

3x3 grid, St: 1x0, Move = 3

# moving in 4 direction

dp:

First Move

	0	1	2
0	0	0	0
1	1	0	0
2	0	0	0

Arrows indicate moves from (1,0) to (0,0), (1,1), and (2,0). A label '1op' is next to the (1,0) cell.

tmp-dp:

	0	1	2
0	0	0	0
1	1	1	0
2	1	0	0

Arrows indicate moves from (1,0) to (0,0), (1,1), and (2,0). Labels '3op', '4op', and '5op' are next to the (1,0) cell.

# from position [1,0] i can move to [0,0]

[2,0] [1,1]

Count = 1

Since I can go out from 1 place

dp

2nd move

	0	1	2
0	1	0	0
1	0	1	0
2	1	0	0

Arrows indicate moves from (1,0) to (0,0), (1,1), and (2,0). Labels '1op', '2op', '3op', and '4op' are next to the (1,0) cell.

tmp-dp

	0	1	2
0	0	2	0
1	3	0	1
2	0	2	0

Arrows indicate moves from (1,0) to (0,0), (1,1), and (2,0). Labels '1op', '2op', '3op', and '4op' are next to the (1,0) cell.

Count = 4 + (1 from prev) = 5



dp:

3rd Move

tmp-dp

		20p	
	0	2	0
30p	3	0	1
	0	2	0
		30p	

5	0	3
0	7	0
5	0	3

$$\text{Count} = 3 + 2 + 2 + 1 = 8$$

$$= 8 + (5 \text{ from prev Move}) = 13$$