inputs: -010	inputs: -110	inputs: -000	inputs: -100	inputs: -101	inputs: -001	inputs: -011	inputs: -111	
001000000000010000000100000000000000000	011000000000010000000100000000000000000	000000000000010000000100000000000000000	010000000000010000000100000000000000000	010000000100001000000000000000000011100	0000000000000100000000000000000011000	0010000000000100000000000000000011000	-111	
states: 137438953472	states: 137438953472	states: 137438953472	states: 137438953472					