

☒—TruthTable

Example Use [* = and + = or ' = not] or [& = and | = or ¬ = not] in a string

$$Green := P' \cdot L' \cdot T'$$

$$PRed := P \cdot T' + P \cdot L' \cdot T$$

$$TRed := P' \cdot T + P \cdot L' \cdot T$$

$$LRed := P' \cdot L + P \cdot L \cdot T'$$

$$Alarm := P \cdot L \cdot T' + P \cdot L' \cdot T + P' \cdot L \cdot T$$

$$Siren := P \cdot L \cdot T$$

$$T := TruthTables \left(\begin{array}{l} \text{"Green"} \\ \text{"PRed"} \\ \text{"TRed"} \\ \text{"LRed"} \\ \text{"Alarm"} \\ \text{"Siren"} \end{array} \right) = \begin{array}{c} \begin{array}{cccccccccc} \text{"L"} & \text{"P"} & \text{"T"} & \text{"Green"} & \text{"PRed"} & \text{"TRed"} & \text{"LRed"} & \text{"Alarm"} & \text{"Siren"} \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 & 1 & 1 & 0 & 1 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 1 & 0 & 1 & 0 & 0 & 1 & 1 & 1 & 0 \\ 1 & 1 & 0 & 0 & 1 & 0 & 1 & 1 & 0 \\ 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 1 \end{array} \end{array}$$

Not in the same order, but with same output.

TS	LS	PS
0	0	0
0	0	1
0	1	0
0	1	1
1	0	0
1	0	1
1	1	0
1	1	1

Green Light	PRed	TRed	LRed	Alarm	Siren
1	0	0	0	0	0
0	1	0	0	0	0
0	0	0	1	0	0
0	1	0	1	1	0
0	0	1	0	0	0
0	1	1	0	1	0
0	0	1	1	1	0
0	0	0	0	0	1

Alvaro