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a. inputs: switch, motion, Disable switch
outputs: light, alarm

			alarm(A)	light(L)
b.	S	M ₁	¬D ∧ M ₁ ∨ S	(¬D ∧ M ₁) ∨ S
	0	0	0	0
	0	1	0	1
	1	0	0	1
	1	1	1	1
	0	0	0	0
	1	0	0	1
	1	1	0	0
	1	1	0	1

