

Description

Solution

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Very clear Python DFS code, beat 99% +



Lingyao

★ 113

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84



```
class Solution(object):
    def cleanRoom(self, robot):
        """
        :type robot: Robot
        :rtype: None
        """
        self.dfs(robot, 0, 0, 0, 1, set())

    def dfs(self, robot, x, y, direction_x, direction_y, visited):
        robot.clean()
        visited.add((x, y))

        for k in range(4):
            neighbor_x = x + direction_x
            neighbor_y = y + direction_y
            if (neighbor_x, neighbor_y) not in visited and robot.move():
                self.dfs(robot, neighbor_x, neighbor_y, direction_x, direction_y, visited)
                robot.turnLeft()
                robot.turnLeft()
                robot.move()
                robot.turnLeft()
                robot.turnLeft()
            robot.turnLeft()
            direction_x, direction_y = -direction_y, direction_x
```

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