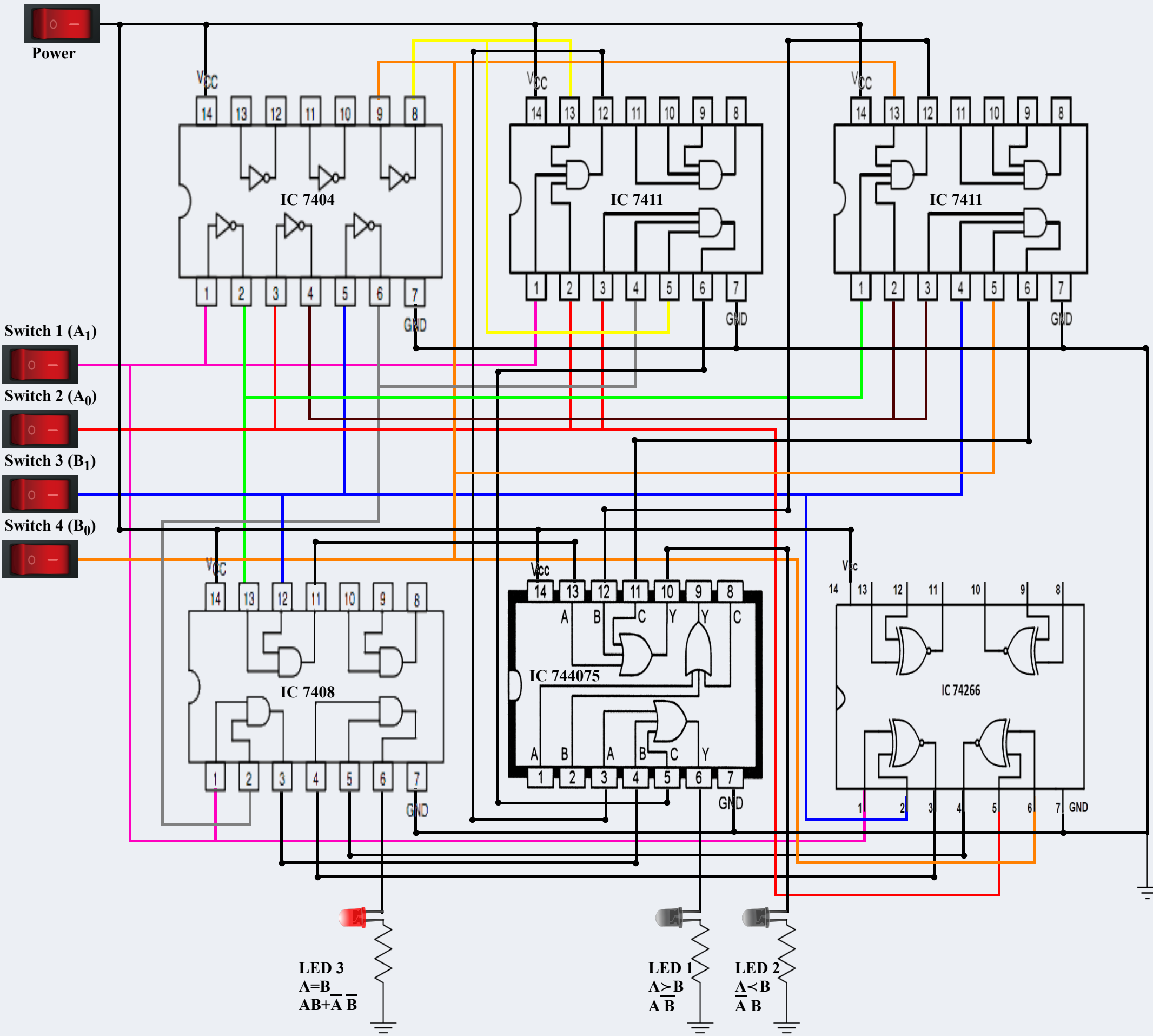


Instructions

Construction of 2-Bit Comparator and verification of its operation



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TRUTH TABLE

Serial No.	A <sub>1</sub>	A <sub>0</sub>	B <sub>1</sub>	B <sub>0</sub>	A>B	A<B	A=B
1	0	0	0	0	0	0	1
2	0	0	0	1	0	1	0
3	0	0	1	0	0	1	0
4	0	0	1	1	0	1	0
5	0	1	0	0	1	0	0
6	0	1	0	1	0	0	1
7	0	1	1	0	0	1	0
8	0	1	1	1	0	1	0
9	1	0	0	0	1	0	0
10	1	0	0	1	1	0	0
11	1	0	1	0	0	0	1
12	1	0	1	1	0	1	0
13	1	1	0	0	1	0	0
14	1	1	0	1	1	0	0
15	1	1	1	0	1	0	0
16	1	1	1	1	0	0	1

COLOR OF INPUTS

Color	Inputs
<span style="color: magenta;">—</span>	A <sub>1</sub>
<span style="color: green;">—</span>	A <sub>1</sub> '
<span style="color: red;">—</span>	A <sub>0</sub>
<span style="color: brown;">—</span>	A <sub>0</sub> '
<span style="color: blue;">—</span>	B <sub>1</sub>
<span style="color: grey;">—</span>	B <sub>1</sub> '
<span style="color: orange;">—</span>	B <sub>0</sub>
<span style="color: yellow;">—</span>	B <sub>0</sub> '