

Input memory

000	001, \emptyset 001, \emptyset
001	110, W 010, \emptyset
010	011, \emptyset 011, \emptyset
011	000, \emptyset 000, \emptyset
100	001, \emptyset 101, \emptyset
101	010, \emptyset 110, \emptyset
110	111, \emptyset 111, \emptyset
111	100, \emptyset 100, \emptyset

(a) Position 1

Input memory

000	001, \emptyset 001, \emptyset 101, \emptyset 001, \emptyset
001	110, W 110, W 010, \emptyset 010, \emptyset
010	011, \emptyset 011, \emptyset 011, \emptyset 011, \emptyset
011	000, \emptyset 000, \emptyset 000, \emptyset 000, \emptyset
100	101, \emptyset 001, \emptyset 101, \emptyset 101, \emptyset
101	110, N 010, \emptyset 110, N 110, \emptyset
110	111, \emptyset 111, \emptyset 111, \emptyset 111, \emptyset
111	100, \emptyset 100, \emptyset 100, \emptyset 100, \emptyset

(b) Position 5

Figure 1: State machine(s) (a) at position 1, (b) at position 5.

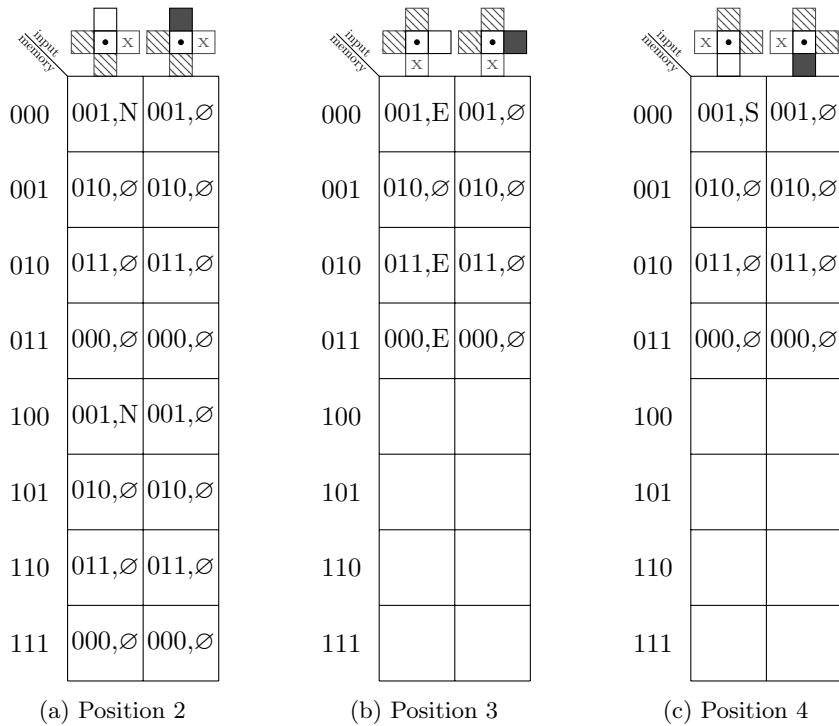


Figure 2: State machine(s) (a) at position 2, (b) at position 3, (c) at position 4.

		input memory	
		001	001,∅
000		010,∅	010,∅
001	011,∅	011,∅	
010	000,∅	000,∅	
011			
100			
101			
110			
111			

(a) Position 6

		input memory	
		001,E	001,∅
000		010,∅	010,∅
001	011,E	011,E	011,∅
010	000,E	000,E	000,∅
011	001,S	001,E	001,S
100	110,∅	110,∅	110,∅
101	111,∅	111,∅	111,∅
110	100,∅	100,∅	100,∅
111			

(b) Position 7

Figure 3: State machine(s) (a) at position 6, (b) at position 7.

		Input history			
		X	X	X	X
		•	•	•	•
000	001,S	001, \emptyset	001,S	001, \emptyset	
001	010,S	010, \emptyset	010,S	010, \emptyset	
010	111,W	111,W	011,S	011, \emptyset	
011	100,W	100,W	000,S	000, \emptyset	
100					
101					
110					
111					

(a) Position 8

		Input history			
		X	X	X	X
		•	•	•	•
000	001,S	101, \emptyset	001,S	001, \emptyset	
001	010, \emptyset	010, \emptyset	010, \emptyset	010, \emptyset	
010	011, \emptyset	011, \emptyset	011, \emptyset	011, \emptyset	
011	000, \emptyset	000, \emptyset	000, \emptyset	000, \emptyset	
100	101, \emptyset	101, \emptyset	101, \emptyset	101, \emptyset	
101	110,N	110,N	010, \emptyset	110, \emptyset	
110	111, \emptyset	111, \emptyset	111, \emptyset	111, \emptyset	
111	100, \emptyset	100, \emptyset	100, \emptyset	100, \emptyset	

(b) Position 9

Figure 4: State machine(s) (a) at position 8, (b) at position 9.