

A

		S_0		S_1	
		$S_1 S_0$			
		00	01	11	10
I	0	0	0	0	0
		000	010	110	100
I	1	1	0	0	0
		001	011	111	101

$$A = \underline{I \overline{S_1} \overline{S_0}}$$