1, 1	1, 2	1, 3
inner 1, 1 inner 1, 2		
inner 2, 1 inner 2, 2		
2, 1	2, 2	2, 3
	inner 1, 1 inner 1, 2	
	inner 2, 1 inner 2, 2	
3, 1	3, 2	3, 3
		inner 1, 1 inner 1, 2
		inner 2, 1 inner 2, 2