Name: Muhammad Sherjeel Akhtar
Roll No: 20P- 0101
Section: 2D1

DLD LAB TASK: 2

Submitted To: Maam Anam
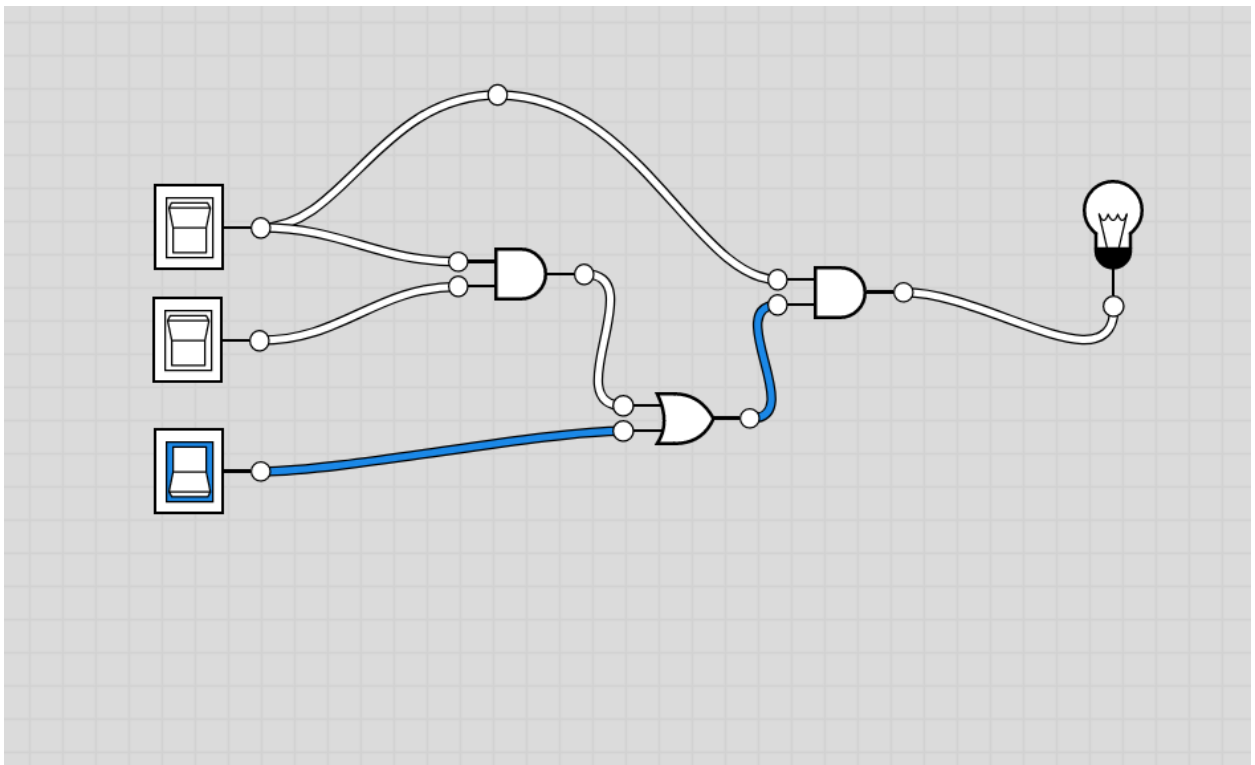
Question: 1

Part 1:

Output Expression: A. ((A.B) +C)

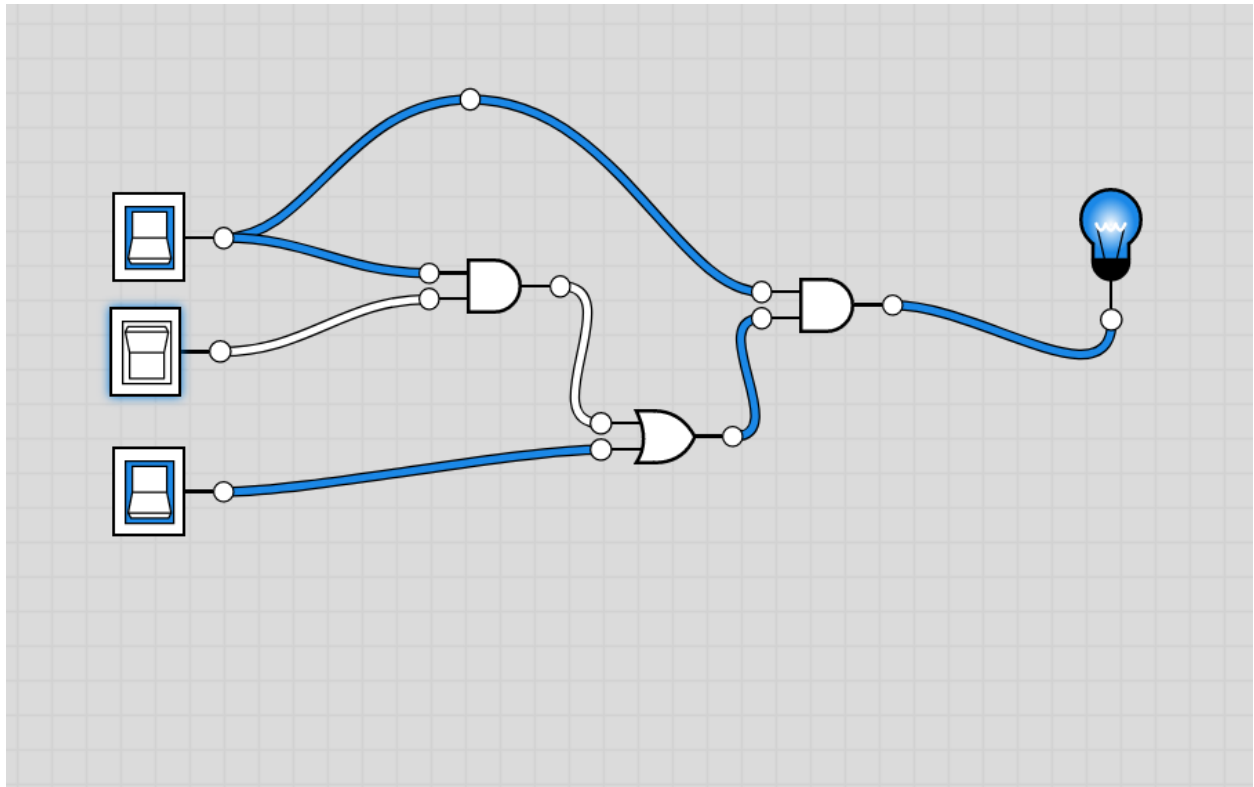| A	B	C	R
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0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	1

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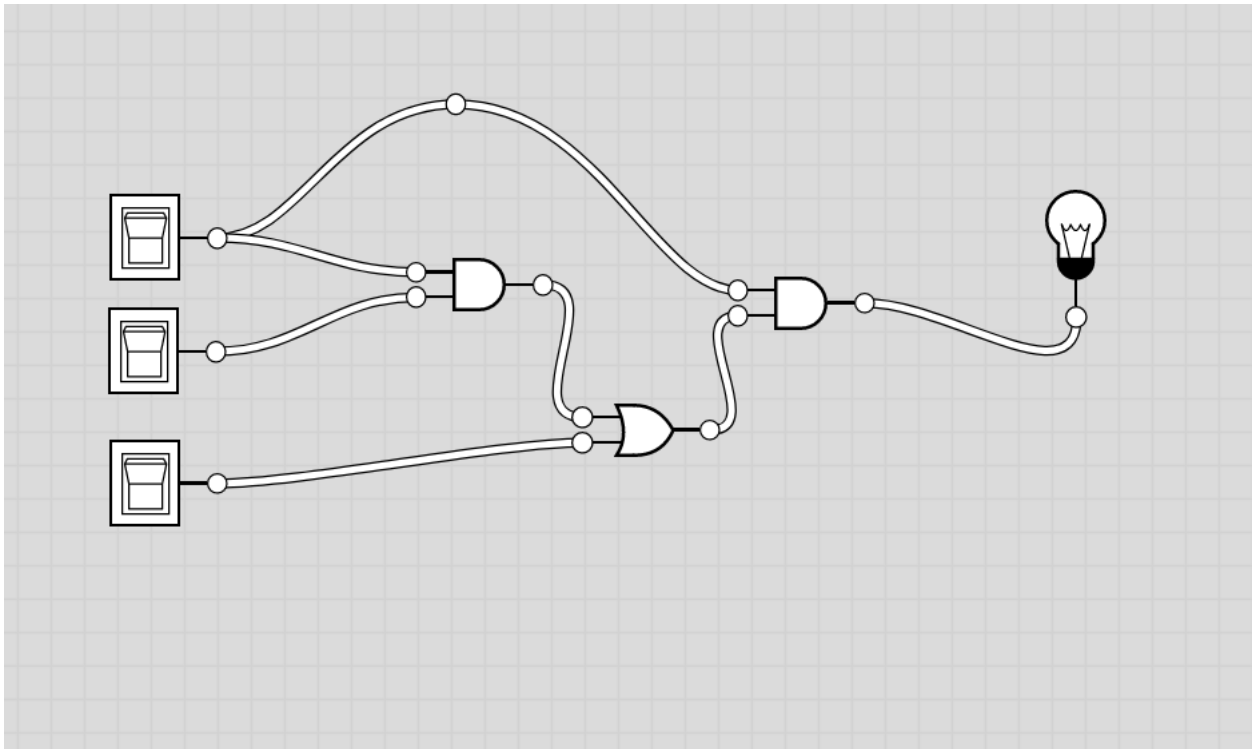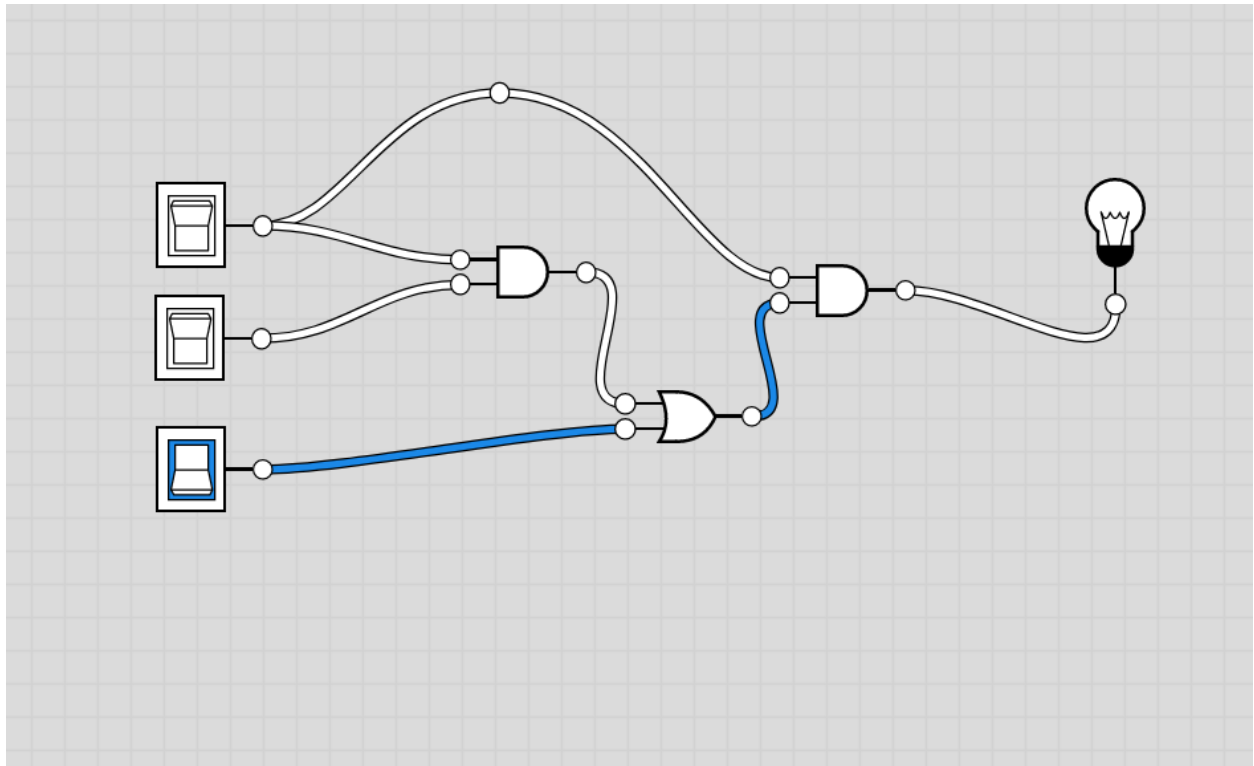
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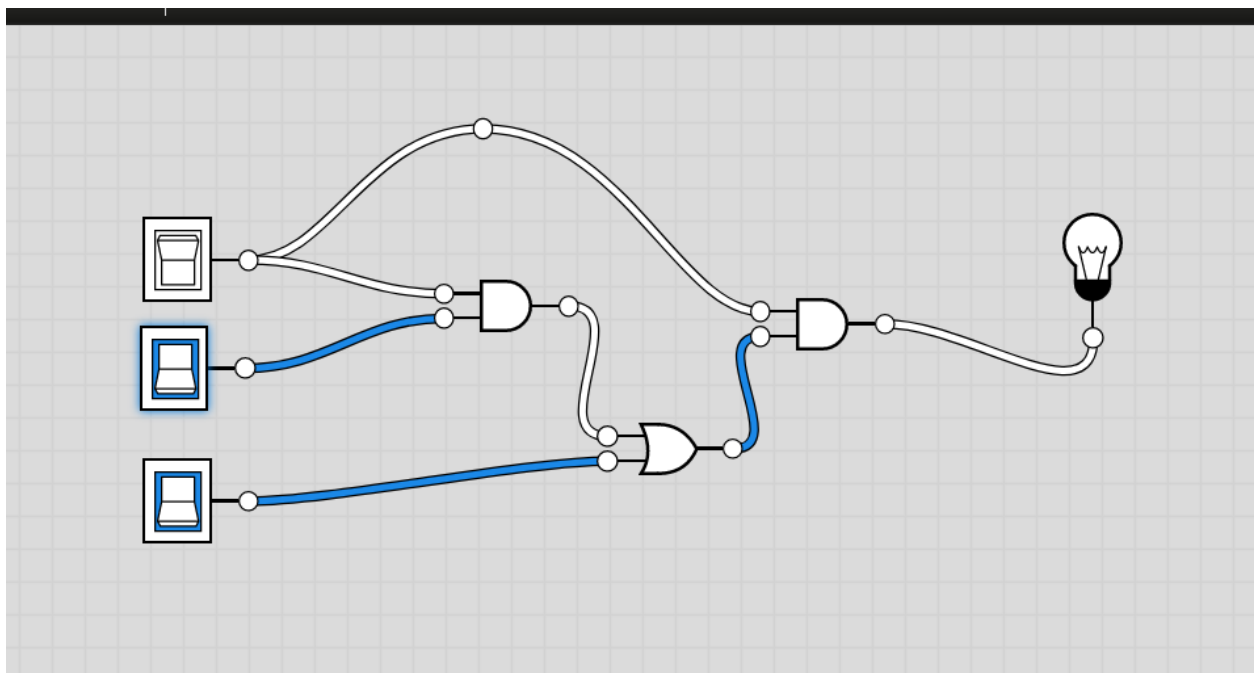
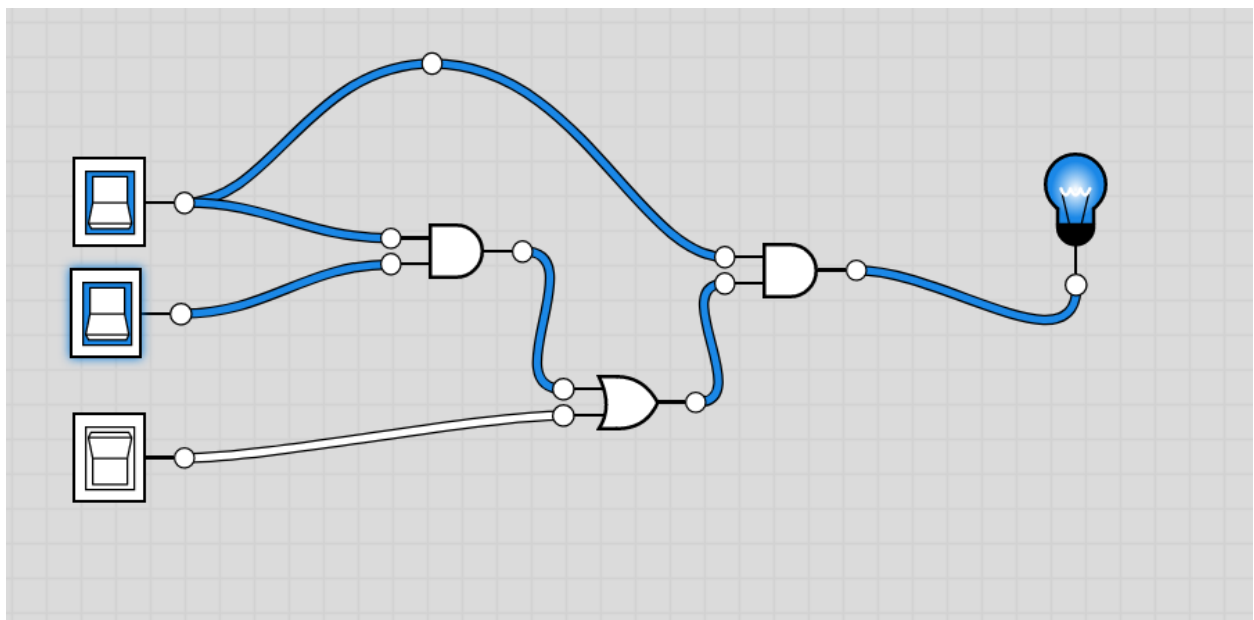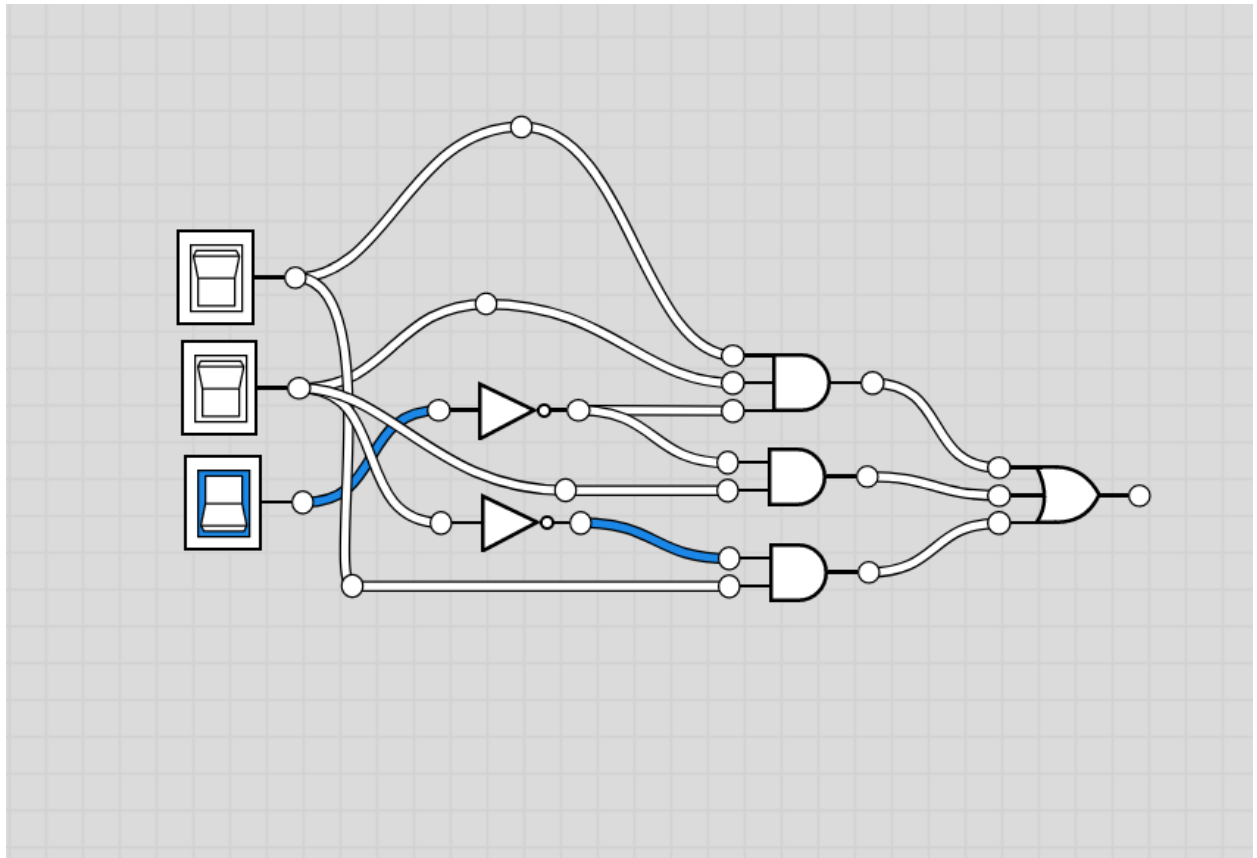100
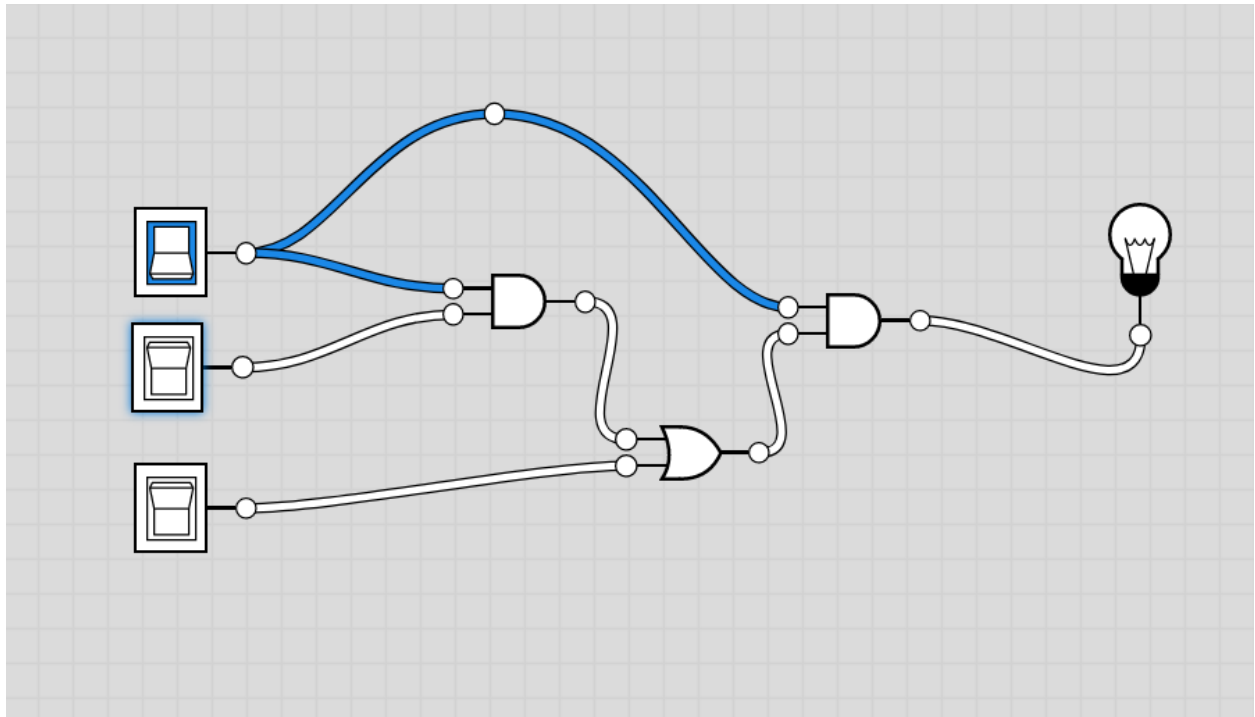
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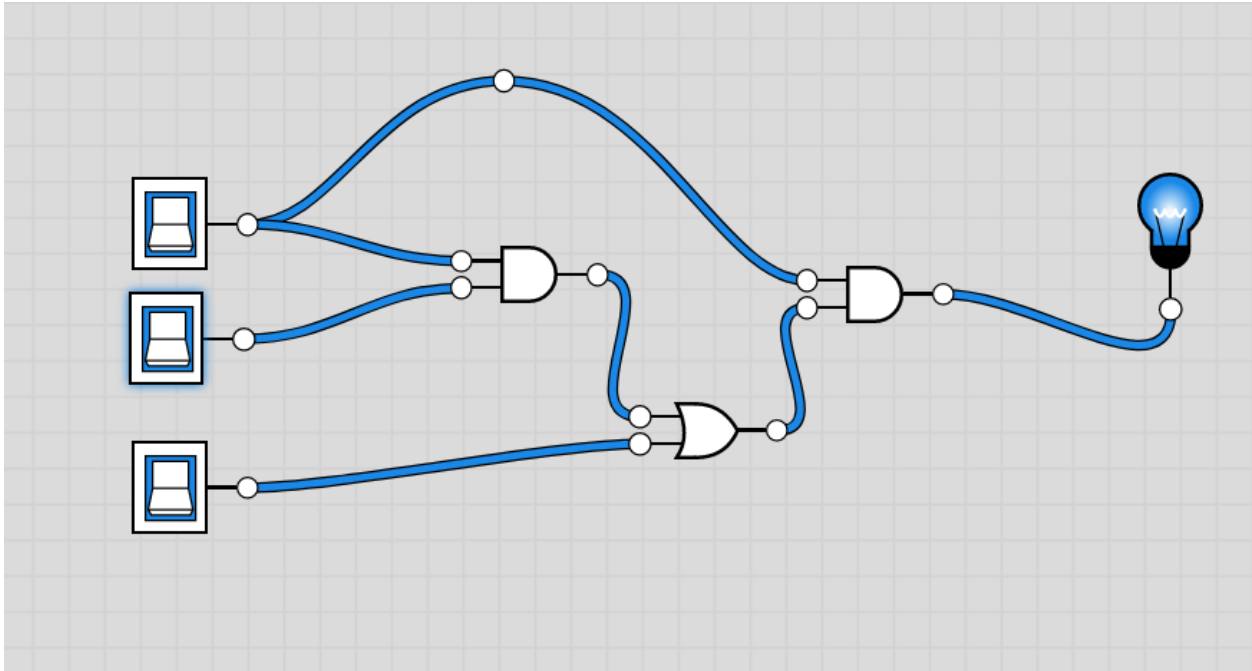
Part 2:

Expression: (A.B.C')+(B.C')+(A.B')

A	B	C	R
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0	0	1	0
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	1

1	1	0	1
1	1	1	0

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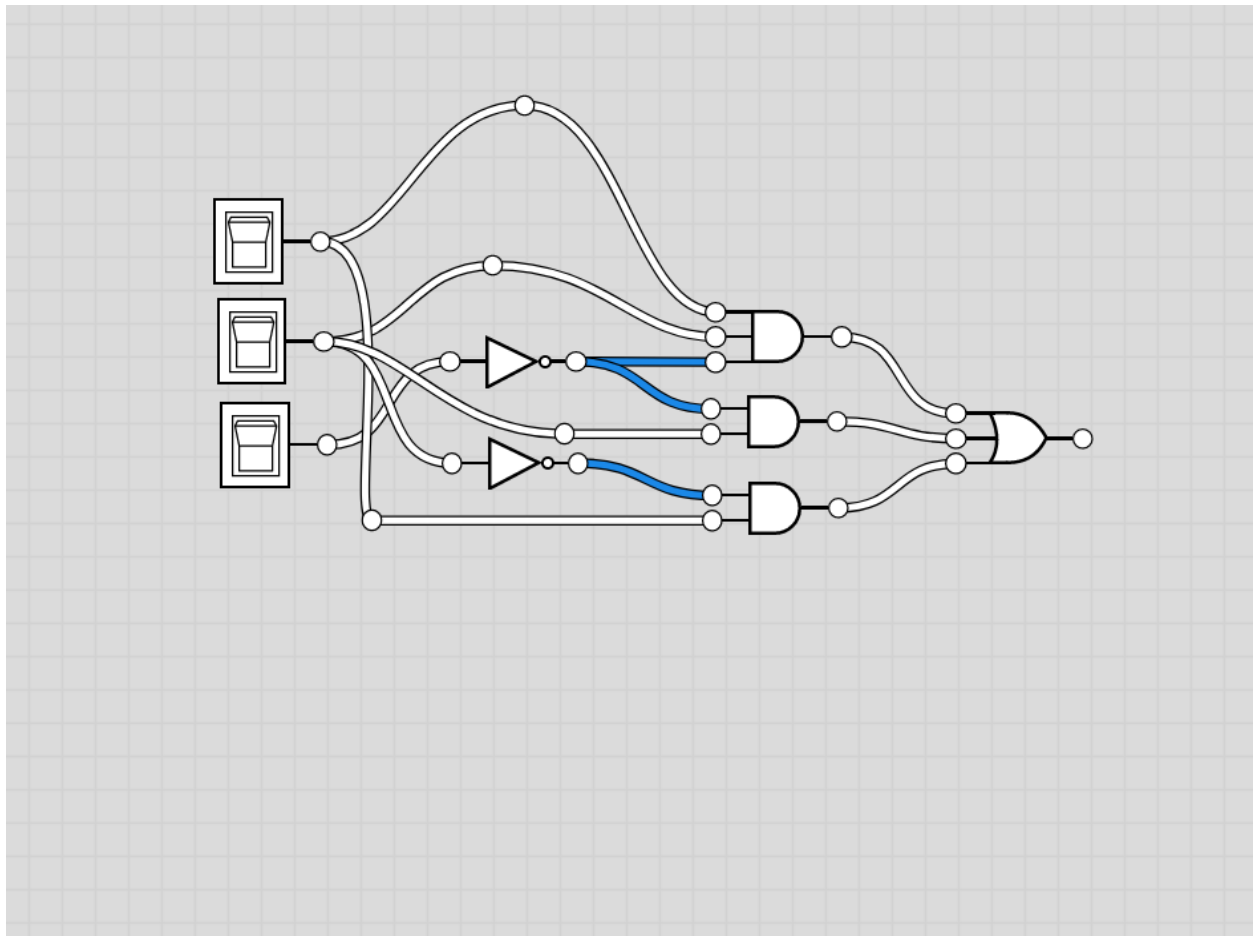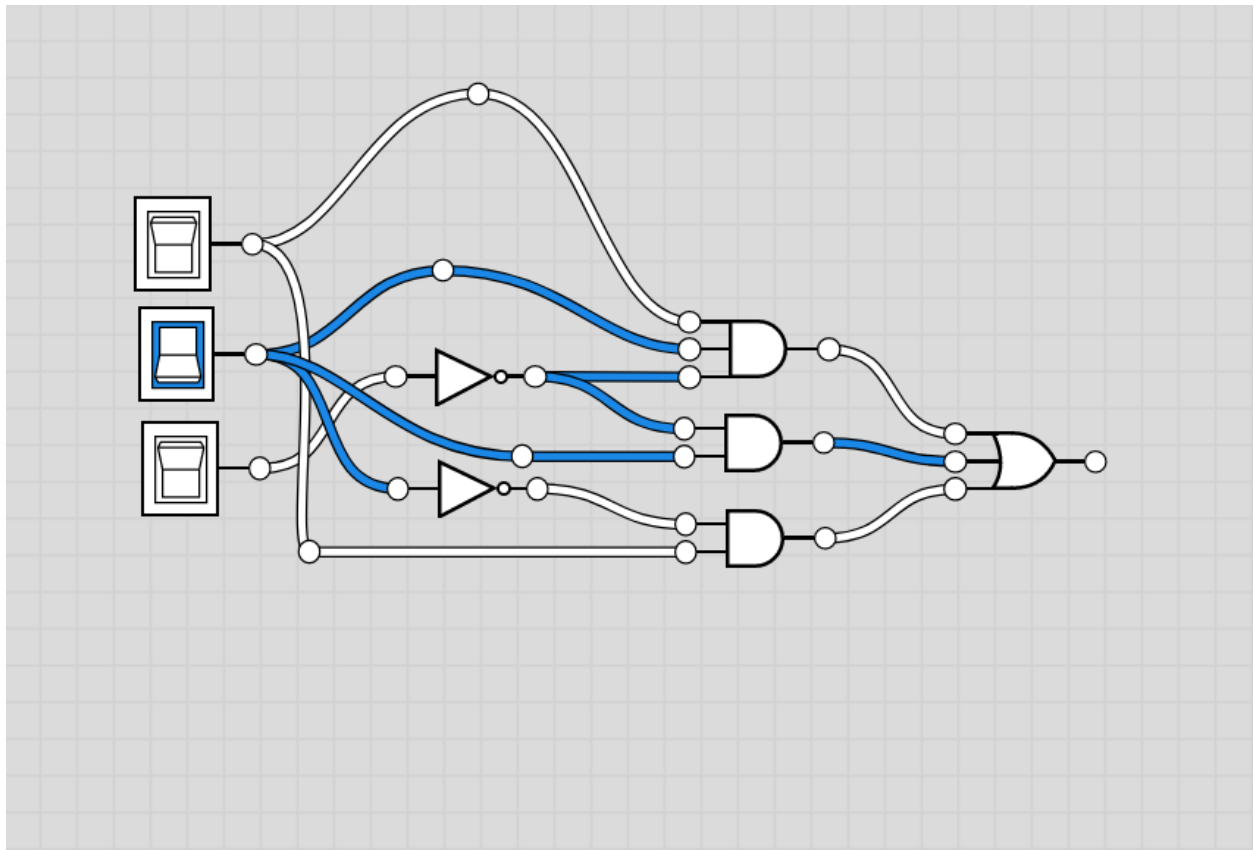
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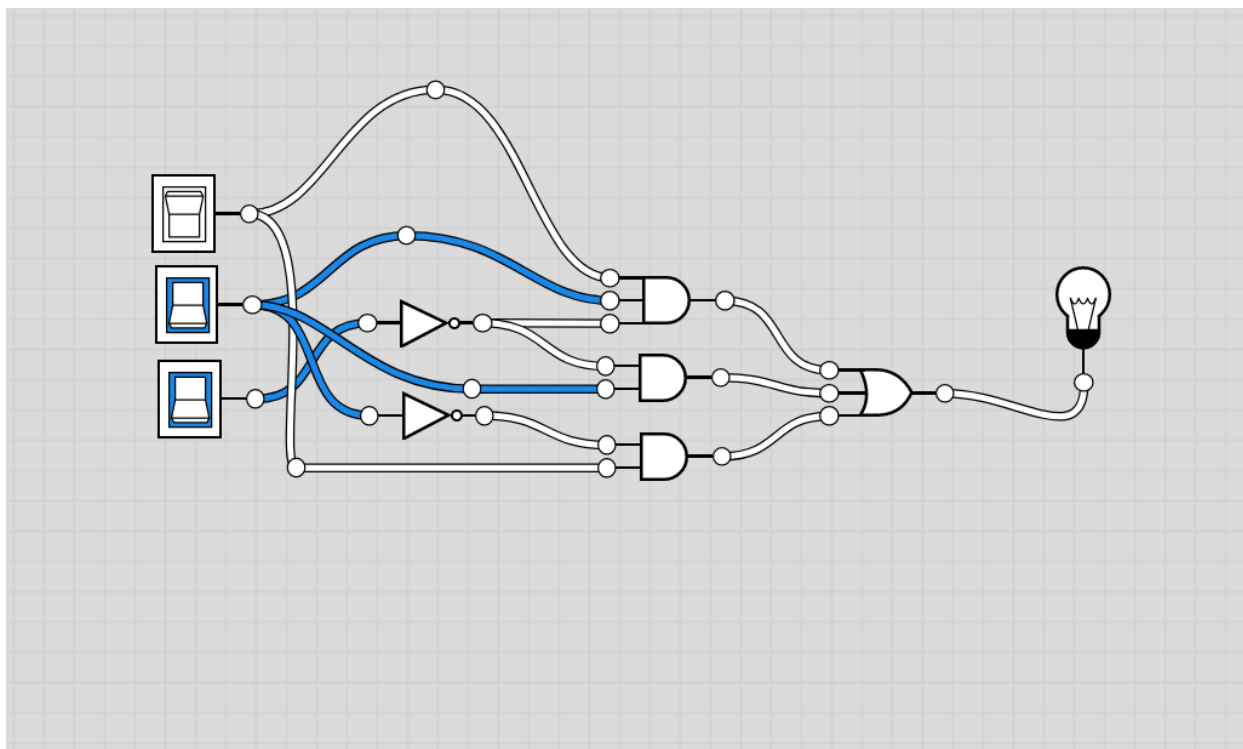
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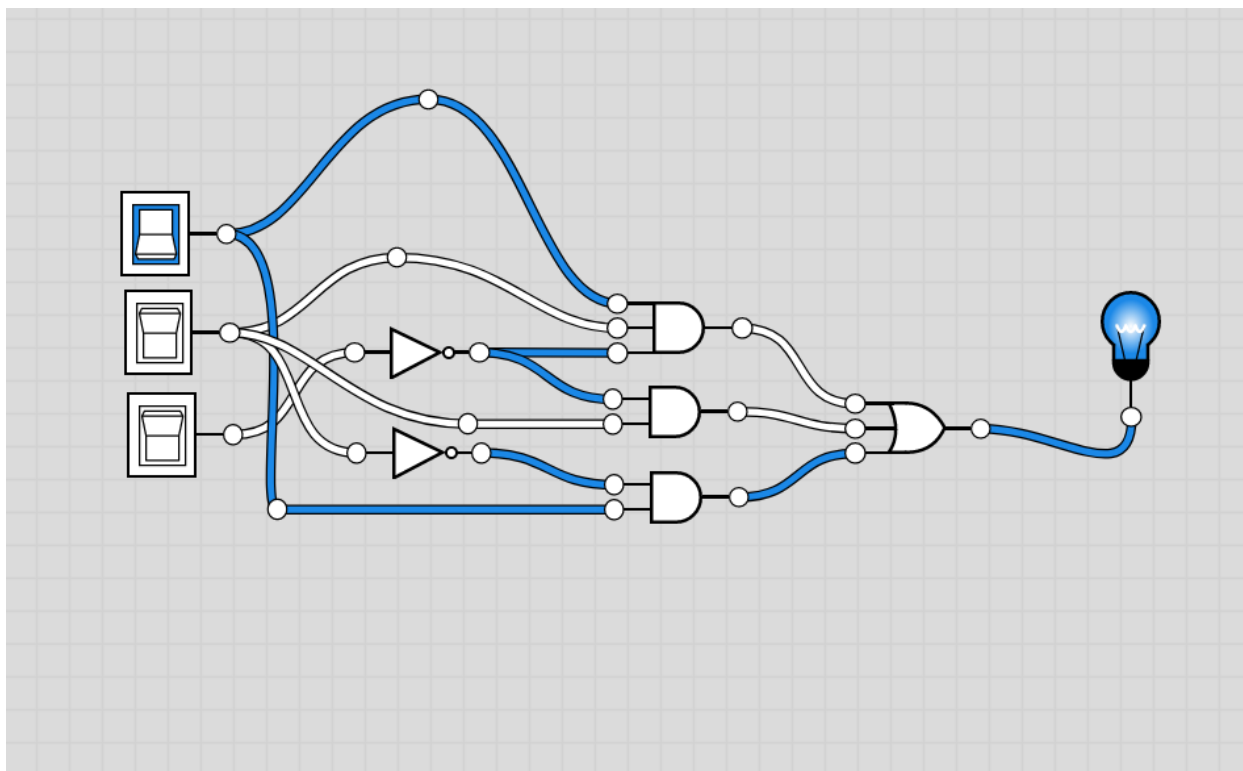
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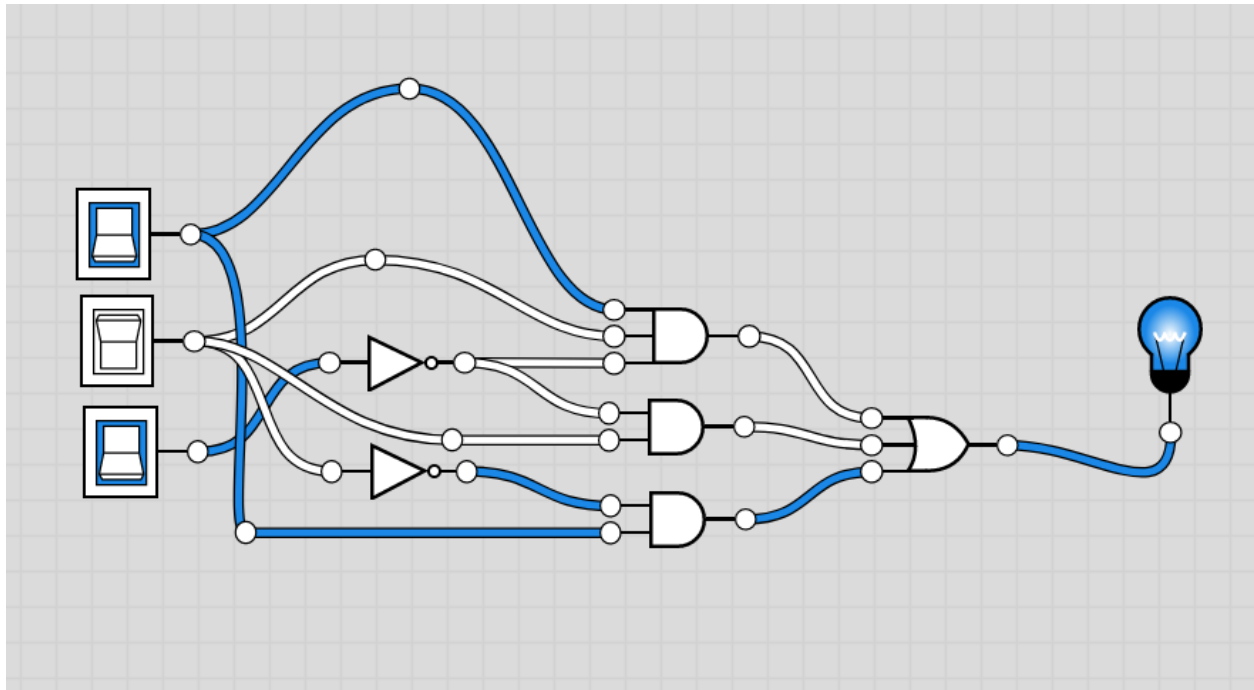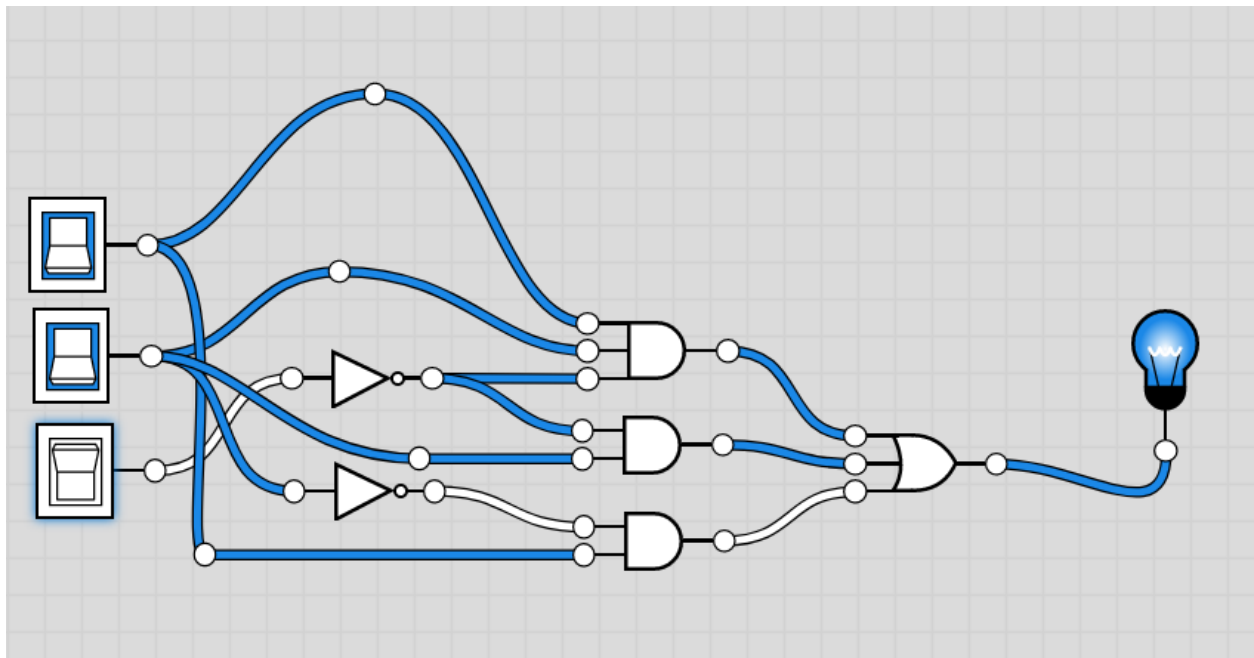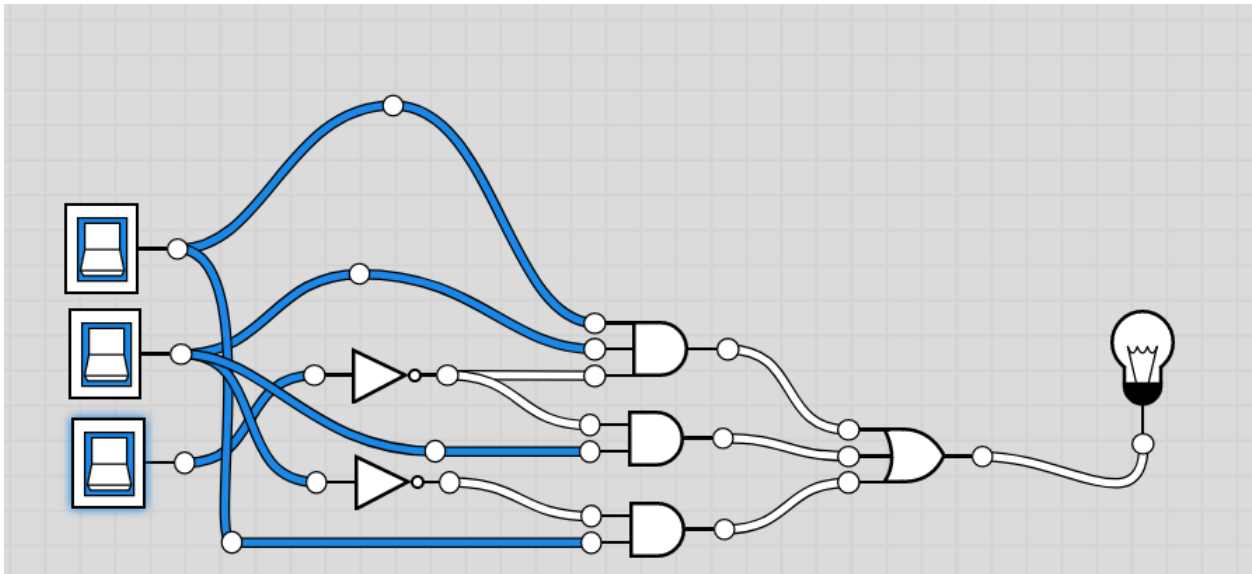

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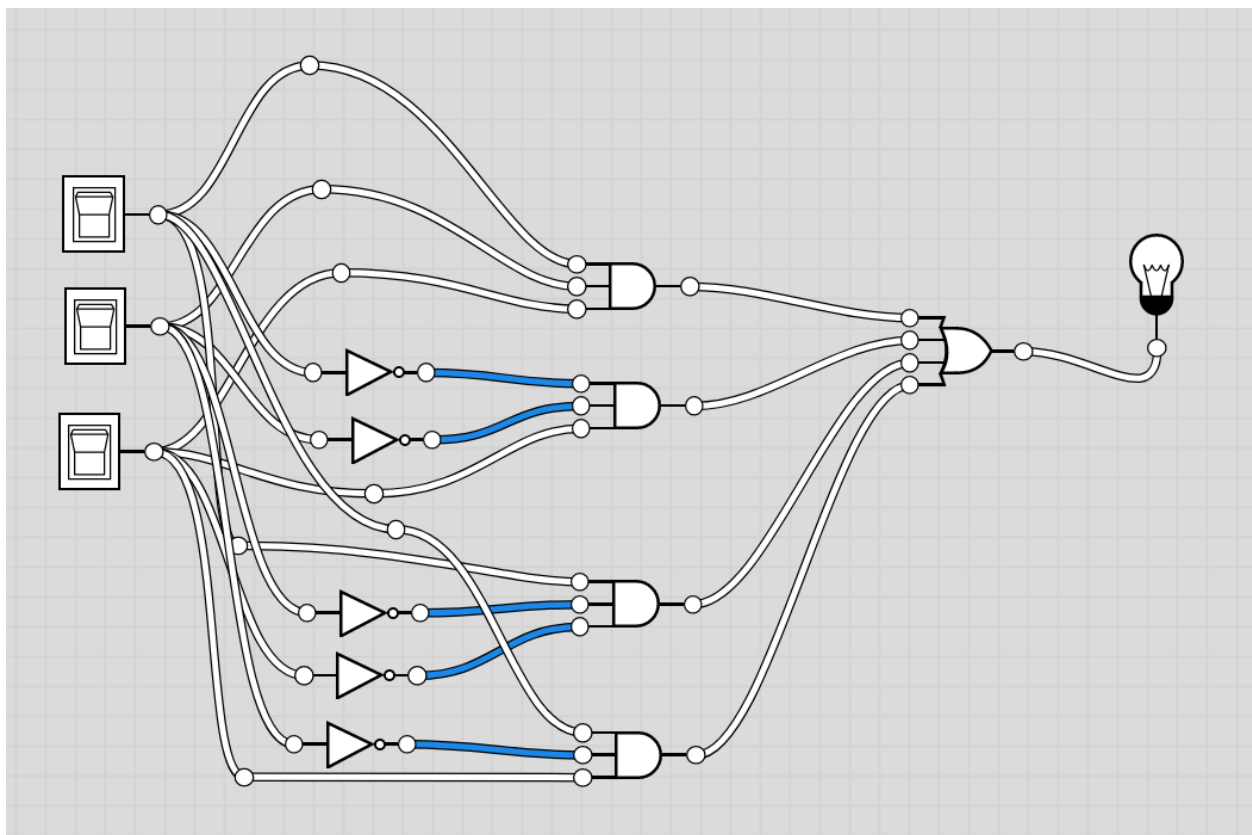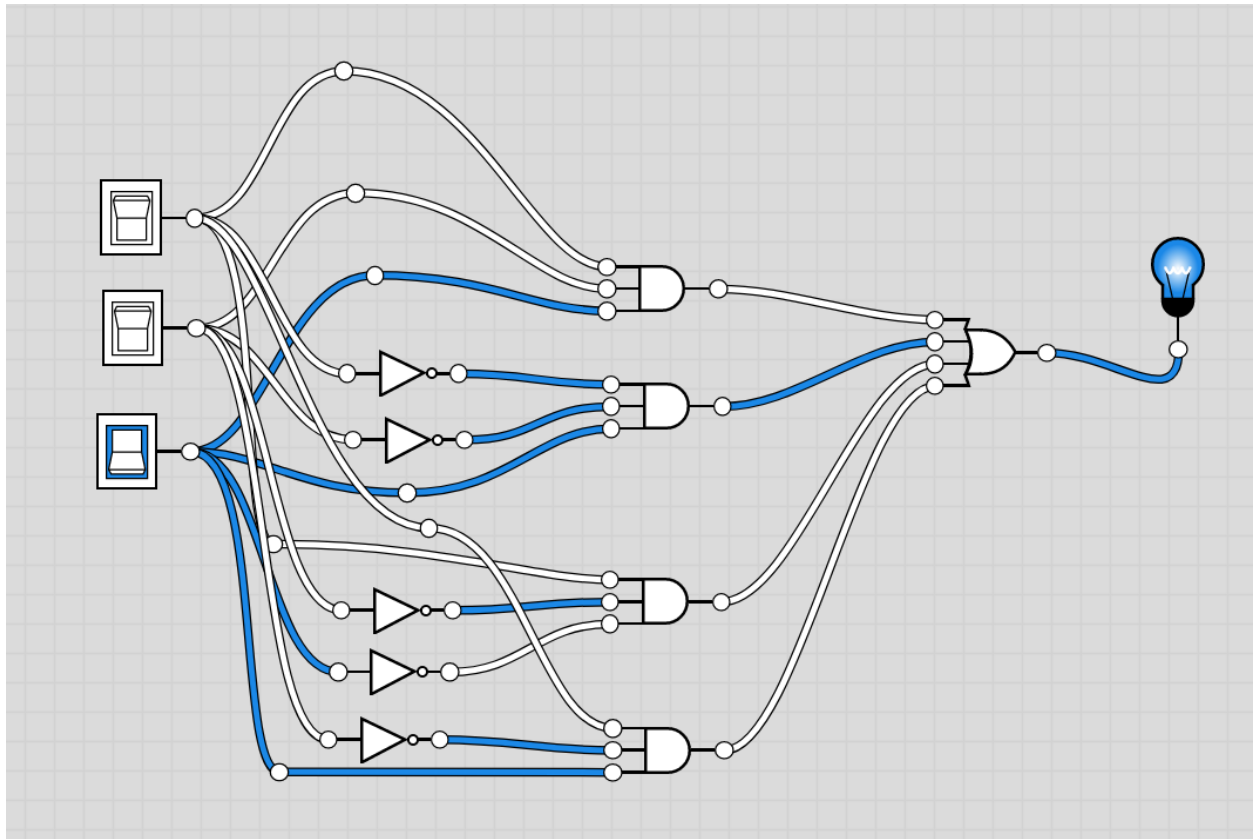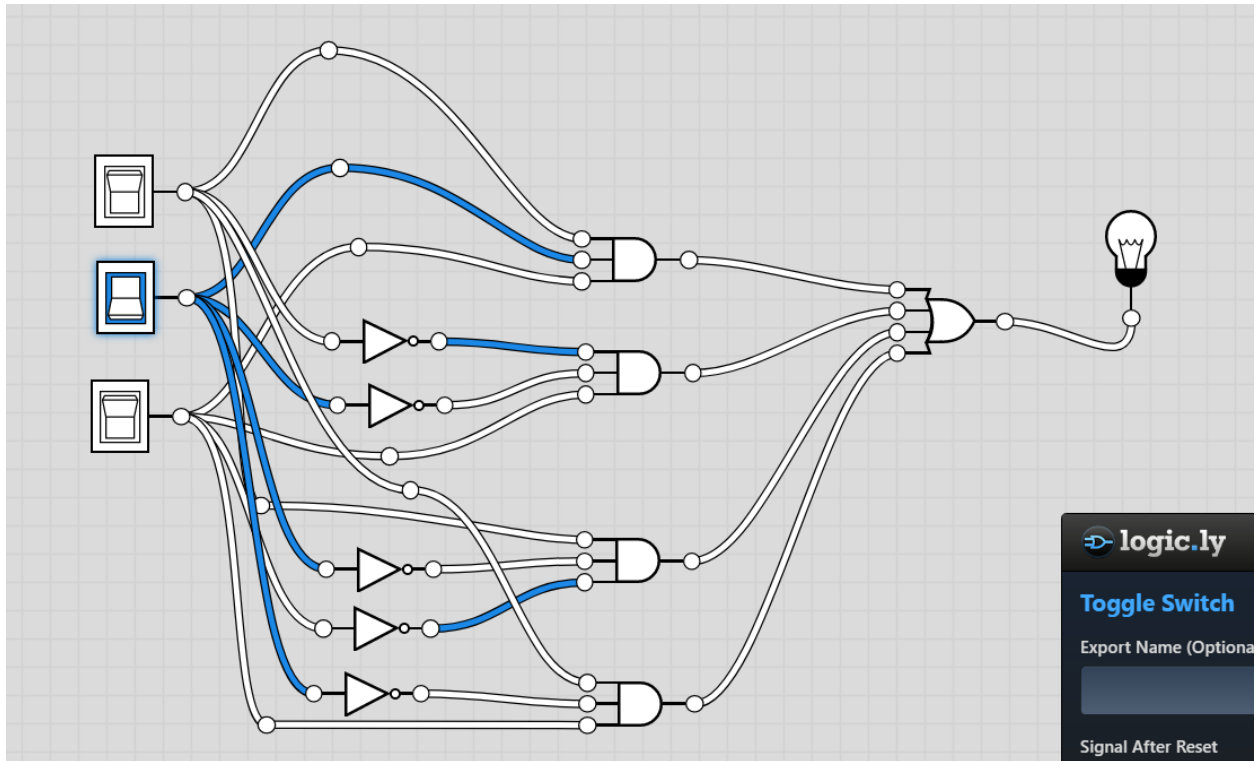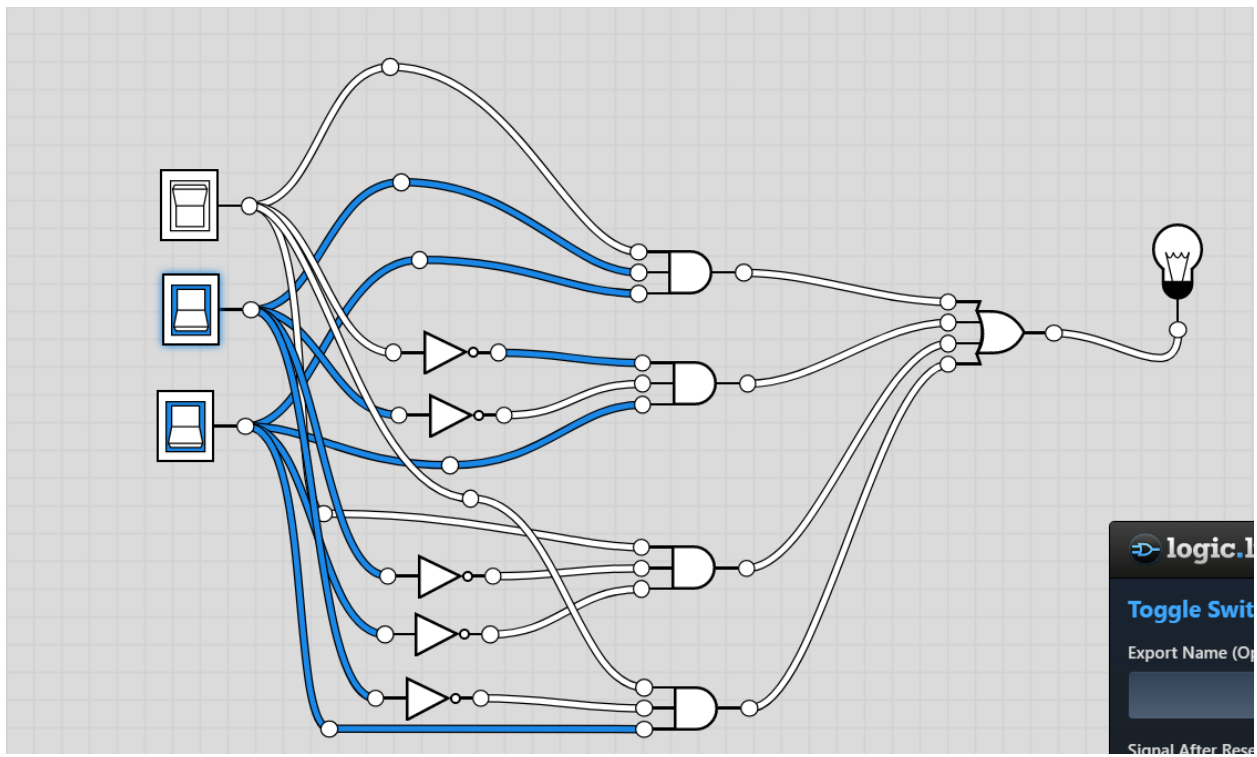

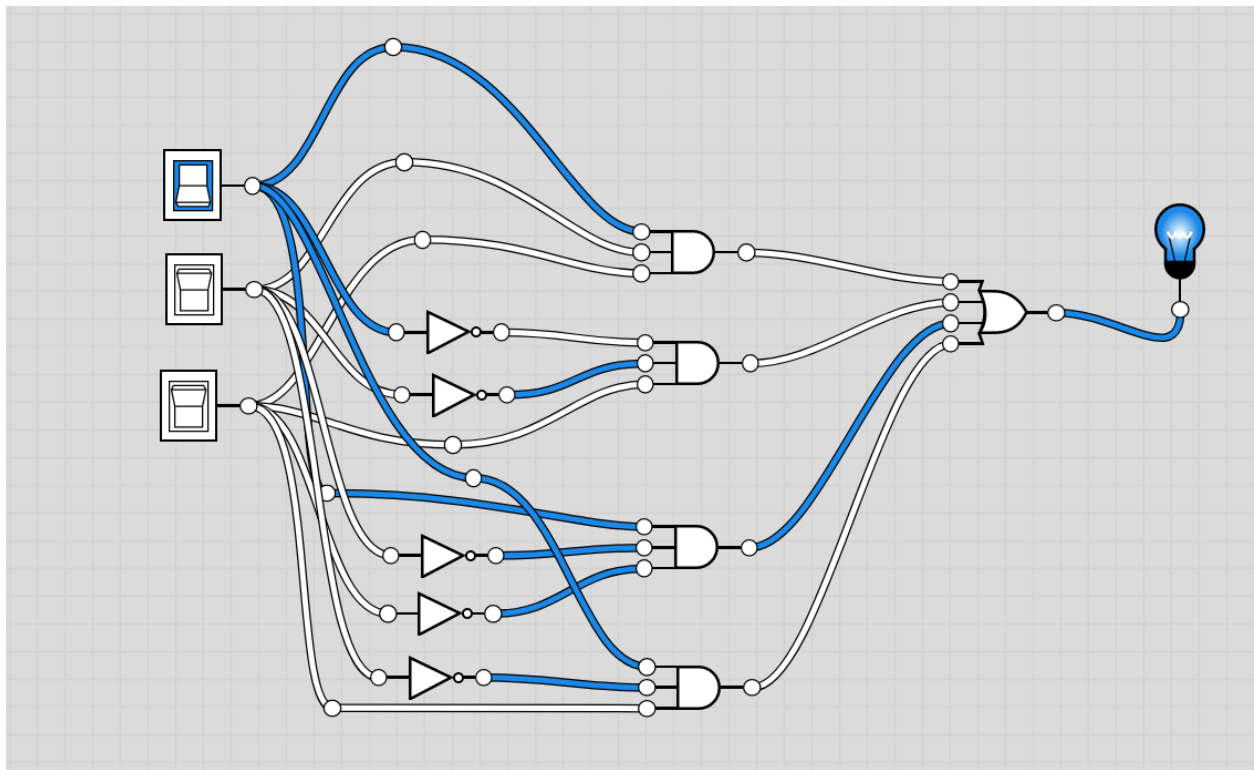QUESTION 1 COMPLETED

QUESTION: 2

PART 1:

CIRCUIT DIAGRAM:

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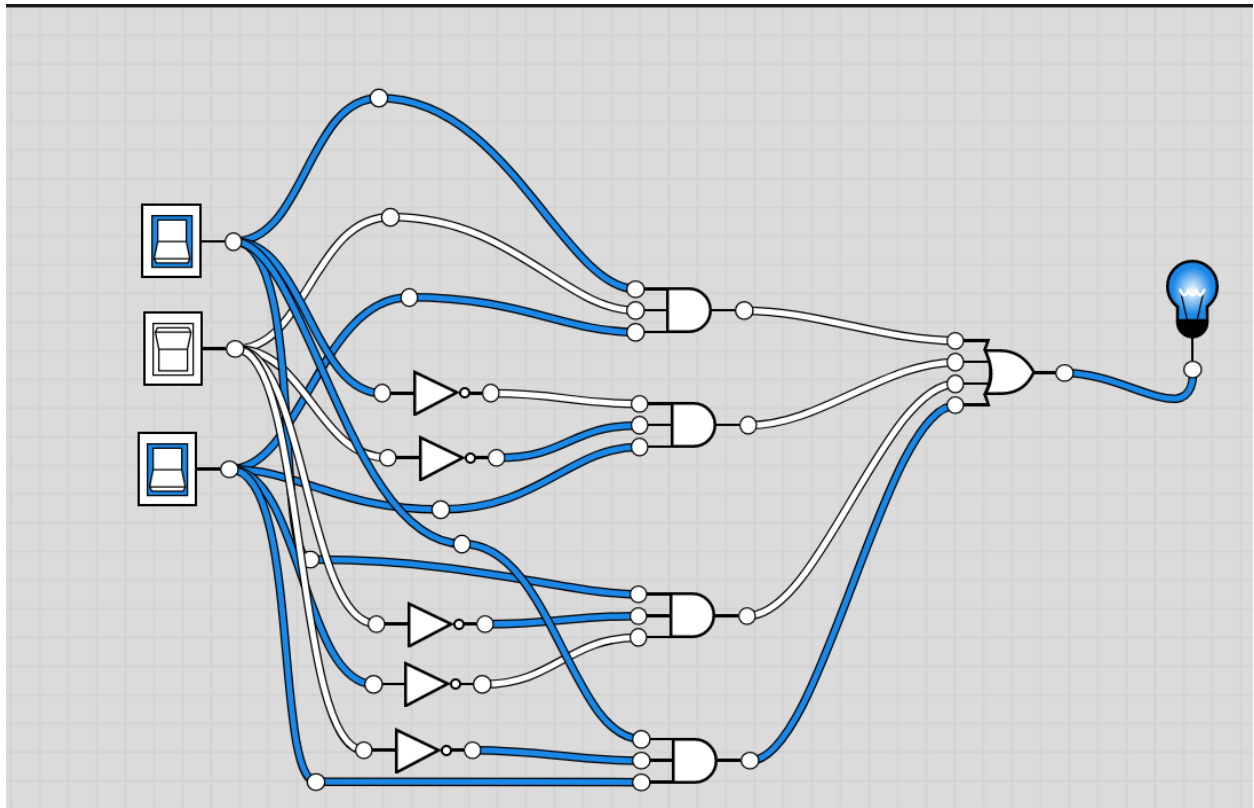
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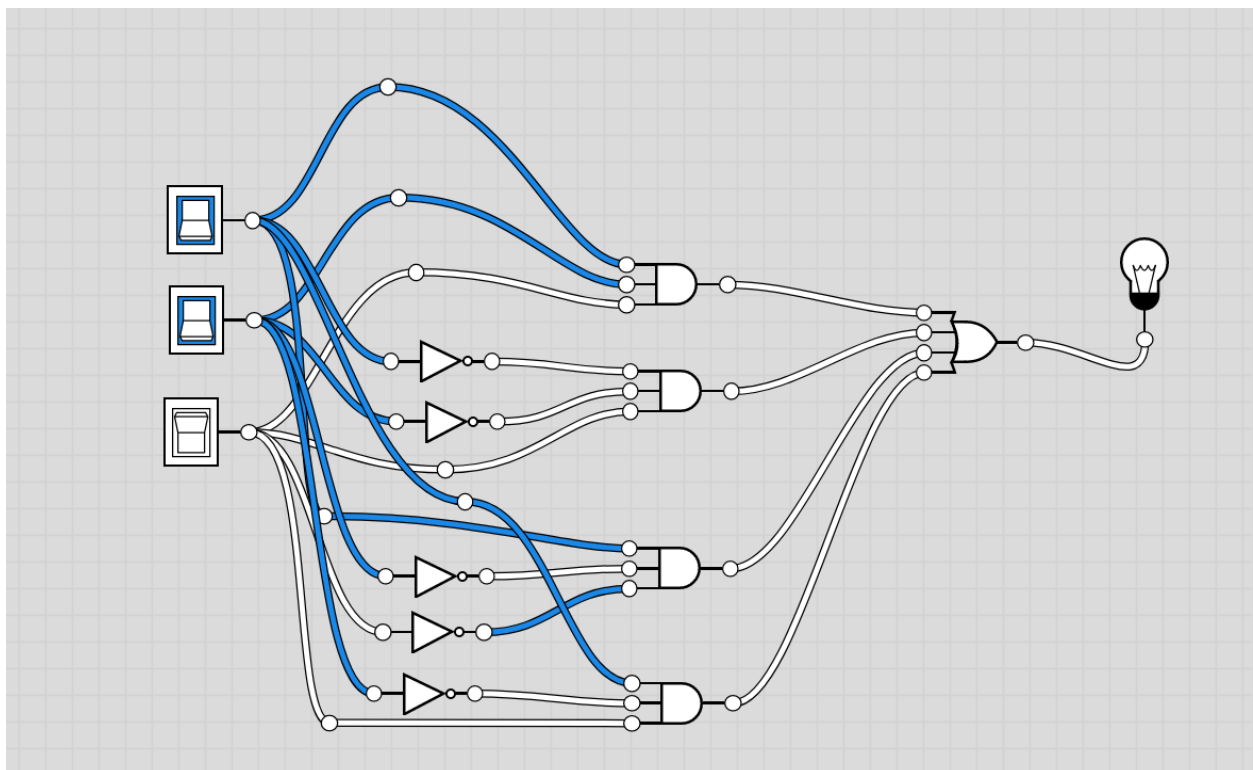
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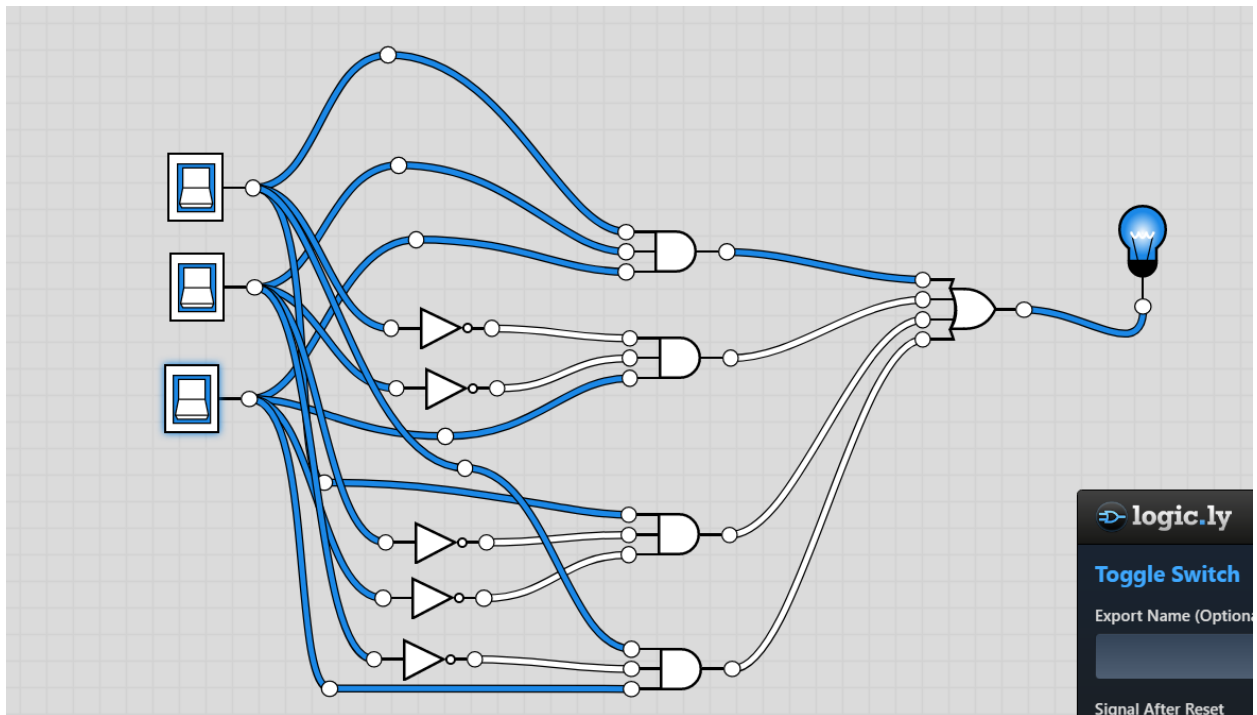
A	B	C	R
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	0
1	1	1	1

Part 2:

Circuit Diagram:

00
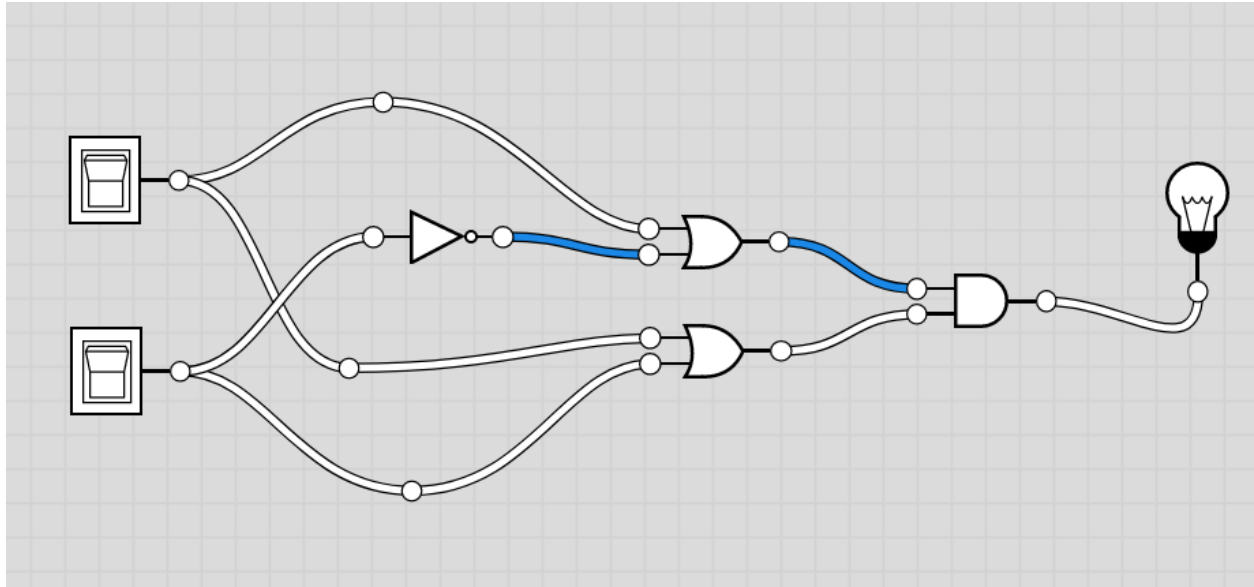
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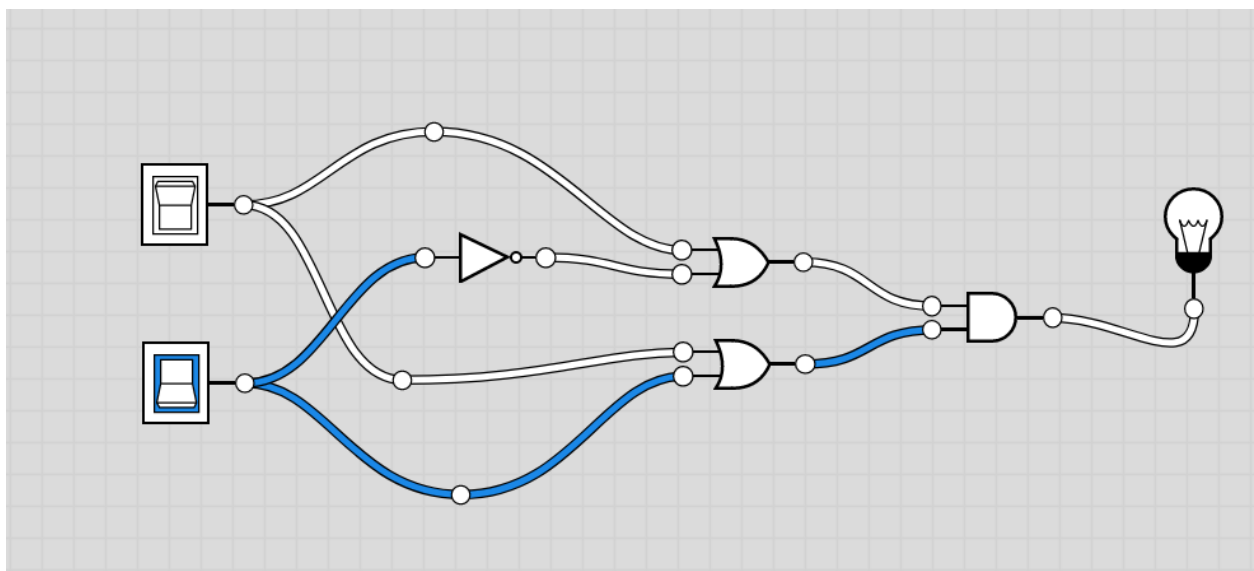
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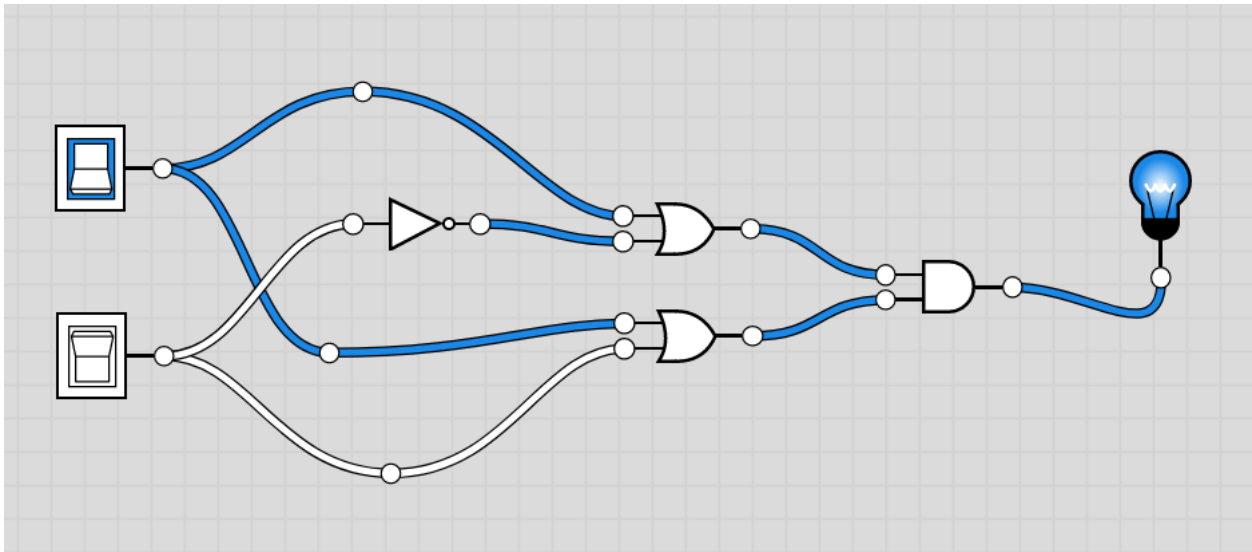
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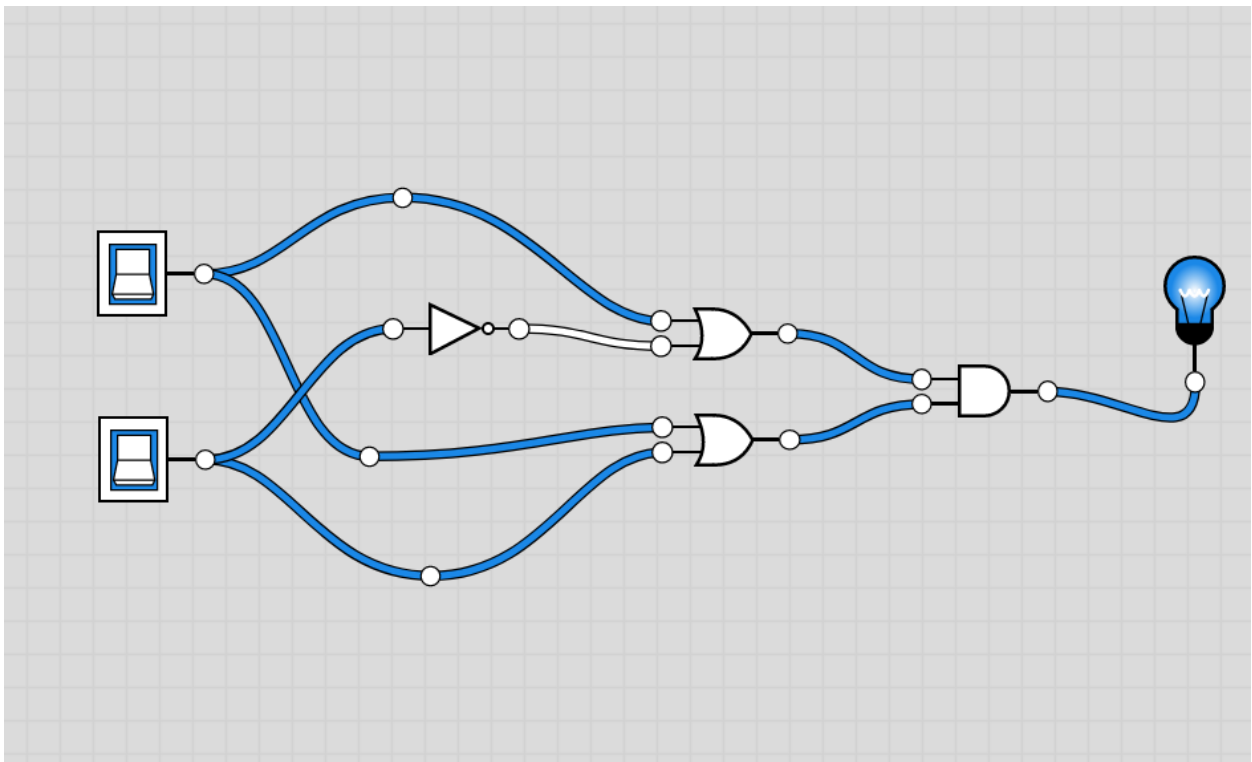
Truth Table:

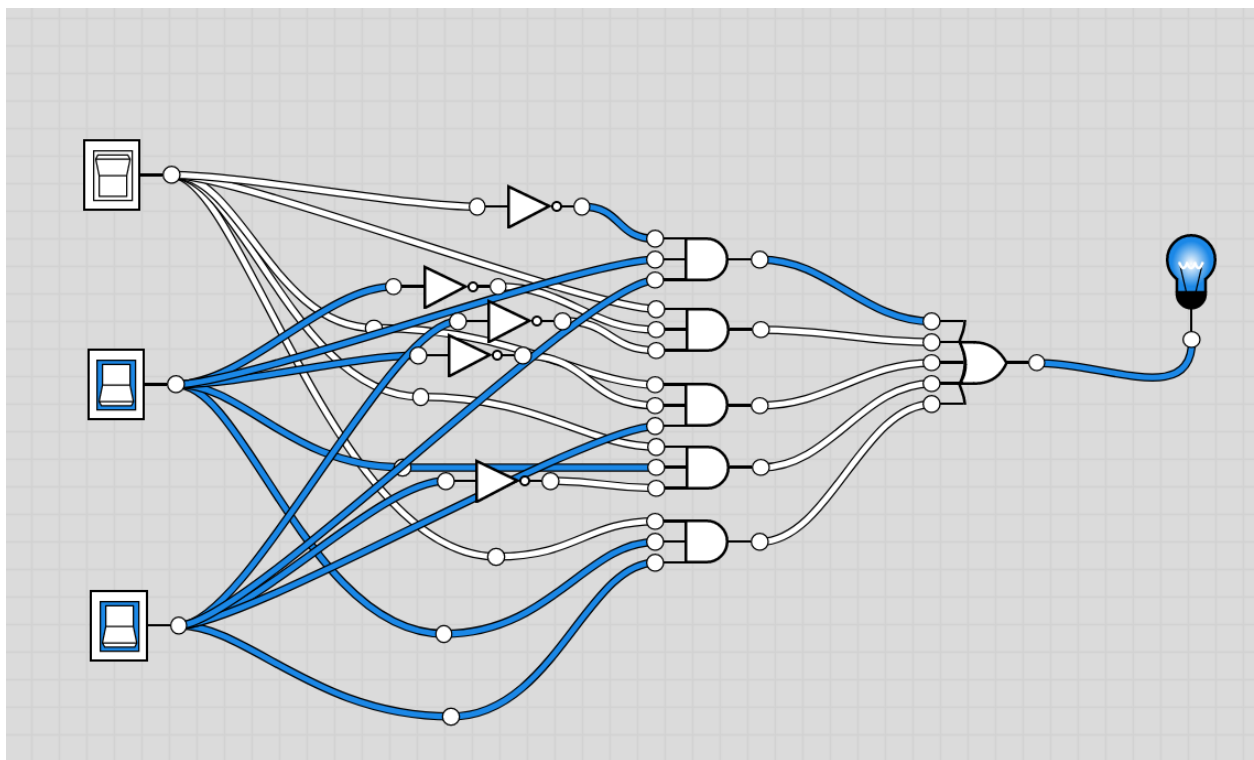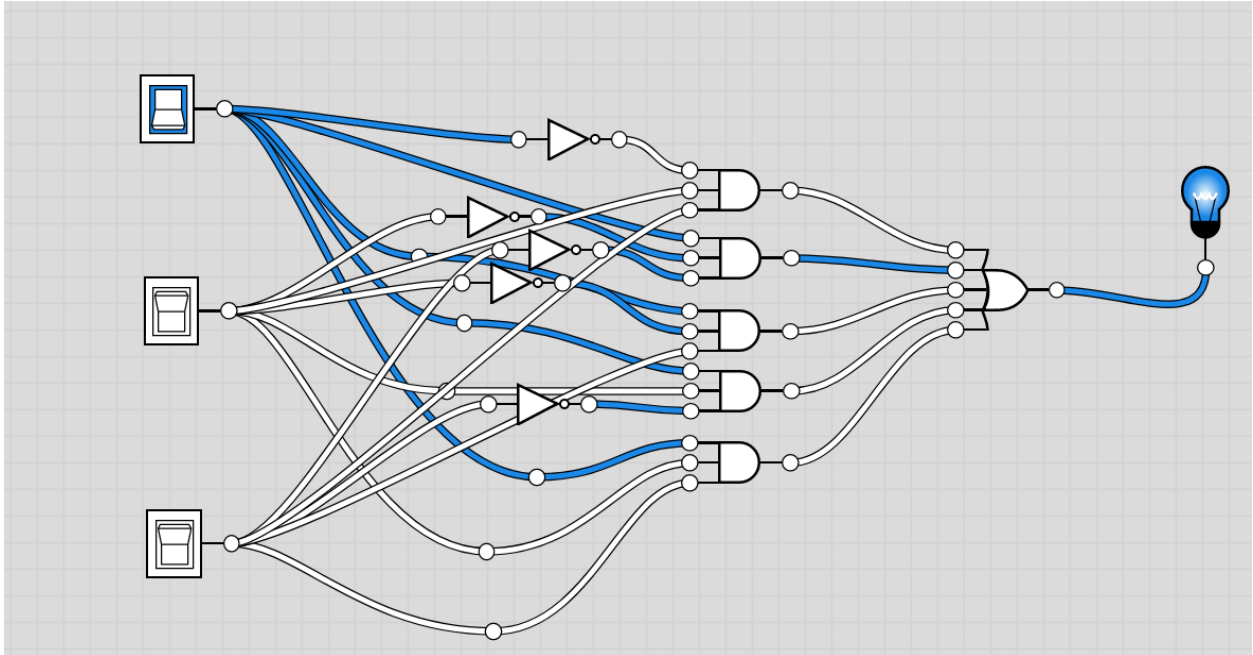| A	B	R
0	0	0
0	1	0
1	0	1
1	1	1

Question 2 Completed

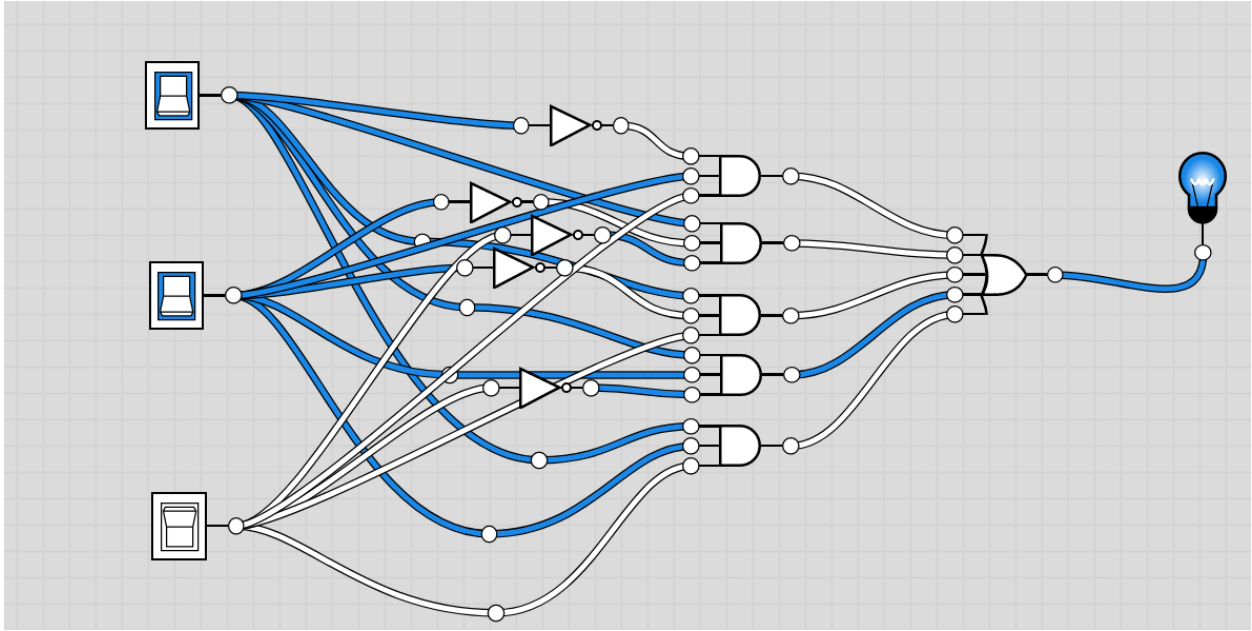Question 3:

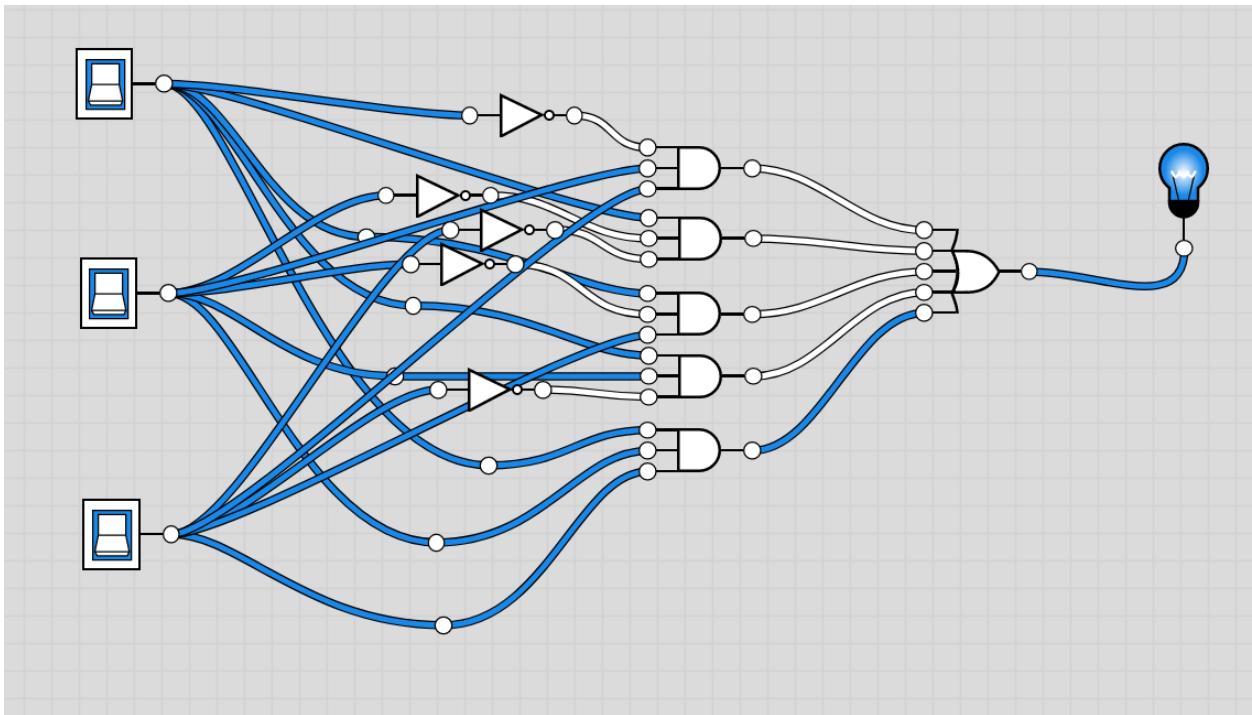Expression Using SOP:

A'BC+AB'C'+AB'C+ABC'+ABC
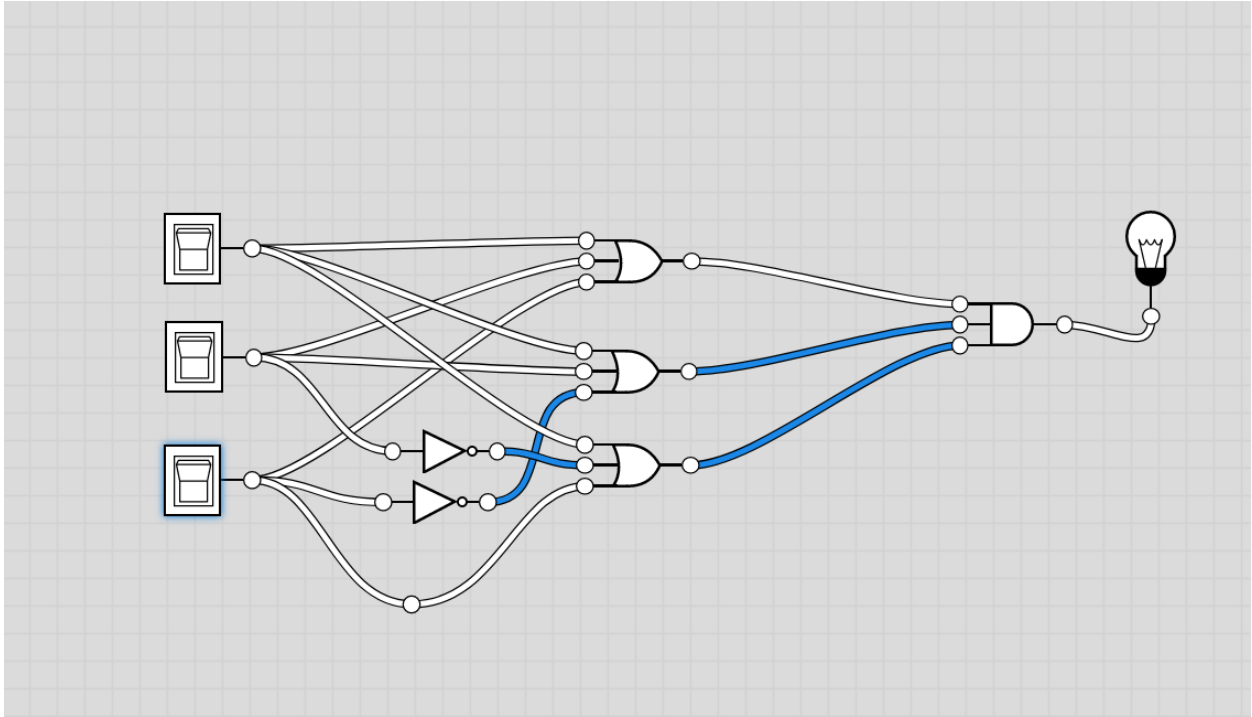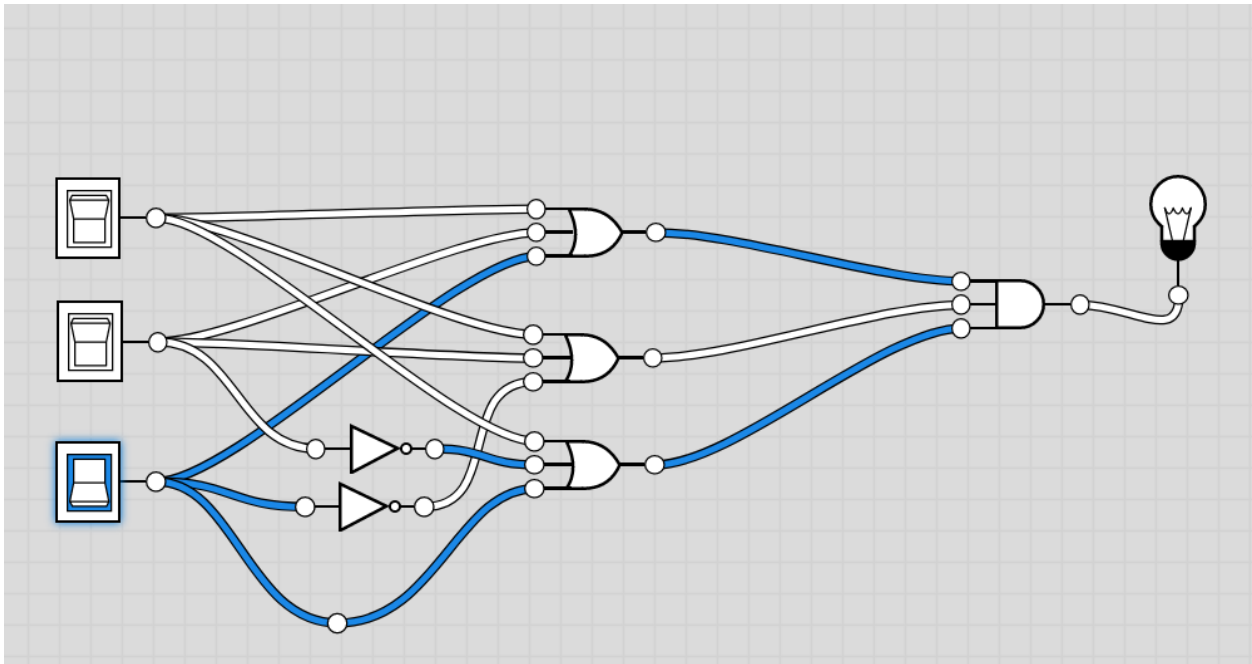
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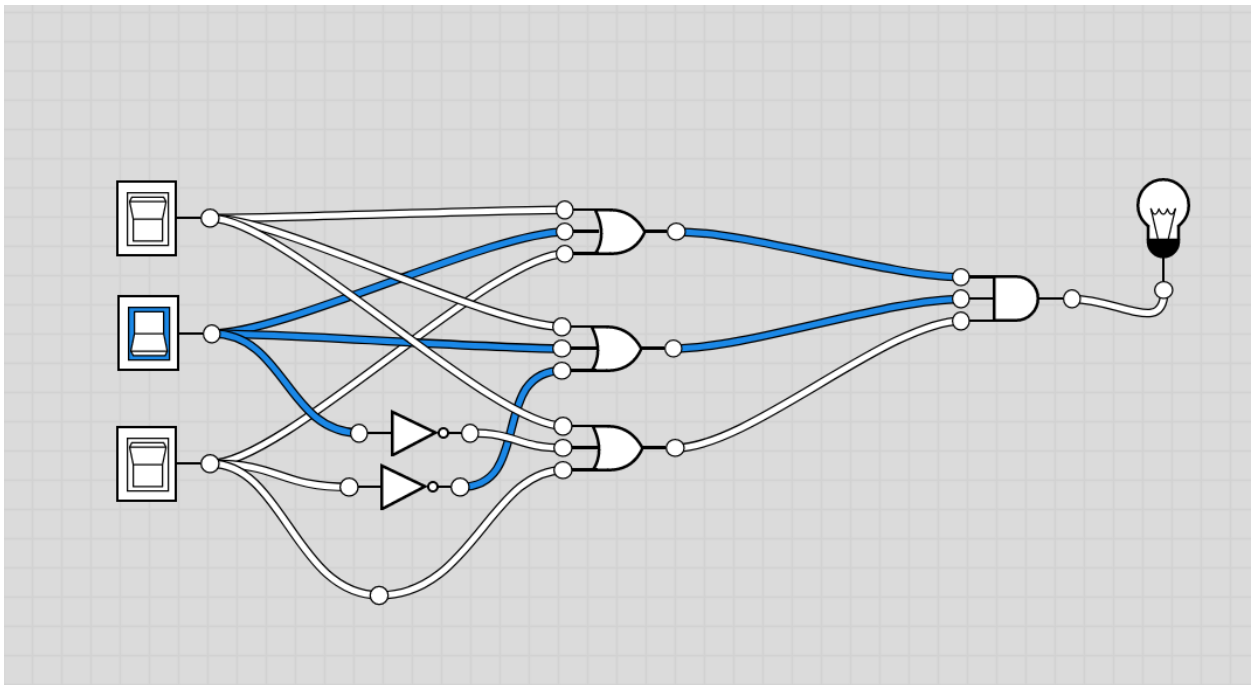101
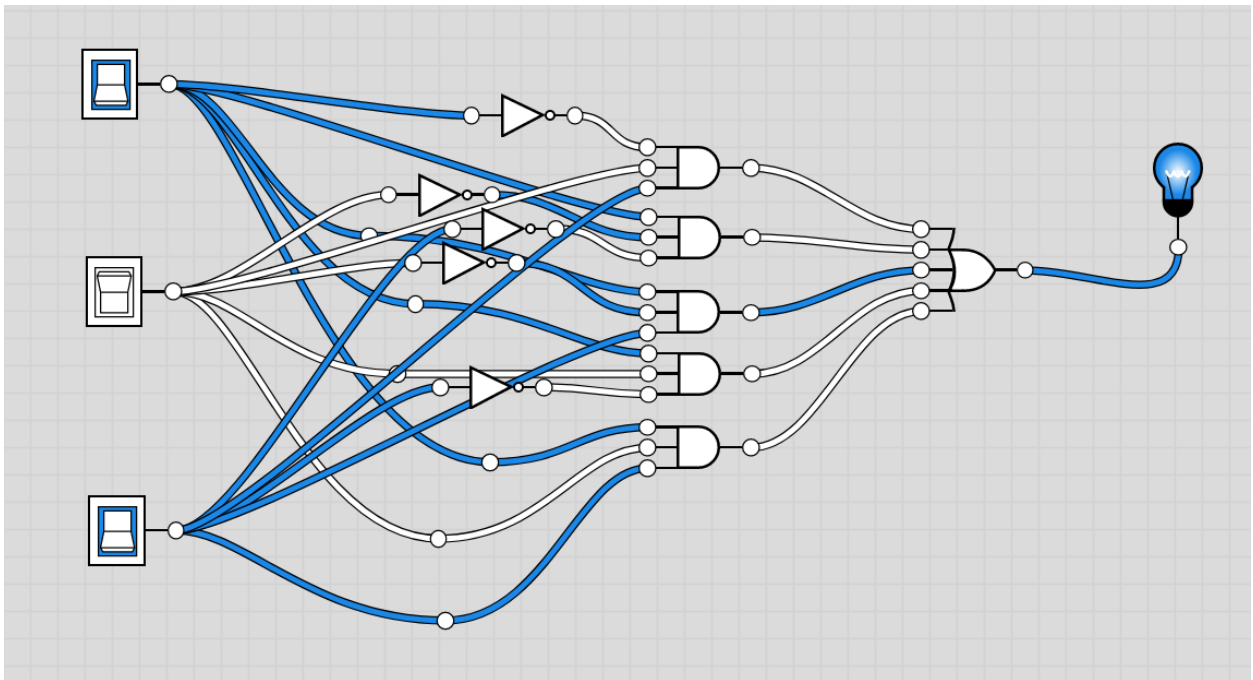
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EXPRESSION OF POS:

(A+B+C). (A+B+C'). (A+B'+C)

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QUESTION 3 COMPLETED

Question:1