



$$N: y = y + 1 \quad (1) \quad W: x = x - 1 \quad (3)$$

$$S: y = y - 1 \quad (2) \quad E: x = x + 1 \quad (4)$$

$x=0, y=0$	(1)		
$x=0, y=1$	(2)	N	1
$x=0+1, y=1$	(3)	E	4
$x=1+1, y=1$	(4)	E	4
$x=2, y=0$	(5)	S	2
$x=2+1, y=0$	(6)	E	4
$x=3, y=1$	(7)	N	1
$x=3, y=2$	(8)	N	1
$x=3+1, y=2$	(9)	E	4