

Code(chatGPT)

```
def hasPath(maze, start, destination):
    rows, cols = len(maze), len(maze[0])
    visited = [[False for _ in range(cols)] for _ in range(rows)]

    def dfs(x, y):
        if [x, y] == destination:
            return True

        if visited[x][y]:
            return False

        visited[x][y] = True

        # Move left
        left_x, left_y = x, y
        while left_y > 0 and maze[left_x][left_y - 1] == 0:
            left_y -= 1
        if dfs(left_x, left_y):
            return True

        # Move right
        right_x, right_y = x, y
        while right_y < cols - 1 and maze[right_x][right_y + 1] == 0:
            right_y += 1
        if dfs(right_x, right_y):
            return True

        # Move up
        up_x, up_y = x, y
        while up_x > 0 and maze[up_x - 1][up_y] == 0:
            up_x -= 1
        if dfs(up_x, up_y):
            return True

        # Move down
        down_x, down_y = x, y
        while down_x < rows - 1 and maze[down_x + 1][down_y] == 0:
            down_x += 1
        if dfs(down_x, down_y):
            return True

        return False

    return dfs(start[0], start[1])
```

```
# Test data
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 should be True
print(hasPath(maze, start, destination))
```

```

1  def hasPath(maze, start, destination):
2      rows, cols = len(maze), len(maze[0])
3      visited = [[False for _ in range(cols)] for _ in range(rows)]
4
5      def dfs(x, y):
6          if [x, y] == destination:
7              return True
8
9          if visited[x][y]:
10             return False
11
12         visited[x][y] = True
13
14         # Move left
15         left_x, left_y = x, y
16         while left_y > 0 and maze[left_x][left_y - 1] == 0:
17             left_y -= 1
18             if dfs(left_x, left_y):
19                 return True
20
21         # Move right
22         right_x, right_y = x, y
23         while right_y < cols - 1 and maze[right_x][right_y + 1] == 0:
24             right_y += 1
25             if dfs(right_x, right_y):
26                 return True
27
28         # Move up
29         up_x, up_y = x, y
30         while up_x > 0 and maze[up_x - 1][up_y] == 0:
31             up_x -= 1
32             if dfs(up_x, up_y):
33                 return True
34
35         # Move down
36         down_x, down_y = x, y
37         while down_x < rows - 1 and maze[down_x + 1][down_y] == 0:

```

TEST CASES:

