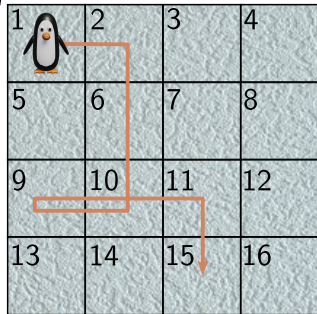


a)


 $s_1, s_2, s_3, s_4, s_5, s_6, s_7, s_8$
 $\tau = [1, 2, 6, 10, 9, 10, 11, 15]$

b)

	s_t														
s_{t+1}	0	0.33	0	0	0.33	0	0	0	0	0	0	0	0	0	0
	0.5	0	0.33	0	0	0.25	0	0	0	0	0	0	0	0	0
	0	0.33	0	0.5	0	0	0.25	0	0	0	0	0	0	0	0
	0	0	0.33	0	0	0	0	0.33	0	0	0	0	0	0	0
	0.5	0	0	0	0	0.25	0	0	0.33	0	0	0	0	0	0
	0	0.33	0	0	0.33	0	0.25	0	0	0.25	0	0	0	0	0
	0	0	0.33	0	0	0.25	0	0.33	0	0	0.25	0	0	0	0
	0	0	0	0.5	0	0	0.25	0	0	0	0	0.33	0	0	0
	0	0	0	0	0.33	0	0	0	0	0.25	0	0	0.5	0	0
	0	0	0	0	0	0.25	0	0	0.33	0	0.25	0	0	0.33	0
	0	0	0	0	0	0	0.25	0	0	0.25	0	0.33	0	0	0.33
	0	0	0	0	0	0	0	0.33	0	0	0.25	0	0	0	0.5
	0	0	0	0	0	0	0	0	0.33	0	0	0	0	0.33	0
	0	0	0	0	0	0	0	0	0	0.25	0	0	0.5	0	0.33
	0	0	0	0	0	0	0	0	0	0	0.25	0	0	0.33	0
	0	0	0	0	0	0	0	0	0	0	0	0.33	0	0	0.33

$Pr(s_{t+1}|s_t)$