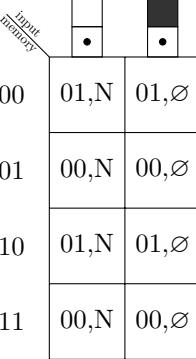


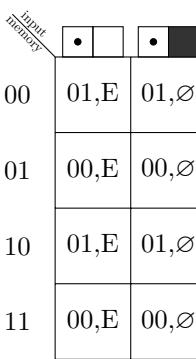
		input memory			
		01,∅	01,∅	01,∅	01,∅
		00,W	00,W	00,∅	00,∅
00	01,∅	01,∅	01,∅	01,∅	01,∅
01	00,W	00,W	00,∅	00,∅	00,∅
10	01,∅	01,∅	01,∅	01,∅	01,∅
11	00,W	00,W	00,∅	00,∅	00,∅

Figure 1: State machine at position 1



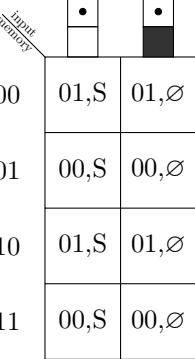
00	01,N	01,∅
01	00,N	00,∅
10	01,N	01,∅
11	00,N	00,∅

(a) Position 2



00	01,E	01,∅
01	00,E	00,∅
10	01,E	01,∅
11	00,E	00,∅

(b) Position 3



00	01,S	01,∅
01	00,S	00,∅
10	01,S	01,∅
11	00,S	00,∅

(c) Position 4

Figure 2: State machines (a) at position 2, (b) at position 3, (c) at position 4

		input memory							
		?	?	?	?	?	?	?	?
		11,∅	01,∅	01,∅	11,∅	01,∅	01,∅	11,∅	01,∅
00									
01		00,W	00,N	00,N	10,∅	00,N	00,N	00,∅	00,∅
10		11,∅	11,∅	11,∅	11,∅	11,∅	11,∅	11,∅	01,∅
11		00,W	00,W	00,W	00,W	00,W	00,W	10,∅	00,∅

		input memory							
		?	?	?	?	?	?	?	?
		01,∅	01,∅	01,∅	01,∅	11,∅	11,∅	11,∅	11,∅
00									
01		00,N	00,N	00,N	00,N	00,W	00,W	10,∅	10,∅
10		11,∅	11,∅	01,∅	01,∅	11,∅	11,∅	11,∅	11,∅
11		10,∅	10,∅	10,∅	00,∅	00,W	00,W	10,∅	10,∅

Figure 3: State machine at position 5

		input memory				input memory				input memory	
		?	?			?	?			?	?
		01,N	01,∅			01,E	01,∅			01,S	01,∅
00											
01		00,N	00,∅			00,E	00,∅			00,S	00,∅
10		01,N	01,∅			01,E	01,∅			01,S	01,∅
11		00,N	00,∅			00,E	00,∅			00,S	00,∅

(a) Position 6

(b) Position 7

(c) Position 8

Figure 4: State machines (a) at position 6, (b) at position 7, (c) at position 8

input memory

								
00	01,∅	01,∅	11,∅	01,∅	11,∅	01,∅	11,∅	01,∅
01	00,∅	00,N	10,∅	00,N	10,∅	00,N	10,∅	00,N
10	11,∅	01,∅	11,∅	01,∅	11,S	11,S	11,S	11,S
11	10,∅	00,∅	10,∅	00,∅	10,∅	10,∅	10,∅	10,∅

								
00	11,∅	01,∅	11,∅	01,∅	11,∅	01,∅	11,∅	01,∅
01	10,∅	00,N	10,∅	00,N	10,∅	00,N	10,∅	00,N
10	11,S							
11	10,∅	10,∅	10,∅	10,∅	10,∅	10,∅	10,∅	10,∅

Figure 5: State machine at position 9