## . 490. The Maze

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Hint:
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1. 经典bfs
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2. 不能用set记录访问过的点,否则会超出内存限制

```
class Solution {
public boolean hasPath(int[][] maze, int[] start, int[] destination) {
   Queue<int[]> queue = new LinkedList<>();
   //Set<int[]> set = new HashSet<>();
   boolean[][] visit = new boolean[maze.length][maze[0].length];
   queue.add(start);
   //set.add(start);
   visit[start[0]][start[1]] = true;
   while(!queue.isEmpty()){
      int size = queue.size();
     for(int i = 0; i < size; i++){
        int[] temp = queue.poll();
        if(temp[0] == destination[0] && temp[1] == destination[1]){
           return true;
        List<int[]> nextStepList = getNextStep(maze, temp[0], temp[1]);
        for(int[] step: nextStepList){
           if(!visit[step[0]][step[1]]){
              queue.add(step);
              visit[step[0]][step[1]] = true;
   return false;
private List<int[]> getNextStep(int[][] maze, int row, int col){
   int[][] dir = new int[][]{\{0, 1\}, \{0, -1\}, \{1, 0\}, \{-1, 0\}\};
   List<int[]> nextStepList = new ArrayList<>();
   for(int i = 0; i < 4; i++){
      int newrow = row;
      int newcol = col;
     while(inBound(maze, newrow + dir[i][0], newcol + dir[i][1]) && maze[newrow + dir[i][0]][newcol + dir[i][1]] != 1){
        newrow = newrow + dir[i][0];
         newcol = newcol + dir[i][1];
      nextStepList.add(new int[]{newrow, newcol});
   return nextStepList;
private boolean inBound(int[]] maze, int row, int col){
   if(row < 0 \parallel col < 0 \parallel row >= maze.length \parallel col >= maze[0].length){
      return false;
   return true;
```