

Example 1:

```
[2,1,1] [2,2,1] [2,2,2] [2,2,2] [2,2,2]
[1,1,0] → [2,1,0] → [2,1,0] → [2,2,0] → [2,2,0]
[0,1,1] [0,1,1] [0,1,1] [0,2,1] [0,2,2]
Input: grid = [[2,1,1],[1,1,0],[0,1,1]]
Output: 4
```

Example 2:

```
[2,1,1] [2,2,1] [2,2,2]
[1,1,0] → [2,1,0] → [2,2,0]
[0,1,2] [0,2,2] [0,2,2]
Input: grid = [[2,1,1],[1,1,0],[0,1,2]]
Output: 2
```