

LeetCode

Explore

Problems

Interview

Contest

Discuss

Store

LeetCode Challenge + GIVEAWAY!

Premium

Description

Solution

Discuss (791)

Submissions

Java

Autocomplete

1091. Shortest Path in Binary Matrix

Medium

1793

99

Add to List

Share

Given an $n \times n$ binary matrix `grid`, return *the length of the shortest **clear** path in the matrix*. If there is no **clear** path, return `-1`.


A **clear path** in a binary matrix is a path from the **top-left** cell (i.e., $(0, 0)$) to the **bottom-right** cell (i.e., $(n - 1, n - 1)$) such that:

- All the visited cells of the path are `0`.
- All the adjacent cells of the path are **8-directionally** connected (i.e., they are different and they share an edge or a corner).

The **length of a clear path** is the number of visited cells of this path.

Example 1:

0	1
1	0




0	1
1	0

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

Example 2:

0	0	0
1	1	0
1	1	0



0	0	0
1	1	0
1	1	0

Input: `grid = [[0,0,0],[1,1,0],[1,1,0]]`
Output: `4`

Example 3:

Input: `grid = [[1,0,0],[1,1,0],[1,1,0]]`
Output: `-1`

Constraints:

- $n == \text{grid.length}$
- $n == \text{grid}[i].\text{length}$
- $1 \leq n \leq 100$
- `grid[i][j]` is `0` or `1`

Accepted 123,238 Submissions 297,708

Seen this question in a real interview before?

Yes

No

Companies

Related Topics

Show Hint 1

1

2

3

4

5

```
class Solution {  
    public int shortestPathBinaryMatrix(int[][] grid) {  
  
    }  
}
```

1

2

3

4

5

Problems

Pick One

< Prev

1091/2076

Next >

Console

Contribute

Run Code

Submit

https://leetcode.com/problems/shortest-path-in-binary-matrix/

1/1