return true;</pre>
20
21
22
         return false;
23
    };
```

☐ Custom Testcase

Use Example Testcases

○ Run) (

♠ Submit

Submission Result: Accepted (/submissions/detail/894503785/) ?

More Details > (/submissions/detail/894503785/)

Share your acceptance!

√5

Run Code: Finished

Copyright © 2023 LeetCode

Help Center (/support) | Jobs (/jobs) | Bug Bounty (/bugbounty) | Online Interview (/interview/) | Students (/student) | Terms (/terms) | Privacy Policy (/privacy)

United States (/region)