

1368. Minimum Cost to Make at Least One Valid Path in a Grid

Hard Topics Companies Hint

Given an $m \times n$ grid. Each cell of the grid has a sign pointing to the next cell you should visit if you are currently in this cell. The sign of `grid[i][j]` can be:

- 1 which means go to the cell to the right. (i.e go from `grid[i][j]` to `grid[i][j + 1]`)
- 2 which means go to the cell to the left. (i.e go from `grid[i][j]` to `grid[i][j - 1]`)
- 3 which means go to the lower cell. (i.e go from `grid[i][j]` to `grid[i + 1][j]`)
- 4 which means go to the upper cell. (i.e go from `grid[i][j]` to `grid[i - 1][j]`)

Notice that there could be some signs on the cells of the grid that point outside the grid.

You will initially start at the upper left cell `(0, 0)`. A valid path in the grid is a path that starts from the upper left cell `(0, 0)` and ends at the bottom-right cell `(m - 1, n - 1)` following the signs on the grid. The valid path does not have to be the shortest.

You can modify the sign on a cell with `cost = 1`. You can modify the sign on a cell **one time only**.

Return the minimum cost to make the grid have at least one valid path.

第一眼不会. 直接 YouTube.

感觉是 backtracking

法1: Dijkstra's Algo

法2: BFS

看了感觉也没必要学.

这种为了做题而出题.

都是这种 ML 内容.

Next Code. is