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Q1. Consider the following truth table with four inputs A,B,C,D and one output Q. Provide a simplified Boolean expression AND draw the resulting logic circuit.

A	B	C	D	Q
1	1	1	1	0
1	1	0	0	0
1	0	1	1	1
0	0	1	1	1
1	0	1	0	0
0	1	0	0	1
1	1	0	1	1
0	0	0	1	1
1	1	1	0	1
0	0	0	0	1
0	0	1	0	1
0	1	1	1	0
1	0	0	0	0
1	0	0	1	1
0	1	0	1	1
0	1	1	0	0

Q2. Consider the following logic circuit. Provide the truth table that corresponds to this circuit.