# 296. Best Meeting Point Premium

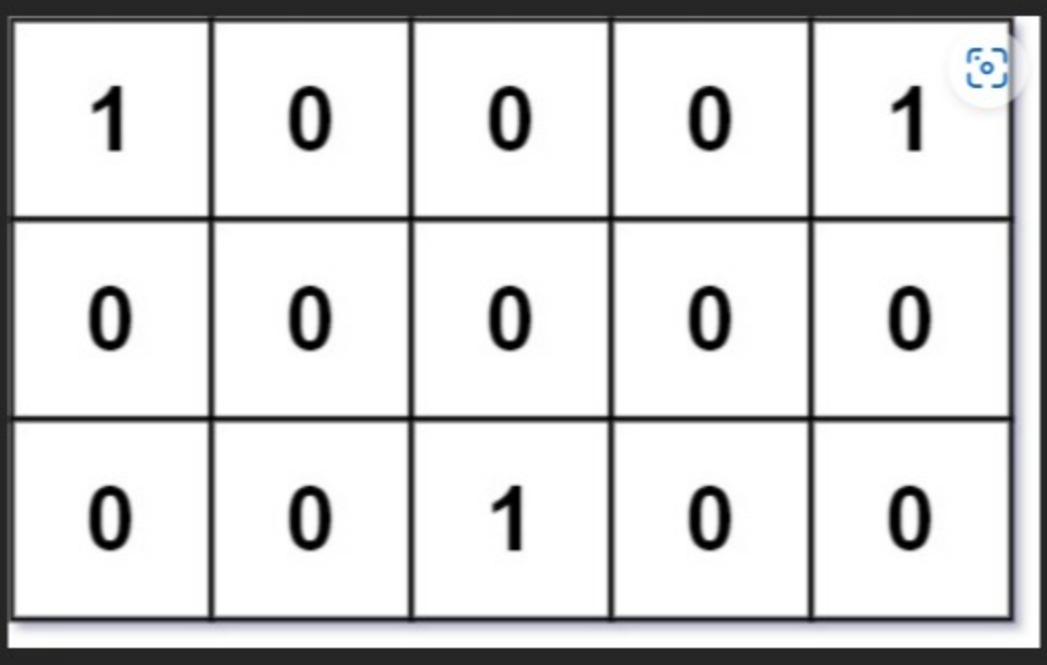
Hard Topics Companies Hint

Given an `m x n` binary grid `grid` where each `1` marks the home of one friend, return *the minimal* ***total travel distance***.

The **total travel distance** is the sum of the distances between the houses of the friends and the meeting point.

The distance is calculated using Manhattan Distance, where `distance(p1, p2) = |p2.x - p1.x| + |p2.y - p1.y|`.

**Example 1:**




```
Input: grid = [[1,0,0,0,1],[0,0,0,0,0],[0,0,1,0,0]]
Output: 6
Explanation: Given three friends living at (0,0), (0,4), and (2,2).
The point (0,2) is an ideal meeting point, as the total travel distance of 2 + 2 + 2 = 6 is minimal.
So return 6.
```

**Example 2:**

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

**Constraints:**

- `m == grid.length`
- `n == grid[i].length`
- `1 <= m, n <= 200`
- `grid[i][j]` is either `0` or `1`.
- There will be **at least two** friends in the `grid`.

Seen this question in a real interview before? 1/5

Yes No

Accepted 87K | Submissions 142.7K | Acceptance Rate 61.0%

Topics

Array Math Sorting Matrix

Companies

0 - 3 months

DoorDash 2

0 - 6 months

X 2

6 months ago

Meta 7 Amazon 2

Hint 1

Try to solve it in one dimension first. How can this solution apply to the two dimension case?

Similar Questions

Shortest Distance from All Buildings Hard

Minimum Moves to Equal Array Elements II Medium

Discussion (15)