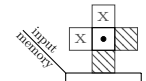
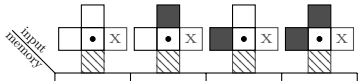


000	001,∅
001	010,∅
010	011,∅
011	000,∅
100	
101	
110	
111	

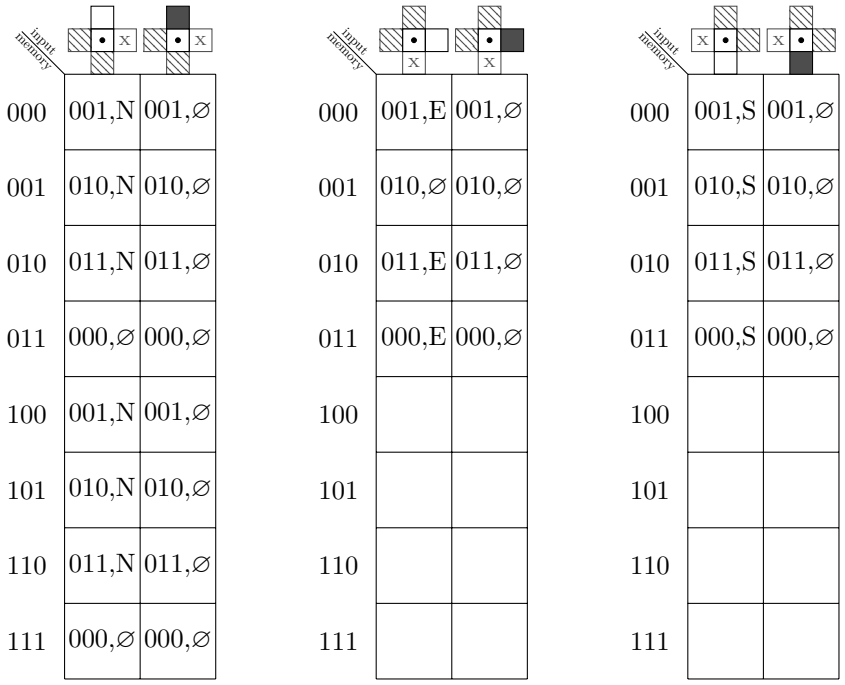
(a) Position 1



000	001,∅	001,∅	001,∅	001,∅
001	110,W	110,W	010,∅	010,∅
010	011,∅	011,∅	111,∅	011,∅
011	100,W	100,W	000,∅	000,∅
100	101,∅	001,∅	101,∅	101,∅
101	110,W	110,W	110,N	110,∅
110	111,∅	111,∅	111,∅	111,∅
111	100,W	100,W	100,∅	100,∅

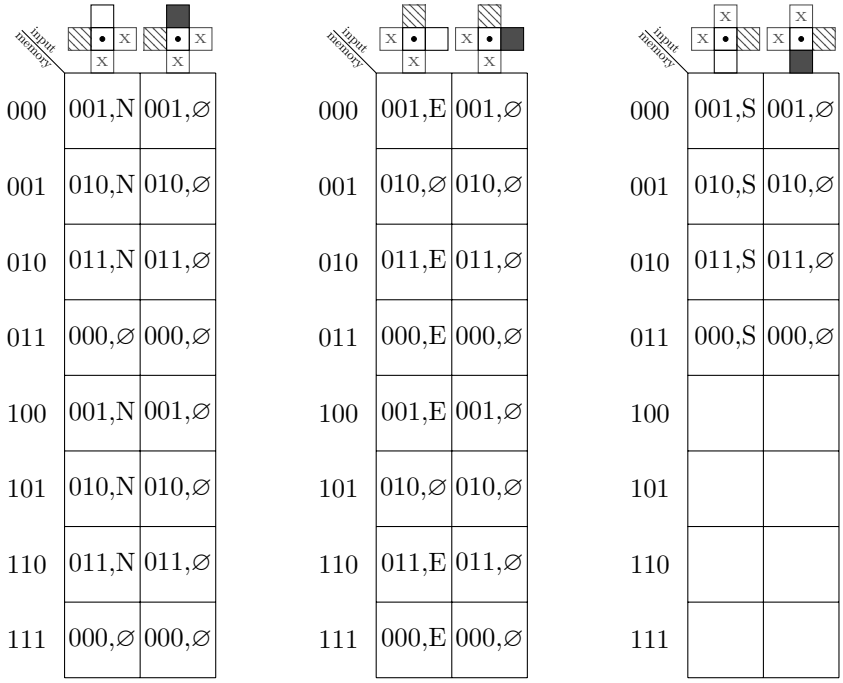
(b) Position 5

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



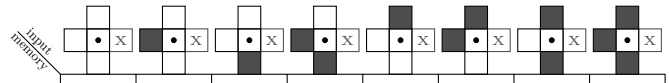
(a) Position 2 (b) Position 3 (c) Position 4

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



(a) Position 6 (b) Position 7 (c) Position 8

Figure 3: State machine(s) (a) at position 6, (b) at position 7, (c) at position 8.



000	001,∅	001,∅	001,∅	001,∅	001,∅	001,∅	001,∅	001,∅
001	010,∅	010,∅	010,∅	010,∅	010,∅	010,∅	010,∅	010,∅
010	011,∅	011,S	111,∅	111,∅	011,∅	011,S	011,∅	011,∅
011	100,W	000,∅	100,W	000,∅	100,W	000,∅	100,W	000,∅
100	101,∅	101,∅	101,∅	101,∅	101,∅	101,∅	101,∅	101,∅
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110	111,∅	111,∅	111,∅	111,∅	111,∅	111,∅	111,∅	111,∅
111	100,W	100,∅	100,W	100,∅	100,W	100,∅	100,W	100,∅

(a) Position 9

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