

Premium

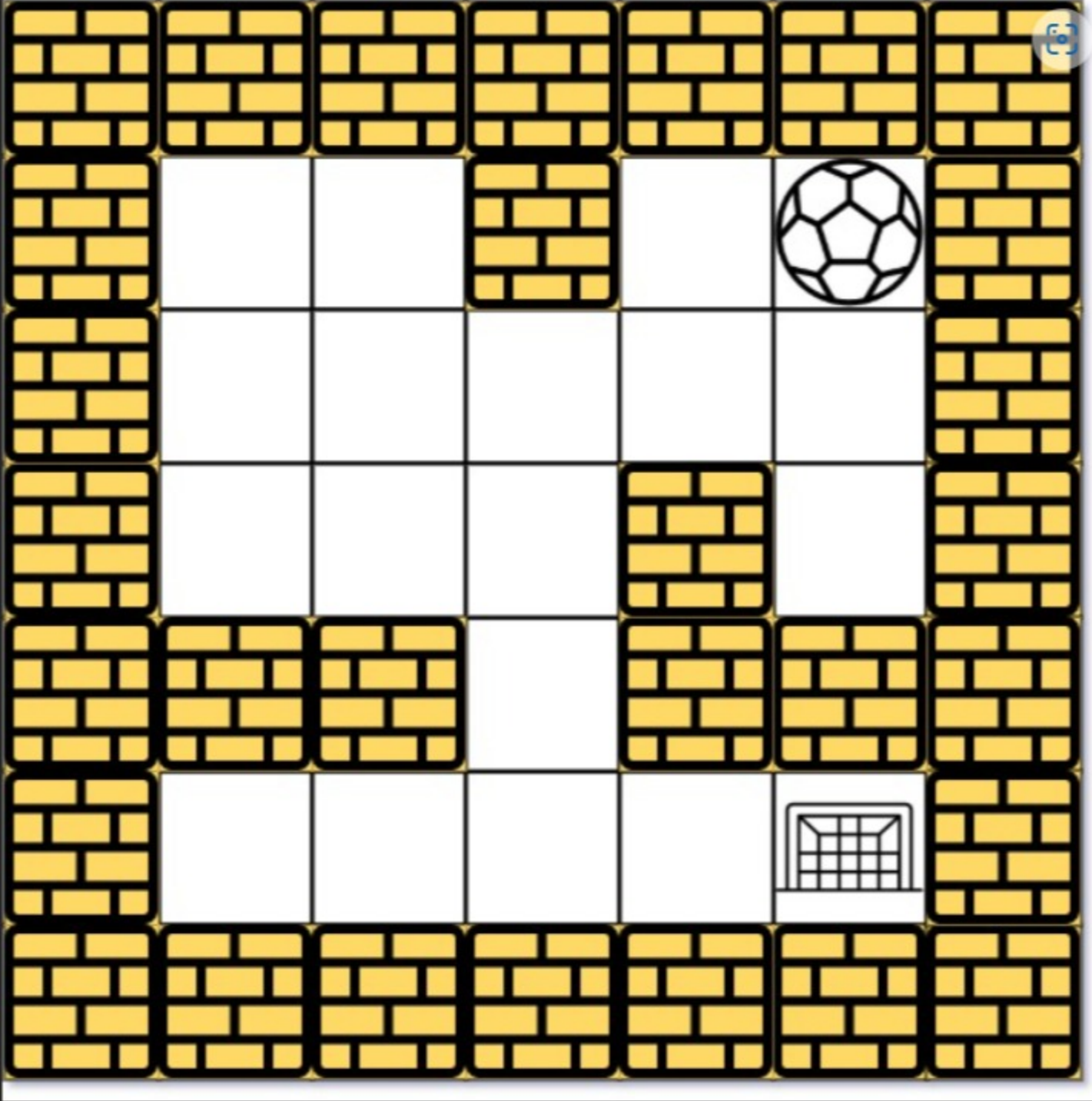
Topics

There is a ball in a `maze` with empty spaces (represented as `0`) and walls (represented as `1`). The ball can go through the empty spaces by rolling **up**, **down**, **left** or **right**, but it won't stop rolling until hitting a wall. When the ball stops, it could choose the next direction.

Given the `m x n` maze, the ball's start position and the destination, where `start = [start_row, start_col]` and `destination = [destination_row, destination_col]`, return `true` if the ball can stop at the destination, otherwise return `false`.

You may assume that **the borders of the maze are all walls** (see examples)

Example 1:

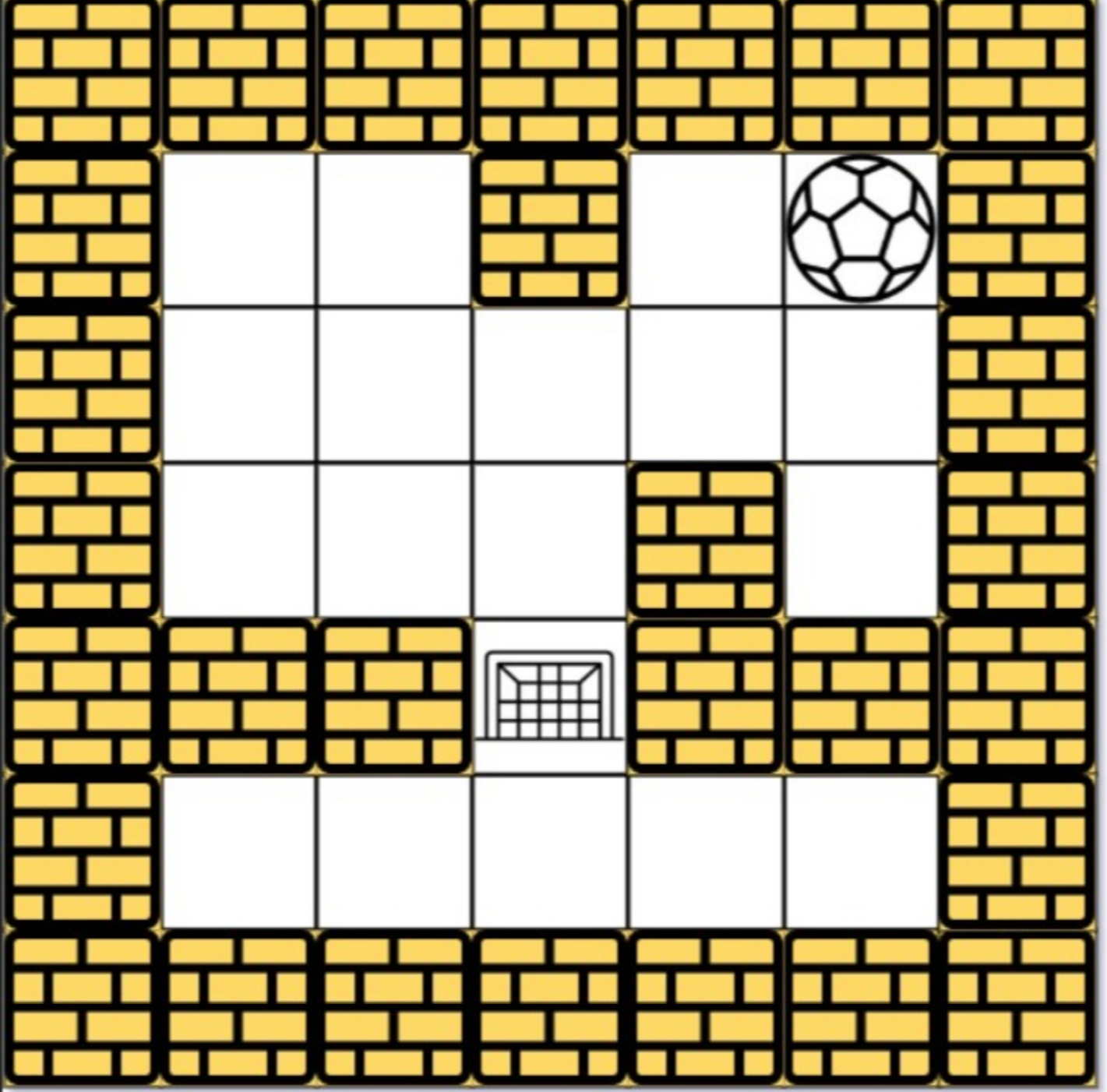


```
Input: maze = [[0,0,1,0,0],[0,0,0,0,0],[0,0,0,1,0],[1,1,0,1,1],
[0,0,0,0,0]], start = [0,4], destination = [4,4]
```

Output: true

Explanation: One possible way is : left → down → left → down → right → down → right.

Example 2:



```
Input: maze = [[0,0,1,0,0],[0,0,0,0,0],[0,0,0,1,0],[1,1,0,1,1],
[0,0,0,0,0]], start = [0,4], destination = [3,2]
```

Output: false

Explanation: There is no way for the ball to stop at the destination. Notice that you can pass through the destination but you cannot stop there.

Example 3:

```
Input: maze = [[0,0,0,0,0],[1,1,0,0,1],[0,0,0,0,0],[0,1,0,0,1],  
[0,1,0,0,0]], start = [4,3], destination = [0,1]
```

Output: false

Constraints:

- `m == maze.length`
- `n == maze[i].length`
- `1 <= m, n <= 100`
- `maze[i][j]` is `0` or `1`.
- `start.length == 2`
- `destination.length == 2`
- `0 <= start_row, destination_row <= m`
- `0 <= start_col, destination_col <= n`
- Both the ball and the destination exist in an empty space, and they will not be in the same position initially.
- The maze contains **at least 2 empty spaces**.

101.5K	200.7K	50.6%
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Topics

0

3 months

- 6 months

months

Conclusion

Discussion (28)