











$A \cdot B$  $(A + B) \cdot \overline{C}$  $\overline{A} \oplus B$

# Security system

- Two movement sensors: A0 and A1. These sense movement
- One light sensor: B. This senses if it is light or not

System turns on a security light (Q) if either movement sensor is activated whilst it is not light.

<b>A</b>	<b>B</b>	<b>C</b>	<b>A OR B</b>	<b>NOT C</b>	<b>(A OR B) AND (NOT C)</b>
0	0	0	0		
0	0	1	0		
0	1	0	1		
0	1	1	1		
1	0	0			
1	0	1			
1	1	0			
1	1	1			